ADDENDA ACKNOWLEDGMENT FORM

Addenda may be issued up to the date/time specified in the calendar on Page 2 of the solicitation.

RESPONDER'S NAME: Republic Services of Florida, Limited Partnership

The undersigned acknowledges receipt of the following addenda to the solicitation or acknowledgement that no addenda were issued:

Pre-Bid/Pre-Proposal Minutes

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: April 23, 2021

Addendum No. 1

Print Name of Representative: Jean-Pierre Turgot

Sign: 04/23/2021 Dated: April 23, 2021

Addendum No. 2

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: April 23, 2021

Addendum No. 3

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: April 23, 2021

Addendum No. 4

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: 04/23/2021

Addendum No. 5

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: 04/23/2021

No Addenda Were Issued for this Solicitation

Print Name of Representative: _____

Sign: _____ Dated: _____

RFP #21-03-404 - Solid Waste Services

****NOTE: THERE ARE A TOTAL OF FOUR (4) PRICING SHEET PAGES****

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (TIN):	65-0965470

RESIDENTIAL COLLECTION SERVICES - ITEM 1

Roll-out Cart Services - 2x Per Week

Description	Comments	Unit of Measure	Frequency	Price **WITHOUT** providing one-time $150,000 Lump Sum Payment for City Grapple Truck — Unit Price	Price **WITH** providing one-time $150,000 Lump Sum Payment for City Grapple Truck — Unit Price
Collection: The rates specified for collection service shall include the cost for collection and the cost of carts		EACH	Per Month Per Dwelling Unit	$ 9.15	$ 7.91
Disposal: The rates specified for the cost of disposal	Pass-through cost of Disposal	EACH	Per Month Per Dwelling Unit	$ 8.01	$ 8.01
Disposal: Recycling (One Time Per Week)	Pass-through cost of Disposal	EACH	Per Month Per Dwelling Unit	$ 1.02	$ 1.02
Collection: Recycling (One Time Per Week)		EACH	Per Month Per Dwelling Unit	$ 4.97	$ 6.08
Option 1: Bulk Waste Collection Service (Once Per Week)	No limit on size of bulk items	EACH	52 Times Per Year	$ 9.30	$ 9.30
Option 2: Bulk Waste Collection Service (Bi-Weekly)	No limit on size of bulk items	EACH	26 Times Per Year	$ 6.27	$ 6.27
Option 3: Bulk Waste Collection Service (Once Per Month)	No limit on size of bulk items	EACH	12 Times Per Year	$ 6.27	$ 6.27
Replacement Roll-out carts Solid Waste or Recycling		EACH		$ 65.00	$ 65.00
Optional: Additional Roll-out container collection Fee; 96 gallons		EACH	Per Month Per Dwelling Unit	$ 6.00	$ 6.00
Optional: Additional Roll-out carts Solid Waste or Recycling	To be billed and paid by Customer, not the City	EACH		$ 6.00	$ 6.00

Please identify any optional items below and the cost.

Description	Comments	Unit of Measure	Frequency	Unit Price	Unit Price
Residential - Bulk		YD	As needed	$ 45.00	$ 45.00
Commercial - Bulk		YD	As needed	$ 45.00	$ 45.00
Commercial - lock Bar install	one time install	EA	As needed	$ 75.00	$ 75.00
Commercial - lock / unlock	each pickup	EA	As needed	$ 2.70	$ 2.70
Commercial / Industrial Relocation		EA	As needed	$ 75.00	$ 75.00
Commercial - Extra Yardage	Extra yards above container	EA	As needed	$ 60.00	$ 60.00
Industrial - Dry Run/ Container blocked or empty		EA	As needed	$ 150.00	$ 150.00
Industrial - Liner for box		ES	As needed	$ 75.00	$ 75.00
Industrial - Washout for compactors		EA	As needed	$ 325.00	$ 325.00
				$ -	$ -

RFP #21-03-404 - Solid Waste Services

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (TIN):	65-0965470

COMMERCIAL AND MULTI-FAMILY SERVICES CONTAINER SERVICES - ITEM 2

Charges are per month and are billed directly to the customer

Container Size and Frequency

Description	1x/Week	2x/Week	3x/Week	4x/Week	5x/Week	6x/Week	7x/Week
Hand Pick-Up (1 Cubic Yard or less)							
Collection	$ 22.77	$ 45.54	$ 68.32	$ 91.09	$ 113.86	$ 136.63	$ 159.41
Disposal	$ 7.62	$ 15.24	$ 22.86	$ 30.48	$ 38.10	$ 45.72	$ 53.34
Monthly Maintenance Fee	$ 10.00	$ 10.00	$ 10.00	$ 10.00	$ 10.00	$ 10.00	$ 10.00
Total Cost	**$ 40.39**	**$ 70.78**	**$ 101.17**	**$ 131.57**	**$ 161.96**	**$ 192.35**	**$ 222.74**
1 Cubic Yard							
Collection	$ 59.07	$ 118.15	$ 177.22	$ 236.29	$ 295.36	$ 354.44	$ 413.51
Disposal	$ 9.92	$ 19.84	$ 29.76	$ 39.67	$ 49.59	$ 59.51	$ 69.43
Monthly Maintenance Fee	$ 11.00	$ 11.00	$ 11.00	$ 11.00	$ 11.00	$ 11.00	$ 11.00
Total Cost	**$ 79.99**	**$ 148.98**	**$ 217.97**	**$ 286.96**	**$ 355.95**	**$ 424.95**	**$ 493.94**
2 Cubic Yard							
Collection	$ 118.15	$ 236.29	$ 354.44	$ 472.58	$ 590.73	$ 708.87	$ 827.02
Disposal	$ 19.84	$ 39.67	$ 59.51	$ 79.35	$ 99.18	$ 119.02	$ 138.86
Monthly Maintenance Fee	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00
Total Cost	**$ 149.98**	**$ 287.96**	**$ 425.95**	**$ 563.93**	**$ 701.91**	**$ 839.89**	**$ 977.87**
2 Cubic Yard							
Collection							
Disposal		Duplicate					
Monthly Maintenance Fee							
Total Cost	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
3 Cubic Yard							
Collection	$ 177.22	$ 354.44	$ 531.65	$ 708.87	$ 886.09	$ 1,063.31	$ 1,240.52
Disposal	$ 29.76	$ 59.51	$ 89.27	$ 119.02	$ 148.78	$ 178.53	$ 208.29
Monthly Maintenance Fee	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00
Total Cost	**$ 220.97**	**$ 427.95**	**$ 634.92**	**$ 841.89**	**$ 1,048.86**	**$ 1,255.84**	**$ 1,462.81**
4 Cubic Yard							
Collection	$ 236.29	$ 472.58	$ 708.87	$ 945.16	$ 1,181.45	$ 1,417.74	$ 1,654.03
Disposal	$ 39.67	$ 79.35	$ 119.02	$ 158.69	$ 198.37	$ 238.04	$ 277.72
Monthly Maintenance Fee	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00
Total Cost	**$ 291.96**	**$ 567.93**	**$ 843.89**	**$ 1,119.86**	**$ 1,395.82**	**$ 1,671.78**	**$ 1,947.75**
6 Cubic Yard							
Collection	$ 354.44	$ 708.87	$ 1,063.31	$ 1,417.74	$ 1,772.18	$ 2,126.61	$ 2,481.05
Disposal	$ 59.51	$ 119.02	$ 178.53	$ 238.04	$ 297.55	$ 357.06	$ 416.57
Monthly Maintenance Fee	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00
Total Cost	**$ 431.95**	**$ 845.89**	**$ 1,259.84**	**$ 1,673.78**	**$ 2,087.73**	**$ 2,501.67**	**$ 2,915.62**
8 Cubic Yard							
Collection	$ 472.58	$ 945.16	$ 1,417.74	$ 1,890.32	$ 2,362.90	$ 2,835.48	$ 3,308.06
Disposal	$ 79.35	$ 158.69	$ 238.04	$ 317.39	$ 396.74	$ 476.08	$ 555.43
Monthly Maintenance Fee	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00
Total Cost	**$ 571.93**	**$ 1,123.86**	**$ 1,675.78**	**$ 2,227.71**	**$ 2,779.64**	**$ 3,331.57**	**$ 3,883.49**

RFP #21-03-404 - Solid Waste Services

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (TIN):	65-0965470

COMPACTOR SERVICES - ITEM 3

Charges are per month and are billed directly to the customer

Container Size and Frequency

Description	1x/Week	2x/Week	3x/Week	4x/Week	5x/Week	6x/Week	7x/Week
1 Cubic Yard							
Collection	$ 59.07	$ 118.15	$ 177.22	$ 236.29	$ 295.36	$ 354.44	$ 413.51
Disposal	$ 29.76	$ 59.51	$ 89.27	$ 119.02	$ 148.78	$ 178.53	$ 208.29
Monthly Maintenance Fee	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00
Total Cost	**$ 100.83**	**$ 189.66**	**$ 278.48**	**$ 367.31**	**$ 456.14**	**$ 544.97**	**$ 633.79**
2 Cubic Yard							
Collection	$ 118.15	$ 236.29	$ 354.44	$ 472.58	$ 590.73	$ 708.87	$ 827.02
Disposal	$ 59.51	$ 119.02	$ 178.53	$ 238.04	$ 297.55	$ 357.06	$ 416.57
Monthly Maintenance Fee	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00
Total Cost	**$ 191.66**	**$ 369.31**	**$ 546.97**	**$ 724.62**	**$ 902.28**	**$ 1,079.93**	**$ 1,257.59**
2 Cubic Yard							
Collection							
Disposal		Duplicate					
Monthly Maintenance Fee							
Total Cost	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
3 Cubic Yard							
Collection	$ 177.22	$ 354.44	$ 531.65	$ 708.87	$ 886.09	$ 1,063.31	$ 1,240.52
Disposal	$ 89.27	$ 178.53	$ 267.80	$ 357.06	$ 446.33	$ 535.59	$ 624.86
Monthly Maintenance Fee	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00
Total Cost	**$ 282.48**	**$ 548.97**	**$ 815.45**	**$ 1,081.93**	**$ 1,348.42**	**$ 1,614.90**	**$ 1,881.38**
4 Cubic Yard							
Collection	$ 236.29	$ 472.58	$ 708.87	$ 945.16	$ 1,181.45	$ 1,417.74	$ 1,654.03
Disposal	$ 119.02	$ 238.04	$ 357.06	$ 476.08	$ 595.11	$ 714.13	$ 833.15
Monthly Maintenance Fee	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00
Total Cost	**$ 373.31**	**$ 728.62**	**$ 1,083.93**	**$ 1,439.24**	**$ 1,794.56**	**$ 2,149.87**	**$ 2,505.18**
6 Cubic Yard							
Collection	$ 354.44	$ 708.87	$ 1,063.31	$ 1,417.74	$ 1,772.18	$ 2,126.61	$ 2,481.05
Disposal	$ 178.53	$ 357.06	$ 535.59	$ 714.13	$ 892.66	$ 1,071.19	$ 1,249.72
Monthly Maintenance Fee	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00
Total Cost	**$ 552.97**	**$ 1,085.93**	**$ 1,618.90**	**$ 2,151.87**	**$ 2,684.83**	**$ 3,217.80**	**$ 3,750.77**
8 Cubic Yard							
Collection	$ 472.58	$ 945.16	$ 1,417.74	$ 1,890.32	$ 2,362.90	$ 2,835.48	$ 3,308.06
Disposal	$ 238.04	$ 476.08	$ 714.13	$ 952.17	$ 1,190.21	$ 1,428.25	$ 1,666.29
Monthly Maintenance Fee	$ 22.00	$ 22.00	$ 22.00	$ 22.00	$ 22.00	$ 22.00	$ 22.00
Total Cost	**$ 732.62**	**$ 1,443.24**	**$ 2,153.87**	**$ 2,864.49**	**$ 3,575.11**	**$ 4,285.73**	**$ 4,996.36**

RFP #21-03-404 - Solid Waste Services

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (	65-0965470

PULL SERVICES - ITEM 4

Charges are per month and are billed directly to the customer

Description	10 Cubic Yard	15 Cubic Yard	20 Cubic Yard	30 Cubic Yard	40 Cubic Yard
Pick-up & Haul	$ 403.00	$ 428.00	$ 453.00	$ 503.00	$ 553.00
Disposal	$ 186.28	$ 209.56	$ 232.85	$ 279.42	$ 325.99
Total Cost	**$ 589.28**	**$ 637.56**	**$ 685.85**	**$ 782.42**	**$ 878.99**

Delivery	$ 175.00	$ 175.00	$ 175.00	$ 175.00	$ 175.00

Maintenance Fee (per day) {Less than 30 days}	$ 3.00	$ 3.00	$ 3.00	$ 3.00	$ 3.00

Maintenance Fee (per day) {More than 30 days}	$ 3.25	$ 3.25	$ 3.25	$ 3.25	$ 3.25

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.

2. Identify the status of the covered Federal action.

3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.

4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.

5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.

6. Enter the name of the federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.

7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.

8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitations for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Included prefixes, e.g., "RFP-19-90-001."

9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.

10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.

    (b) Enter the full names of the individual(s) performing services, and include full address if different from 10(a). Enter Last Name, First Name, and Middle Initial (MI).

11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503

BYRD ANTI-LOBBYING AMENDMENT CERTIFICATION

(To be submitted with each proposal or offer exceeding $100,000)

The undersigned, [Company] Republic Services of Florida, Limited Partnership certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The Contractor, [Company] Republic Services of Florida, Limited Partnership, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

04/16/2021

Signature of Contractor's Authorized Official

Jean-Pierre Turgot General Manager

Name and Title of Contractor's Authorized Official

April 16, 2021

Date

Republic Services does not lobby any agency for any specific contract activities. We are in compliance with the Bryd provisions.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
07/11/2020

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 have ADDITIONAL INSURED provisions or 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
CANNON COCHRAN MANAGEMENT SERVICES, INC.
17015 N. SCOTTSDALE RD
SCOTTSDALE, AZ 85255

CONTACT NAME:
PHONE (A/C No.Ext): | **FAX (A/C No.Ext):**
E-MAIL ADDRESS:certificateteam@ccmsi.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: ACE American Insurance Co.	22667
INSURER B: Indemnity Insurance Company of NA	43575
INSURER C: ACE Fire Underwriters	20702
INSURER D: Illinois Union Insurance Company	27960
INSURER E: ACE Property and Casualty Insurance Co	20699
INSURER F:	

INSURED
REPUBLIC SERVICES, INC.
18500 N. ALLIED WAY
PHOENIX, AZ 85054

COVERAGES **CERTIFICATE NUMBER: 1743258** **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 INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [ ] PROJECT [ ] LOC [ ] OTHER:			HDO G71450892	06/30/2020	06/30/2021	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS -COMP/OP AGG	$ 5,000,000 $ 5,000,000 $ 5,000,000 $ 5,000,000 $ 5,000,000
A	AUTOMOBILE LIABILITY [X] ANY AUTO [X] OWNED AUTOS ONLY [X] SCHEDULED AUTOS [X] HIRED AUTOS ONLY [X] NON-OWNED AUTOS ONLY			ISA H25305425	06/30/2020	06/30/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY(Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 5,000,000
E	[X] UMBRELLA LIAB [X] OCCUR EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $			G46782148-004	06/30/2020	06/30/2021	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
B A C A D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N N/A ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [N] (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			WLR C67458424 AOS WLR C67458382 AZ/CA/MA/OR SCF C67458461 - WI WCU C67458503 - OH XS TNS C66948560 - TX NSXS	06/30/2020 06/30/2020 06/30/2020 06/30/2020 06/30/2020	06/30/2021 06/30/2021 06/30/2021 06/30/2021 06/30/2021	[X] PER STATUTE [ ] OTHER E.L. EACH ACCIDENT E.L. DISEASE -EA EMPLOYEE E.L. DISEASE -POLICY LIMIT	 $ 3,000,000 $ 3,000,000 $ 3,000,000
	Contractor's Pollution Liability:			See page 2 for details	06/30/2020	06/30/2021		

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

EVIDENCE OF COVERAGE - FOR USE FOR REPUBLIC SERVICES, INC. AND ALL ITS SUBSIDIARIES

EVIDENCE OF COVERAGE

CERTIFICATE HOLDER

EVIDENCE OF COVERAGE

,
United States

CANCELLATION

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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AGENCY CUSTOMER ID: _____

LOC #: _____

ADDITIONAL REMARKS SCHEDULE

AGENCY		NAMED INSURED
		REPUBLIC SERVICES, INC. 18500 N. ALLIED WAY PHOENIX, AZ 85054
POLICY NUMBER See First Page		
CARRIER See First Page	NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS **CERTIFICATE NUMBER: 1743258**

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM.

FORM NUMBER: 25 **FORM TITLE:** CERTIFICATE OF LIABILITY INSURANCE

The following provisions apply when required by written contract. As used below, the term certificate holder also includes any person or organization that the insured has become obligated to include as a result of an executed contract or agreement.

GENERAL LIABILITY:
Certificate holder is Additional Insured including on-going and completed operations when required by written contract.
Coverage is primary and non-contributory when required by written contract.
Waiver of Subrogation in favor of the certificate holder is included when required by written contract.

AUTO LIABILITY:
Certificate holder is Additional Insured when required by written contract.
Coverage is primary and non-contributory when required by written contract.
Waiver of Subrogation in favor of the certificate holder is included when required by written contract.

WORKERS COMPENSATION AND EMPLOYERS LIABILITY:
Waiver of Subrogation in favor of the certificate holder is included when required by written contract where allowed by state law.

Stop gap coverage for ND, WA and WY is covered under policy no. WLR C67458424 and stop gap coverage for OH is covered under policy no. WCU C67458503, as noted on page 1 of this certificate.

TEXAS EXCESS INDEMNITY AND EMPLOYERS LIABILITY:
Insured is a registered non-subscriber to the Texas Workers Compensation Act. Insured has filed an approved Indemnity Plan with the Texas Department of Insurance which offers an alternative in benefits to employees rather than the traditional Workers Compensation Insurance in Texas. The excess policy (#TNS C66948560) shown on this certificate provides excess Indemnity and Employers Liability coverage for the approved Indemnity Plan.

Contractual Liability is included in the General Liability and Automobile Liability coverage forms. The General Liability and Automobile Liability policies do not contain endorsements excluding Contractual Liability.

Separation of Insured (Cross Liability) coverage is provided to the Additional Insured, when required by written contract, per the Conditions of the Commercial General Liability Coverage form and the Automobile Liability Coverage form.

The Umbrella/Excess Liability policy is follow form over the General Liability, Automobile Liability and Employer's Liability policies shown on this certificate.

Insurer Affording Pollution Coverage - Tokio Marine Specialty Insurance Co. (NAIC # 23850) Policy No. PPK2145182

Contracting Operations Environmental Liability - $10,000,000 Per Contamination Incident/$10,000,000 General Aggregate
Professional Liability - $10,000,000 Per Incident/$10,000,000 General Aggregate

EVIDENCE OF COVERAGE

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Republic Services
Municipal Contracts - Florida

Republic Services has an extensive background in providing municipal waste and recycling collection services with over 2,700 contracts nationwide. Listed below are some of the great partnerships that we have manage in Florida.

St. Johns County	Rate:	**$13.53**	Start Date:	**6/1/2014**	Expiration Date:	**7/31/2024**	
Number of Homes Serviced:	**61,342**	Garbage Tons/Year:	**59,011**	Recycle Tons/Year:	**17,943**		
Main Contact:	**Greg Caldwell-Assistant Public Works Director**	gcaldwell@sjcfl.us		Phone No.:	**(904) 209-0132**		
Address:	**3005 Allen Nease Rd.**	City:	**Elkson**	St:	**FL**	Zip:	**32033**
Services are provided with Rear Load Trucks. Commercial and Industrial services are provided to businesses through an open competitive market.							

Republic Services
Municipal Contracts - Florida

Republic Services has an extensive background in providing municipal waste and recycling collection services with over 2,400 contracts nationwide. Listed below are some of the great partnerships that we manage in Florida.

City of Sunrise	Rate:	**$14.71**	Start Date:	**7/1/1996**	Expiration Date:	**9/30/2024**					
Number of Homes Serviced:	**39,740**	Garbage Tons/Year:	**39,263**	Recycle Tons/Year:	**8,783**						
Main Contact:	**Antonio Thompson- Solid Waste Coordinator**	athompson@sunrisefl.gov	Phone No.:	**954-577-1135**							
Address:	**10770 W. Oakland Park Blvd**	City:	**Sunrise**	St:	**FL**	Zip:	**33351**				
Services are provided with Rear Load Trucks. An additional 19,132 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided seven days per week. Republic has serviced the City for 40 plus years.											

St. Johns County	Rate:	**$13.53**	Start Date:	**6/1/2014**	Expiration Date:	**7/31/2024**					
Number of Homes Serviced:	**61,342**	Garbage Tons/Year:	**59,011**	Recycle Tons/Year:	**17,943**						
Main Contact:	**Greg Caldwell-Assistant Public Works Director**	gcaldwell@sjcfl.us	Phone No.:	**(904) 209-0132**							
Address:	**3005 Allen Nease Rd.**	City:	**Elkson**	St:	**FL**	Zip:	**32033**				
Services are provided with Rear Load Trucks. Commercial and Industrial services are provided to businesses through an open competitive market.											

City of Lake Wales	Rate:	**$15.87**	Start Date:	**7/1/2001**	Expiration Date:	**9/30/2024**					
Number of Homes Serviced:	**5,167**	Garbage Tons/Year:	**5,105**	Recycle Tons/Year:	**1,142**						
Main Contact:	**James Slaton - City Manager**	jslaton@lakewalesfl.gov	Phone No.:	**(954) 746-3233**							
Address:	**201 W. Central**	City:	**Lake Wales**	St:	**FL**	Zip:	**33853**				
Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided seven days per week.											

Republic Services
Municipal Contracts - Florida

City of Coconut Creek	Rate:	**$16.15**	Start Date:	**2/1/1995**	Expiration Date:	**9/30/2026**	
Number of Homes Serviced:	**25,122**	Garbage Tons/Year:	**24,821**	Recycle Tons/Year:	**5,552**		
Main Contact:	**Alex Tergis Assistant Public Works Director**		atergis@coconutcreek.net	Phone No.:	**(954) 545-6623**		
Address:	**4800 Copans Road**	City:	**Coconut Creek**	St:	**FL**	Zip:	**33064**

Services are provided with Automated Side Load Trucks. An additional 11,059 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week.

City of Weston	Rate:	**$18.51**	Start Date:	**10/1/2012**	Expiration Date:	**3/31/2024**	
Number of Homes Serviced:	**25,541**	Garbage Tons/Year:	**25,235**	Recycle Tons/Year:	**5,645**		
Main Contact:	**Karl Thompson - Assistant City Manager**		**kthompson@westonfl.org**	Phone No.:	**954 285-2000**		
Address:	**2599 S. Post Rd.**	City:	**Weston**	St:	**FL**	Zip:	**33332**

Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week.

City of Frostproof	Rate:	**$15.48**	Start Date:	**7/1/2006**	Expiration Date:	**6/30/2024**	
Number of Homes Serviced:	**987**	Garbage Tons/Year:	**975**	Recycle Tons/Year:	**218**		
Main Contact:	**Nicole McDowell - City Manager**		NMcdowell@cityoffrostproof.com	Phone No.:	**(863) 635-7832**		
Address:	**111 West First St.**	City:	**Frostproof**	St:	**FL**	Zip:	**33843**

Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week.

Republic Services
Municipal Contracts - Florida

City of Haines City	Rate:	**$14.41**	Start Date:	**1/1/2006**	Expiration Date:	**12/31/2023**	
Number of Homes Serviced:	**9,150**	Garbage Tons/Year:	**9,040**	Recycle Tons/Year:	**2,022**		
Main Contact:	**Deric Feacher - City Manager**	**dfeacher@hainescity.com**	Phone No.:	**(863) 421-3777**			
Address:	**620 E. Main St.**	City:	**Haines City**	St:	**FL**	Zip:	**33844**

Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Republic has serviced the City for 40 years.

City of Oviedo	Rate:	**$17.66**	Start Date:	**10/1/2008**	Expiration Date:	**9/30/2020**	
Number of Homes Serviced:	**11,173**	Garbage Tons/Year:	**11,039**	Recycle Tons/Year:	**2,469**		
Main Contact:	**Joe Grusauskas - Solid Waste Director**	**jgrusauskas@cityofoviedo.net**	Phone No.:	**(407) 971-5644**			
Address:	**400 Alexandria Blvd**	City:	**Oviedo**	St:	**FL**	Zip:	**32765**

Services are provided with Automated Side Load Trucks. Commercial and Industrial services are provided to businesses through an open competitive market.

Hilllsborough County, FL	Rate:	**z1:$9.71 z3:$13.41**	Start Date:	**10/1/2013**	Expiration Date:	**1/31/2022**	
Number of Homes Serviced:	**110,000**	Garbage Tons/Year:	**85,789**	Recycle Tons/Year:	**27,591**		
Main Contact:	**Kim Byer-Director of Solid Waste**	**byerk@hillsboroughcounty.org**	Phone No.:	**813-272-5680**			
Address:	**332 N. Falkenburg Rd**	City:	**Brandon**	St:	**FL**	Zip:	**33619**

Service residential customers with automated side load trucks in 2 of 5 zones. Commerical is franchised to the 3 residential haulers and industrial is open market.

Republic Services

Municipal Contracts - Florida

City of Gulf Breeze	Rate:	**$15.71**	Start Date:	**2/1/2018**	Expiration Date:	**1/31/2023**	
Number of Homes Serviced:	**2,134**	Garbage Tons/Year:	**644**	Recycle Tons/Year:	**99**		
Main Contact:	**Samantha Abell-City Manager**		sabell@gulfbreezefl.gov	Phone No.:	**850-203-6033**		
Address:	**P.O. Box 640**	City:	**Gulf Breeze**	St:	**FL**	Zip:	**32562**

Services we provide are residential MSW, Recycling, and YW cart containerized serviced with ASL trucks. Commercial and Industrial are included in executive franchise.

Republic Services
Municipal Contracts - Florida

Republic Services
Municipal Contracts - Florida

Republic Services
Municipal Contracts - Florida

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.

2. Identify the status of the covered Federal action.

3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.

4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.

5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.

6. Enter the name of the federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.

7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.

8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitations for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Included prefixes, e.g., "RFP-19-90-001."

9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.

10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.

    (b) Enter the full names of the individual(s) performing services, and include full address if different from 10(a). Enter Last Name, First Name, and Middle Initial (MI).

11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503

BYRD ANTI-LOBBYING AMENDMENT CERTIFICATION

(To be submitted with each proposal or offer exceeding $100,000)

The undersigned, [Company] Republic Services of Florida, Limited Partnership certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The Contractor, [Company] Republic Services of Florida, Limited Partnership, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

04/16/2021

Signature of Contractor's Authorized Official

Jean-Pierre Turgot General Manager

Name and Title of Contractor's Authorized Official

April 16, 2021

Date

Republic Services does not lobby any agency for any specific contract activities. We are in compliance with the Bryd provisions.

Not Applicable

Approved by OMB
0348-0046

Disclosure of Lobbying Activities

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
(See reverse for public burden disclosure)

1. **Type of Federal Action:** a. contract ____ b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	2. **Status of Federal Action:** a. offer/application _____ b. initial award c. post-award	3. **Report Type:** a. initial filing _____ b. material change **For material change only:** Year _____ quarter _____ Date of last report_____

4. **Name and Address of Reporting Entity:** ____ Prime _____ Subawardee Tier_____, if Known: **Congressional District,** *if known*:	5. **If Reporting Entity in No. 4 is Subawardee,** Enter Name and Address of Prime: **Congressional District,** *if known*:
6. **Federal Department/Agency:**	7. **Federal Program Name/Description:** CFDA Number, *if applicable*: _____
8. **Federal Action Number,** *if known:*	9. **Award Amount,** *if known:* $
10. a. **Name and Address of Lobbying Registrant** *(if individual, last name, first name, MI):*	b. **Individuals Performing Services** *(including address if different from No. 10a)* *(last name, first name, MI):*
11. **Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.**	**Signature:** 04/16/2021 **Print Name:** Jean-Pierre Turgot **Title:** General Manager **Telephone No.:** 954-327-9555 **Date:** 4/16/2021
Federal Use Only	**Authorized for Local Reproduction** **Standard Form - LLL (Rev. 7-97)**

CITY OF NORTH LAUDERDALE

E-VERIFY FORM UNDER SECTION 448.095, FLORIDA STATUTES

Project Name: Solid Waste Services
Project No.: #21-03-404

DEFINITIONS:

*"**Contractor**"* means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration. "Contractor" includes, but is not limited to, a vendor or consultant.
*"**Subcontractor**"* means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.
"**E-Verify system**" means an Internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.

Effective January 1, 2021, Contractors, shall register with and use the E-verify system in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

a) All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and

b) All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the contract with the City of North Lauderdale. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with the City of North Lauderdale; and

c) Should vendor become the successful Contractor awarded for the above-named project, by entering into the contract, the Contractor shall comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility," as amended from time to time. This includes, but is not limited to registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. Contractor shall also require all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

CONTRACT TERMINATION:

a) If the City has a good faith belief that a person or entity with which it is contracting has knowingly violated s. 448.09 (1) Fla. Stat., the contract shall be terminated.

b) If the City has a good faith belief that a subcontractor knowingly violated s. 448.095 (2), but the Contractor otherwise complied with s. 448.095 (2) Fla. Stat., shall promptly notify the Contractor and order the Contractor to immediately terminate the contract with the subcontractor.

c) A contract terminated under subparagraph a) or b) is not a breach of contract and may not be considered as such.

d) Any challenge to termination under this provision must be filed in the Circuit Court no later than 20 calendar days after the date of termination.

e) If the contract is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for a period of 1 year after the date of termination.

Company Name:	Republic Services of Florida, Limited Partnership
Authorized Signature:	04/24/2021
Print Name:	Jean-Pierre Turgot
Title	General Manager
Date:	April 16, 2021
Phone:	9543279555

STATE OF Florida)
COUNTY OF Broward)

The foregoing instrument was acknowledged before me by means of
■ physical presence or □ online notarization, this 24th day of April, 2021,

(SIGNATORY NAME) JEAN-PIERRE TURGOT
(NAME OF ENTITY), Republic Services of Florida, Limited Partnership
Florida (TYPE OF ENTITY), Limited Partnership
on behalf of the company. He/she is personally known to me or has produced

Known personal to me (TYPE OF ID) as identification.

NOTARY PUBLIC

Joanne Hope Stanley
(Name of Notary Typed, Printed or Stamped)

Notary
Title or Rank

#HH007732
Serial number, if any

QUALIFICATION STATEMENT

RESPONDER shall furnish the following information. Failure to comply with this requirement will render the solicitation response as non-responsive and shall cause its rejection. Additional sheets shall be attached as required.

RESPONDER'S Name and Principal Address:

Republic Services of Florida, Limited Partnership
751 NW 31st Avenue, Lauderhill, FL 33311

Contact Person's Name & Title: Jean-Pierre Turgot- General manager

RESPONDER'S Telephone: (954) 327-9555

Email jturgot@republicservices.com

RESPONDER'S License Number: 065-965470

(Please attach certificate of status, competency, and/or state registration.)

Number of years your organization has been in business 21

State the number of years your firm has been in business under your present business name 21

State the number of years your firm has been in business in the work specific to this bid: 21

Names and Titles of all officers, partners or individuals doing business under trade name:

Republic Services of Florida, Limited Partnership
Republic Services of Florida, General Partners

The business is a: Sole Proprietorship _____ Partnership x Corporation _____

QUALIFICATION STATEMENT

IF USING A FICTITIOUS NAME, SUBMIT EVIDENCE OF COMPLIANCE WITH FLORIDA FICTITIOUS NAME STATUTE.

Under what former name has your business operated? Include a description of the business. Failure to include such information shall be deemed to be intentional misrepresentation by the City and shall render the proposer bid submittals non-responsive.

All Service Refuse

At what address was that business located?

751 NW 31st Avenue
Lauderhill, FL 33311

Name, address, and telephone number of Surety Company and agent who will provide the required bonds on this contract:

Travelers Casualty and Surety Company of America, Seattle , WA
Amber Engel-206-695-3102

Have you ever failed to complete work awarded to you. If so, when, where and why?

No

Have you personally inspected the proposed work site and do you have a complete plan for its performance?

Yes, we did provide services to North Lauderdale until 2011.

Will you subcontract any part of this work? If so, give details including a list of each subcontractor(s) that will perform work in excess of ten percent (10%) of the contract amount and the work that will be performed by each subcontractor(s).

EWS will be our subcontractor for bulk and yard waste collection services.

*The foregoing list of subcontractor(s) may not be amended after award of the contract without the prior written approval of the City Contract Project Representative, whose approval shall not be reasonably withheld.

QUALIFICATION STATEMENT

List and describe all bankruptcy petitions (voluntary or involuntary) which have been filed by or against the RESPONDER, its parent or subsidiaries or predecessor organizations during the past five (5) years. Include in the description the disposition of each such petition.

Republic Services has never filed for bankruptcy. Please see our annaul report

List and describe all successful Bond claims made to your surety(ies) during the last five (5) years. The list and descriptions should include claims against the bond of the RESPONDER and its predecessor organization(s).

None

List all claims, arbitrations, administrative hearings and lawsuits brought by or against the RESPONDER or its predecessor organizations(s) during the last (10) years. The list shall include all case names; case, arbitration or hearing identification numbers; the name of the project over which the dispute arose; and a description of the subject matter of the dispute.

Please see Section IX in this RFP

List and describe all criminal proceedings or hearings concerning business related offenses in which the RESPONDER, its principals or officers or predecessor organization(s) were defendants.

Republic Services and it management team does not have any criminal proceeding to report

Has the RESPONDER, its principals, officers or predecessor organization(s) been CONVICTED OF A Public Entity Crime, debarred or suspended from bidding by any government entity? If so, provide details.

No, see Section II Required Forms

QUALIFICATION STATEMENT

Are you an [X] Original provider [ ] sales representative [ ] distributor, [ ] broker, [ ] manufacturer [ ] other, of the commodities/services proposed upon? If other than the original provider, explain below.

Republic Services provides solid waste , recycle, bulk and yard waste collection services

Have you ever been debarred or suspended from doing business with any governmental agency? If yes, please explain:

No

Describe the firm's local experience/nature of service with contracts of similar size and complexity, it the previous three (3) years:

Republic Services of Florida, Limited Partnership has held the Exclusive franchise agreement to the following cities.
Sunrise for over 40 years
Coconut Creek for over 23 years
Weston for over 20 years

The RESPONDER acknowledges and understands that the information contained in response to this Qualification Statement shall be relied upon by the CITY in awarding the contract and such information is warranted by RESPONDER to be true. The discovery of any omission or misstatement that materially affects the RESPONDER'S qualifications to perform under the contract shall cause the CITY to reject the solicitation response, and if after the award, to cancel and terminate the award and/or contract.

Print Name of Responder: Jean-Pierre Turgot

Signature of Responder: 03/24/2021

Title of Responder's Representative: General Manager

Date: March 25, 2021

LOCAL VENDOR PREFERENCE CERTIFICATION

SOLICITATION # 21-03-404

Policy: Section 3-12 of the City of North Lauderdale Procurement Ordinance, provides preferences to business entities meeting the defined criteria of Local Broward County or North Lauderdale vendor.

Definition: A "Local Vendor" is defined as the following:

- ***LOCAL BROWARD COUNTY VENDOR.*** A business entity which has maintained a permanent place of business with full-time employees within the Broward County limits for a minimum of one year prior to the date of issuance of a bid or proposal solicitation. The business must have a current business tax receipt from Broward County or the city within Broward County where the business resides.

- ***LOCAL NORTH LAUDERDALE VENDOR.*** A business entity which has maintained a permanent place of business with full-time employees within the city limits for a minimum of one year prior to the date of issuance of a bid or proposal solicitation. The business must have a current business tax receipt from the City of North Lauderdale.

    - The permanent place of business may not be a post office box.
    - The business location must actually distribute goods or services from that location.

Process: For bid evaluation purposes, vendors that meet the definition of local Broward County or local North Lauderdale vendor, as defined above, shall be given preference applied to their bids or proposals for commodities, services and construction.
Local North Lauderdale vendors shall be given 5% and local Broward County vendors shall be given 2.5%.

Local Preference shall not apply to any of the following:

1. Procurement methods other than a formal competitive solicitation
2. Procurements where federal, state or county law mandates to the contrary
3. Procurement of professional services procured pursuant to the State of Florida CCNA
4. Procurement using Cooperative Purchasing Agreements or Piggyback Contracts
5. Procurements deemed emergency, and Single or Sole Source

xx The business entity is certifying as a Local Broward County Vendor, 2.5% preference credit

____The business is certifying as a North Lauderdale Vendor, 5% preference credit

By completing the information required below and submitting this form the business entity certifies that it meets the requirements for local preference as stipulated in the Procurement Ordinance. This form must be submitted with the business entities response to a solicitation.

Name of Business Entity: Republic Services of Florida, Limited Partnership

Address: 751 NW 31st Avenue, Lauderhill, FL 33311

Tax ID/FEIM/SSN: 065-965470

Contact Name: Jean-Pierre Turgot **Title:** General Manager

Phone Number: 954-327-9555 **Email:** jturgot@republicservices.com

Signature: 03/24/2021

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

xx physical presence OR ___ online notarization

This 25 *day of* March, *20*21.

By Jean-Pierre Turgot

Personally known xx *OR produced identification* ___

Type of identification produced

Joanne Hope Stanley

Joanne Hope Stanley

NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

NON-COLLUSIVE AFFIDAVIT

State of Florida)

)ss.

County of Broward)

Jean-Pierre Turgot being first duly sworn, deposes and says that:

(1) He/she is the

General Manager, (Owner, Partner, Officer, Representative or Agent) of

Republic Services of Florida, Limited Partnership ,the RESPONDER that has submitted the attached response;

(2) He/she is fully informed respecting the preparation and contents of the attached solicitation response and of all pertinent circumstances respecting such Solicitation:

(3) Such solicitation response is genuine and is not a collusive or sham response;

(4) Neither the said RESPONDER nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired or agreed, directly or indirectly, with any other Responder, firm, or person to submit a collusive or sham response in connection with the work for which the attached solicitation response has been submitted; or to refrain from bidding in connection with such work; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Responder, firm or person to fix any overhead, profit, or cost elements of the solicitation response price or the solicitation response price of any other Responder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed work;

(5) The price or prices quoted in the attached solicitation response are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the RESPONDER or any other of its agents representatives, owners, employees or parties in interest, including this affiant.

Signed, sealed and delivered in the presence of:

BY: 03/24/2021
(Signature)

Jean-Pierre Turgot
(Printed Name)

General Manager
(Title)

Witness 1

Witness 2

NON-COLLUSIVE AFFIDAVIT

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

x physical presence OR ___ online notarization

This 25 *day of* March, *20* 21.

By Jean-Pierre Turgot

Personally known xx *OR produced identification* ____

Type of identification produced _____

Joanne Hope Stanley

NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

JOANNE HOPE STANLEY
Notary Public - State of Florida
Commission # HH 007732
My Comm. Expires Sep 26, 2024
Bonded through National Notary Assn.

OFFEROR'S CERTIFICATION

WHEN OFFEROR IS AN

___INDIVIDUAL ___SOLE PROPRIETORSHIP _x_PARTNERSHIP ___CORPORATION

IN WITNESS WHEREOF, the Offeror hereto has executed this Proposal Form this 25 day of March, 20 21.

By: 03242021
Signature of Individual

Witness

Witness

Jean-Pierre Turgot
Printed Name of Individual

751 NW 31st Avenue
Business Address

Lauderhill, FL 33311
City/State/Zip

954-327-9555
Business Phone Number

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

_x_ physical presence OR ___ online notarization

This 25 *day of* March, *20* 21.

By Jean Pierre Turgot

Personally known xx *OR produced identification*____

Type of identification produced _____

Joanne Hope Stanley
NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

JOANNE HOPE STANLEY
Notary Public - State of Florida
Commission # HH 007732
My Comm. Expires Sep 26, 2024
Bonded through National Notary Assn.

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-83 1-4000

VALID OCTOBER 1, 2020 THROUGH SEPTEMBER 30, 2021

DBA:
Business Name: ALL SERVICE REFUSE REPUBLIC SERVICES OF FL LP

Receipt #: 326-3550
Business Type: COURIER/TRANSPORT/DLVRY/TOWING (SOLID WASTE/RECYCLING/REMOVAL)

Owner Name: REPUBLIC SERVICES INC
Business Location: 751 NW 31 AVE FT LAUDERDALE
Business Phone: 954-583-1830

Business Opened: 09/27/2004
State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		275		

For Vending Business Only — Number of Machines: — Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
150.00	0.00	0.00	0.00	0.00	0.00	150.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:

REPUBLIC SERVICES INC
751 NW 31 AVE
FORT LAUDERDALE, FL 33311

Receipt #WWW-19-00197842
Paid 07/20/2020 150.00

2020 - 2021

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-83 1-4000

VALID OCTOBER 1, 2020 THROUGH SEPTEMBER 30, 2021

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State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		275		

Signature

For Vending Business Only — Number of Machines: — Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
150.00	0.00	0.00	0.00	0.00	0.00	150.00

Receipt #WWW-19-00197842
Paid 07/20/2020 150.00

State of Florida
Department of State

I certify from the records of this office that REPUBLIC SERVICES OF FLORIDA, LIMITED PARTNERSHIP is a Delaware limited partnership authorized to transact business in the State of Florida, qualified on December 27, 1999.

The document number of this limited partnership is B99000000467.

I further certify that said limited partnership has paid all fees due this office through December 31, 2020 and that its status is active.

I further certify that said limited partnership has not filed a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twelfth day of March, 2021

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

Secretary of State

Tracking Number: 5814230626CU

To authenticate this certificate,visit the following site,enter this number, and then follow the instructions displayed.

https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

City of North Lauderdale

Request for Proposal #21-03-404

April 29, 2020 3:00 PM

Solid Waste Services



Submitted by: Republic Services of Florida, Limited Partnership

Jean-Pierre Turgot– General Manager

751 NW 31st Avenue

Lauderhill, FL 33311

954-327-9555

Joanne Stanley– Manager ,Municipal Services

REPUBLIC SERVICES

We'll handle it from here.™

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Transmittal Letter

April 26, 2021

City of North Lauderdale
Attn: Andrew Rozwadowski—Purchasing and Contracts Manager
701 SW 71st Avenue,
North Lauderdale, FL 33068,

RE: Transmittal letter for RFP #21-03-404 Solid Waste Services

Dear Mr. Rozwadoski,

Attached to this letter is the complete response to the "Request for Proposal #21-03-404 "Solid Waste Services." for the City of North Lauderdale (City). On behalf of Republic Services of Florida, Limited Partnership (Republic), we appreciate the opportunity to submit our proposal and look forward to your response.

Republic warrants that it has accepted the following responsibilities with the submittal of this RFP:

1. Republic examined the RFP package, including all enclosures and the proposed agreement, thoroughly
2. This proposal is an irrevocable offer for 90 days from proposal opening.
3. Knows and is familiar with local conditions and geography that may affect the cost, permitting performance, or services described in the RFP, including inspection of the residential and commercial areas.
4. Republic considered all federal, state, and local laws, statutes, ordinances, regulations, and other applicable laws that may affect costs, permitting, progress, performance, or services.
4.. Republic Services has not collaborated or discussed the proposal's content or service fees proposed with the other Proposers.
5. Republic will service the City of North Lauderdale residential garbage, recycling, and commercial with Compress Natural Gas trucks.
6. Will provide" Samara System" on all residential curbside garbage and recycling trucks. This will include all residential spare collection equipment. The subcontractor, EWS, will use Third Eye Technology on residential bulk and yard waste collection equipment.
7. Has received and reviewed three addenda issued by the City of North Lauderdale:
    a. Addendum #1 — 3/31/2021
    b. Addendum #2 — 4/13/2021
    c. Addendum #3 — 4/21/2021
    d. Addendum #4- 4/22/2021

In Summary, Republic will continue to have its base of operations in Lauderhill, Florida. Republic will use the designated disposal facilities to dispose of residential, commercial, and industrial solid waste, bulk, and yard waste. Republic will also use the City's designated site for recovered materials collected from residential and multi-family routes.

Republic has no doubt that it will execute a plan to create a smooth transition for the City of North Lauderdale. Republic intends to work as closely with the incumbent as they permit the free flow of information to prevent any bumps or issues during the transition period

Republic operates in every major market in Florida with contracts of similar or larger sizes to North Lauderdale. Republic is fully qualified and experienced in handling solid waste and recycling collections services for North Lauderdale. Additionally, with a nationwide fleet with over 15,000 trucks and more than 35,000 workers, the City can rest assured that Republic will be able to handle any emergency in an expeditious time frame.

Please coordinate all correspondence concerning the RFP to Jean-Pierre Turgot, General Manager, who is authorized to obligate Republic (see attached Certificate of Secretary) contractually:

Republic Services of Florida, Limited Partnership
Attn: Jean-Pierre Turgot- General Manager
751 NW 31st Avenue
Lauderhill, FL 33311
(954) 327-9555 direct
(954) 279-9293 cell
jturgot@republicservices.com

Should a contract be awarded to Republic, the entity agreeing with the City of North Lauderdale will be "Republic Services of Florida, Limited Partnership.

We look forward to the opportunity to serve the City of North Lauderdale. Republic Services takes pride in partnering with our municipalities in the State of Florida. We appreciate the opportunity to submit a proposal, and we will patiently wait for the outcome of this process.

Sincerely,

04/26/2021

Jean-Pierre Turgot
General Manager
Republic Services of Florida, Limited Partnership

CERTIFICATE OF SECRETARY

RELATING TO THE BID OR PROPOSAL TO PROVIDE SOLID WASTE SERVICES (RFP #21-03-404) FOR THE CITY OF NORTH LAUDERDALE IN THE STATE OF FLORIDA

The undersigned, Secretary of **REPUBLIC SERVICES OF FLORIDA GP, INC.**, a Delaware corporation, the general partner (the "General Partner") of **REPUBLIC SERVICES OF FLORIDA, LIMITED PARTNERSHIP**, a Delaware limited partnership (the "Partnership") hereby certifies that the following is a true and correct copy of the resolution which was duly adopted by written consent of the General Partner on February 24, 2016, that such resolution has not been rescinded, amended or modified in any respect, and is in full force and effect on the date hereof:

RESOLVED, that (i) any individual at the time holding the position of General Manager or Area Director, Finance be, and each of them hereby is, appointed as an Authorized Agent, to act in the name and on behalf of the General Partner, in its capacity as the General Partner of the Partnership, and to include the execution of related documents, in connection with the day-to-day business activities of the Partnership, and further, that (ii) in addition to the General Manager or Area Director, Finance, any individual at the time holding the position of Area Director, Business Development; Area Director, Operations; or Market Vice President be, and each of them hereby is, appointed as an Authorized Agent to execute any bid and proposal, and if awarded, any related contract for services to be performed by the Partnership and any bond required by such bid, proposal or contract, all in accordance with the existing Levels of Authority and other relevant policies and procedures.

I further certify that **JEAN-PIERRE TURGOT** holds the title of General Manager and in such capacity has full authority to act in the name and on behalf of the Partnership as set forth in the foregoing resolution.

WITNESS MY HAND, this 25th day of March, 2021.

Eileen B. Schuler, Secretary

II. Required Forms

All Proposal Requirements Outlined Above

Republic Services has complied with all the requirements and has included the forms required for the RFP.

Drug-Free Workplace Form

Purchasing and Contracts Division

VENDOR DRUG-FREE WORKPLACE

Preference may be given to vendors submitting a certification with their bid/proposal certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991. The special condition is as follows:

IDENTICAL TIE BIDS - Preference may be given to businesses with drug-free workplace programs. Whenever two or more bids that are equal with respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifies the actions taken against employees for violations of such prohibition.

2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

3. Give each employee engaged in providing the commodities or contractual services that are underbid a copy of the statement specified in subsection (1).

4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are underbid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after each conviction.

5. Impose a section on, or require satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by any employee who is so convicted.

6. Make a good faith effort to continue to maintain a drug-free workplace through the implementation of this section. As the person authorized to sign the statement, I certify that this form complies fully with the above requirements.

03/24/2021

Jean-Pierre Turgot- General Manager
Authorized Signature

Republic Services of Florida, Limited Partnership
Company Name

Drug Free Work Place Certificate

Addenda Acknowledgement Form

ADDENDA ACKNOWLEDGMENT FORM

Addenda may be issued up to the date/time specified in the calendar on Page 2 of the solicitation.

RESPONDER'S NAME: Republic Services of Florida, Limited Partnership

The undersigned acknowledges receipt of the following addenda to the solicitation or acknowledgement that no addenda were issued:

Pre-Bid/Pre-Proposal Minutes

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: April 23, 2021

Addendum No. 1

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: April 23, 2021

Addendum No. 2

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: April 23, 2021

Addendum No. 3

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: April 23, 2021

Addendum No. 4

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: 04/23/2021

Addendum No. 5

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: 04/23/2021

No Addenda Were Issued for this Solicitation

Print Name of Representative: _____

Sign: _____ Dated: _____

Bid Bond

AIA® Document A310™ – 2010

Bid Bond

CONTRACTOR:
(Name, legal status and address)

Republic Services of Florida, Limited Partnership

SURETY:
(Name, legal status and principal place of business)

Travelers Casualty and Surety Company of America

OWNER:
(Name, legal status and address)

City of North Lauderdale

BOND AMOUNT: $ Fifty Thousand Dollars and 00/100 ($50,000.00)

PROJECT:
(Name, location or address, and Project number, if any)

RFP #21-03-404 Solid Waste Services

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Init. /

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User Notes: (1177639241)

Signed and sealed this 20th day of April, 2021.

Holly E. Ulfers
(Witness) Holly E. Ulfers

Debbie Lindstrom
(Witness) Debbie Lindstrom

Republic Services of Florida, Limited Partnership

(Contractor as Principal) (Seal)

Kathleen M. Mitchell, Attorney-in-Fact
(Title)

Travelers Casualty and Surety Company of America

(Surety) (Seal)

Amber Engel, Attorney-in-Fact
(Title)

Init.
/

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User Notes: (1177639241)

2

REPUBLIC SERVICES

POWER OF ATTORNEY

REPUBLIC SERVICES, INC., a Delaware corporation having its principal place of business at 18500 N. Allied Way, Phoenix, Arizona 85054, hereby makes, constitutes and appoints KIBBLE & PRENTICE HOLDING COMPANY dba USI INSURANCE SERVICES NORTHWEST, acting through and by any one of Debbie Lindstrom, Timothy S. Buhite, Kathleen M. Mitchell, Scott C. Alderman, Peggy A. Firth, Amber Engel, Jamie Armfield, Holly E. Ulfers, or Roxana Palacios, its true and lawful attorney to sign and seal any and all surety bonds, bid bonds, performance bonds and payment bonds at or below the monetary threshold of Five Million Dollars ($5,000,000.00) on behalf of REPUBLIC SERVICES, INC. and its subsidiaries, relating to the provision of solid waste collection, transportation, transfer, recycling, disposal and/or energy services by REPUBLIC SERVICES, INC. and its subsidiaries and affix its corporate seal to and deliver for and on behalf as surety thereon or otherwise, bonds of any of the following classes, to wit:

1. Surety bonds, bid bonds, performance bonds and payment bonds to the United States of America or agency thereof, including those required or permitted under the laws or regulations relating to Customs or Internal Revenue; license and permit bonds or other indemnity bonds under the laws, ordinances or regulations of any state, city, town, village, board, other body organization, public or private; bonds to transportation companies; lost instrument bonds; lease bonds; worker's compensation bonds; miscellaneous surety bonds; and bonds on behalf of notaries public, sheriffs, deputy sheriffs and similar public officials.

2. Surety bonds, bid bonds, performance bonds and payment bonds on behalf of REPUBLIC SERVICES, INC. and its subsidiaries in connection with bids, proposals or contracts.

REPUBLIC SERVICES, INC. hereby agrees to ratify and confirm whatsoever KIBBLE & PRENTICE HOLDING COMPANY dba USI INSURANCE SERVICES NORTHWEST shall lawfully do pursuant to this power of attorney, and until notice or revocation has been given by REPUBLIC SERVICES, INC., the acts of said attorney shall be binding on the undersigned.

IN WITNESS WHEREOF, this Power of Attorney has been signed this 3RD day of NOVEMBER, 2020 on behalf of REPUBLIC SERVICES, INC. by its Assistant Secretary, Eileen B. Schuler.

REPUBLIC SERVICES, INC.,
a Delaware corporation

Eileen B. Schuler

STATE OF ARIZONA

COUNTY OF MARICOPA

~~Subscribed and sworn to before me this 3RD~~ day of NOVEMBER, 2020 by Eileen B. Schuler, Assistant Secretary.

Matthew Nordquist
Notary Public
Maricopa County, Arizona
My Comm. Expires 05-31-23
Commission No. 563802

Notary Public

CERTIFICATE

I, the undersigned, Eileen B. Schuler, Assistant Secretary of Republic Services, Inc., a Delaware corporation, do hereby certify that the foregoing Power of Attorney is true, correct, remains in full force and effect, and has not been revoked.

IN WITNESS WHEREOF, this Certification has been signed this 20th day of April, 2021 on behalf of REPUBLIC SERVICES, INC. by its Assistant Secretary, Eileen B. Schuler.

Eileen B. Schuler

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company
Farmington Casualty Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, St. Paul Fire and Marine Insurance Company, and Farmington Casualty Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Amber Engel** of **Seattle, WA**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law, including the following bond:

Surety Bond No.: Bid Bond
OR
Project Description: RFP #21-03-404 Solid Waste Services

Principal: Republic Services of Florida, Limited Partnership
Obligee: City of North Lauderdale

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **6th** day of **May, 2019.**

State of Connecticut

By: _____
Robert L. Raney, Senior Vice President

City of Hartford ss.

On this the **6th** day of **May, 2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 20th day of April, 2021.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

USI Insurance Services
601 Union Street
Suite 1000
Seattle, WA 98101
www.usi.com
Tel: 206.441.6300

LETTER OF INTENT

4/20/2021

City of North Lauderdale
701 SW 71st Avenue
North Lauderdale, FL 33068

RE: Republic Services of Florida, Limited Partnership
RFP #21-03-404 Solid Waste Services

Gentlemen:

We are writing to you at the request of Republic Services of Florida, Limited Partnership. This principal has or is about to submit a Bid proposal for RFP #21-03-404 Solid Waste Services.

If a contract for this work is awarded to Republic Services of Florida, Limited Partnership, Travelers Casualty and Surety Company of America, a surety licensed to conduct business in the State of FL, has agreed to act as surety to issue the required Performance Bond which is a condition of awarding of this contract.

Please let us know if you need anything further in this regard.

Sincerely,

Amber Engel
Attorney-in-Fact
Travelers Casualty and Surety Company of America

Bond No.:_____

Performance Bond

KNOW ALL BY THESE PRESENTS, That we _____, as Principal and _____, of _____, authorized to do business in the State of _____, as Surety, are held and firmly bound unto _____ _____ as Obligee, in the maximum penal sum of _____ _____ Dollars (_____), lawful money of the United States of America, for which payment well and truly to be made we bind ourselves, our heirs, executors and assigns, jointly and severally, firmly by this Bond.

WHEREAS, the Principal has entered, or is about to enter, into a written agreement with the Obligee to perform in accordance with the terms and conditions of the _____ _____ (hereinafter referred to as the Contract), said Contract is hereby referred to and made a part hereof;

NOW, THEREFORE, the condition of this obligation is such that if the above name Principal, its successors and assigns, shall well and truly perform its obligation as set forth in the above mentioned Contract, then this Bond shall be void; otherwise to remain in full force and effect pursuant to its terms.

Notwithstanding anything to the contrary in the Contract, the Bond is subject to the following express conditions:

1. Whereas, the Obligee has agreed to accept this Bond, this Bond shall be effective for the definite period of _____ to _____. The Bond may be extended, at the sole option of the Surety, by continuation certificate for additional periods from the expiry date hereof. However, neither: (a) the Surety's decision not to issue a continuation certificate, nor (b) the failure or inability of the Principal to file a replacement bond or other security in the event the Surety exercises its right to not renew, shall itself constitute a loss to the Obligee recoverable under this Bond or any extension thereof.
2. If there is no breach or default on the part of the Obligee, then the Surety's performance obligation under the bond shall only arise after:
   a. The Obligee has notified the Principal and the Surety in writing at their respective addresses of the alleged breach with a detailed description thereof, and has requested and attempted to arrange a conference with the Principal and the Surety to be held not later than fifteen (15) days after receipt of such notice to discuss methods of performing the Contract; and has made available during the notice period all books, records, and accounts relevant to the Contract which may be requested by the Principal or Surety. If the Obligee, Principal and Surety agree, the Principal shall be allowed a reasonable time to perform the Contract; but such an agreement shall not waive the Obligee's right, if any, to subsequently declare a Principal default;
   b. The Obligee has declared the Principal in default and formally terminated the Principal's right to complete the Contract, provided, however, that such default shall not be declared earlier than twenty (20) days after the Principal and the Surety have received the notice as provided in "a" above; and
   c. The Obligee has agreed to pay the balance of the Contract price to the Surety in accordance with the terms of the Contract or to the such contractor as may be tendered by the Surety to the Obligee.

3. No claim, action, suit or proceeding, except as hereinafter set forth shall be had or maintained against the Surety on this instrument unless such claim, action, suit or proceeding is brought or instituted upon the Surety within six months from termination or expiration of the bond term.
4. Regardless of the number of years this Bond is in force or the number of continuation certificates issued, the liability of the Surety shall not be cumulative in amounts from period to period and shall in no event exceed the amount set forth above, or as amended by rider.
5. Any notice, demand, certification or request for payment, made under this Bond shall be made in writing to the Surety at the address specified below. Any demand or request for payment must be made prior to the expiry date of this Bond.

Surety Address:

Attn:_____

SIGNED, SEALED AND DATED this _____ day of _____, _____.

_____
Principal

By:_____

_____
Surety

By:_____
Attorney-in-Fact

SAMPLE

Anti-Lobbying Certification

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.

2. Identify the status of the covered Federal action.

3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.

4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.

5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.

6. Enter the name of the federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.

7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.

8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitations for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Included prefixes, e.g., "RFP-19-90-001."

9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.

10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.

    (b) Enter the full names of the individual(s) performing services, and include full address if different from 10(a). Enter Last Name, First Name, and Middle Initial (MI).

11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503

BYRD ANTI-LOBBYING AMENDMENT CERTIFICATION

(To be submitted with each proposal or offer exceeding $100,000)

The undersigned, [Company] Republic Services of Florida, Limited Partnership certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The Contractor, [Company] Republic Services of Florida, Limited Partnership, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

04/16/2021

Signature of Contractor's Authorized Official

Jean-Pierre Turgot General Manager

Name and Title of Contractor's Authorized Official

April 16, 2021

Date

Republic Services does not lobby any agency for any specific contract activities. We are in compliance with the Bryd provisions.

Not Applicable

Approved by OMB
0348-0046

Disclosure of Lobbying Activities

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
(See reverse for public burden disclosure)

1. Type of Federal Action: a. contract ____ b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	**2. Status of Federal Action:** a. offer/application _____ b. initial award c. post-award	**3. Report Type:** a. initial filing _____ b. material change **For material change only:** Year _____ quarter _____ Date of last report_____
4. Name and Address of Reporting Entity: ____ Prime _____ Subawardee Tier_____, if Known: **Congressional District,** *if known*:	**5. If Reporting Entity in No. 4 is Subawardee,** Enter Name and Address of Prime: **Congressional District,** *if known*:	
6. Federal Department/Agency:	**7. Federal Program Name/Description:** CFDA Number, *if applicable*: _____	
8. Federal Action Number, *if known:*	**9. Award Amount,** *if known:* **$**	
10. a. Name and Address of Lobbying Registrant *(if individual, last name, first name, MI):*	**b. Individuals Performing Services** *(including address if different from No. 10a)* *(last name, first name, MI):*	
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.	**Signature:** _____ **Print Name:** _____ **Title:** _____ **Telephone No.:** _____ **Date:** _____	
Federal Use Only	**Authorized for Local Reproduction** **Standard Form - LLL (Rev. 7-97)**	

E Verify Affidavit

CITY OF NORTH LAUDERDALE

E-VERIFY FORM UNDER SECTION 448.095, FLORIDA STATUTES

Project Name: Solid Waste Services
Project No.: #21-03-404

DEFINITIONS:

*"**Contractor**"* means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration. "Contractor" includes, but is not limited to, a vendor or consultant.
*"**Subcontractor**"* means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.
"**E-Verify system**" means an Internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.

Effective January 1, 2021, Contractors, shall register with and use the E-verify system in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

a) All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and

b) All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the contract with the City of North Lauderdale. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with the City of North Lauderdale; and

c) Should vendor become the successful Contractor awarded for the above-named project, by entering into the contract, the Contractor shall comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility," as amended from time to time. This includes, but is not limited to registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. Contractor shall also require all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

CONTRACT TERMINATION:

a) If the City has a good faith belief that a person or entity with which it is contracting has knowingly violated s. 448.09 (1) Fla. Stat., the contract shall be terminated.

b) If the City has a good faith belief that a subcontractor knowingly violated s. 448.095 (2), but the Contractor otherwise complied with s. 448.095 (2) Fla. Stat., shall promptly notify the Contractor and order the Contractor to immediately terminate the contract with the subcontractor.

c) A contract terminated under subparagraph a) or b) is not a breach of contract and may not be considered as such.

d) Any challenge to termination under this provision must be filed in the Circuit Court no later than 20 calendar days after the date of termination.

e) If the contract is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for a period of 1 year after the date of termination.

Company Name:	Republic Services of Florida, Limited Partnership
Authorized Signature:	
Print Name:	Jean-Pierre Turgot
Title	General Manager
Date:	April 16, 2021
Phone:	9543279555

STATE OF Florida)
COUNTY OF Broward)

The foregoing instrument was acknowledged before me by means of
■ physical presence or □ online notarization, this 24th day of April, 2021,

(SIGNATORY NAME) JEAN-PIERRE TURGOT
(NAME OF ENTITY), Republic Services of Florida, Limited Partnership
Florida (TYPE OF ENTITY), Limited Partnership
on behalf of the company. He/she is personally known to me or has produced

Known personal to me (TYPE OF ID) as identification.

NOTARY PUBLIC

Joanne Hope Stanley
(Name of Notary Typed, Printed or Stamped)

Notary
Title or Rank

#HH007732
Serial number, if any

Local Vendor Preference Certification

LOCAL VENDOR PREFERENCE CERTIFICATION

SOLICITATION # 21-03-404

Policy: Section 3-12 of the City of North Lauderdale Procurement Ordinance, provides preferences to business entities meeting the defined criteria of Local Broward County or North Lauderdale vendor.

Definition: A "Local Vendor" is defined as the following:

- ***LOCAL BROWARD COUNTY VENDOR.*** A business entity which has maintained a permanent place of business with full-time employees within the Broward County limits for a minimum of one year prior to the date of issuance of a bid or proposal solicitation. The business must have a current business tax receipt from Broward County or the city within Broward County where the business resides.

- ***LOCAL NORTH LAUDERDALE VENDOR.*** A business entity which has maintained a permanent place of business with full-time employees within the city limits for a minimum of one year prior to the date of issuance of a bid or proposal solicitation. The business must have a current business tax receipt from the City of North Lauderdale.

    - The permanent place of business may not be a post office box.
    - The business location must actually distribute goods or services from that location.

Process: For bid evaluation purposes, vendors that meet the definition of local Broward County or local North Lauderdale vendor, as defined above, shall be given preference applied to their bids or proposals for commodities, services and construction. Local North Lauderdale vendors shall be given 5% and local Broward County vendors shall be given 2.5%.

Local Preference shall not apply to any of the following:

1. Procurement methods other than a formal competitive solicitation
2. Procurements where federal, state or county law mandates to the contrary
3. Procurement of professional services procured pursuant to the State of Florida CCNA
4. Procurement using Cooperative Purchasing Agreements or Piggyback Contracts
5. Procurements deemed emergency, and Single or Sole Source

xx
____The business entity is certifying as a Local Broward County Vendor, 2.5% preference credit

____The business is certifying as a North Lauderdale Vendor, 5% preference credit

By completing the information required below and submitting this form the business entity certifies that it meets the requirements for local preference as stipulated in the Procurement Ordinance. This form must be submitted with the business entities response to a solicitation.

Name of Business Entity: Republic Services of Florida, Limited Partnership

Address: 751 NW 31st Avenue, Lauderhill, FL 33311

Tax ID/FEIM/SSN: 065-965470

Contact Name: Jean-Pierre Turgot **Title:** General Manager

Phone Number: 954-327-9555 **Email:** jturgot@republicservices.com

Signature: 03/24/2021

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

xx physical presence OR ___ online notarization

This 25 *day of* March, *20*21.

By Jean-Pierre Turgot

Personally known xx *OR produced identification* ___

Type of identification produced

Joanne Hope Stanley

NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

Non-Collusion Affidavit

NON-COLLUSIVE AFFIDAVIT
Page 1 of 2

State of Florida)

)ss.

County of Broward)

Jean-Pierre Turgot being first duly sworn, deposes and says that:

(1) He/she is the

General Manager, (Owner, Partner, Officer, Representative or Agent) of

Republic Services of Florida, Limited Partnership ,the RESPONDER that has submitted the attached response;

(2) He/she is fully informed respecting the preparation and contents of the attached solicitation response and of all pertinent circumstances respecting such Solicitation:

(3) Such solicitation response is genuine and is not a collusive or sham response;

(4) Neither the said RESPONDER nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired or agreed, directly or indirectly, with any other Responder, firm, or person to submit a collusive or sham response in connection with the work for which the attached solicitation response has been submitted; or to refrain from bidding in connection with such work; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Responder, firm or person to fix any overhead, profit, or cost elements of the solicitation response price or the solicitation response price of any other Responder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed work;

(5) The price or prices quoted in the attached solicitation response are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the RESPONDER or any other of its agents representatives, owners, employees or parties in interest, including this affiant.

Signed, sealed and delivered in the presence of:

BY: _____ 6/24/2021
(Signature)

Jean-Pierre Turgot
(Printed Name)

General Manager
(Title)

Witness 1

Witness 2

NON-COLLUSIVE AFFIDAVIT

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

x physical presence OR ___ online notarization

This 25 *day of* March, *20* 21.

By Jean-Pierre Turgot

Personally known xx *OR produced identification* ____

Type of identification produced _____

Joanne Hope Stanley

NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

JOANNE HOPE STANLEY
Notary Public - State of Florida
Commission # HH 007732
My Comm. Expires Sep 26, 2024
Bonded through National Notary Assn.

Offeror's Certification

OFFEROR'S CERTIFICATION

WHEN OFFEROR IS AN

___INDIVIDUAL ___SOLE PROPRIETORSHIP _x_PARTNERSHIP ___CORPORATION

IN WITNESS WHEREOF, the Offeror hereto has executed this Proposal Form this 25 day of March, 20 21.

By: 03/24/2021
Signature of Individual

Witness

Witness

Jean-Pierre Turgot
Printed Name of Individual

751 NW 31st Avenue
Business Address

Lauderhill, FL 33311
City/State/Zip

954-327-9555
Business Phone Number

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

_x_ physical presence OR ___ online notarization

This 25 *day of* March, *20* 21.

By Jean Pierre Turgot

Personally known xx *OR produced identification*____

Type of identification produced _____

Joanne Hope Stanley

NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

JOANNE HOPE STANLEY
Notary Public - State of Florida
Commission # HH 007732
My Comm. Expires Sep 26, 2024
Bonded through National Notary Assn.

Proof of Insurance- Sample

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

Page 1 of 2

DATE (MM/DD/YYYY) 07/11/2020

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 have ADDITIONAL INSURED provisions or 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	CONTACT NAME:	
CANNON COCHRAN MANAGEMENT SERVICES, INC. 17015 N. SCOTTSDALE RD SCOTTSDALE, AZ 85255	PHONE (A/C No.Ext):	FAX (A/C No.Ext):
	E-MAIL ADDRESS:certificateteam@ccmsi.com	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: ACE American Insurance Co.	22667
INSURER B: Indemnity Insurance Company of NA	43575
INSURER C: ACE Fire Underwriters	20702
INSURER D: Illinois Union Insurance Company	27960
INSURER E: ACE Property and Casualty Insurance Co	20699
INSURER F:	

INSURED
REPUBLIC SERVICES, INC.
18500 N. ALLIED WAY
PHOENIX, AZ 85054

COVERAGES **CERTIFICATE NUMBER: 1743258** **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 INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PROJECT LOC OTHER:			HDO G71450892	06/30/2020	06/30/2021	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS -COMP/OP AGG	$ 5,000,000 $ 5,000,000 $ 5,000,000 $ 5,000,000 $ 5,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO X OWNED AUTOS ONLY X SCHEDULED AUTOS X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY			ISA H25305425	06/30/2020	06/30/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY(Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 5,000,000
E	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $			G46782148-004	06/30/2020	06/30/2021	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
B A C A D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		WLR C67458424 AOS WLR C67458382 AZ/CA/MA/OR SCF C67458461 - WI WCU C67458503 - OH XS TNS C66948560 - TX NSXS	06/30/2020 06/30/2020 06/30/2020 06/30/2020 06/30/2020	06/30/2021 06/30/2021 06/30/2021 06/30/2021 06/30/2021	X PER STATUTE OTHER E.L. EACH ACCIDENT E.L. DISEASE -EA EMPLOYEE E.L. DISEASE -POLICY LIMIT	 $ 3,000,000 $ 3,000,000 $ 3,000,000
	Contractor's Pollution Liability:			See page 2 for details	06/30/2020	06/30/2021		

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

EVIDENCE OF COVERAGE - FOR USE FOR REPUBLIC SERVICES, INC. AND ALL ITS SUBSIDIARIES

EVIDENCE OF COVERAGE

CERTIFICATE HOLDER	CANCELLATION
EVIDENCE OF COVERAGE United States	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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Proposal Price Forms

Item 1

RFP #21-03-404 - Solid Waste Services

****NOTE: THERE ARE A TOTAL OF FOUR (4) PRICING SHEET PAGES****

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (TIN):	65-0965470

RESIDENTIAL COLLECTION SERVICES - ITEM 1

Roll-out Cart Services - 2x Per Week

Description	Comments	Unit of Measure	Frequency	Price WITHOUT providing one-time $150,000 Lump Sum Payment for City Grapple Truck — Unit Price	Price WITH providing one-time $150,000 Lump Sum Payment for City Grapple Truck — Unit Price
Collection: The rates specified for collection service shall include the cost for collection and the cost of carts		EACH	Per Month Per Dwelling Unit	$ 9.15	$ 7.91
Disposal: The rates specified for the cost of disposal	Pass-through cost of Disposal	EACH	Per Month Per Dwelling Unit	$ 8.01	$ 8.01
Disposal: Recycling (One Time Per Week)	Pass-through cost of Disposal	EACH	Per Month Per Dwelling Unit	$ 1.02	$ 1.02
Collection: Recycling (One Time Per Week)		EACH	Per Month Per Dwelling Unit	$ 4.97	$ 6.08
Option 1: Bulk Waste Collection Service (Once Per Week)	No limit on size of bulk items	EACH	52 Times Per Year	$ 9.30	$ 9.30
Option 2: Bulk Waste Collection Service (Bi-Weekly)	No limit on size of bulk items	EACH	26 Times Per Year	$ 6.27	$ 6.27
Option 3: Bulk Waste Collection Service (Once Per Month)	No limit on size of bulk items	EACH	12 Times Per Year	$ 6.27	$ 6.27
Replacement Roll-out carts Solid Waste or Recycling		EACH		$ 65.00	$ 65.00
Optional: Additional Roll-out container collection Fee; 96 gallons		EACH	Per Month Per Dwelling Unit	$ 6.00	$ 6.00
Optional: Additional Roll-out carts Solid Waste or Recycling	To be billed and paid by Customer, not the City	EACH		$ 6.00	$ 6.00

Please identify any optional items below and the cost.

Description	Comments	Unit of Measure	Frequency	Unit Price	Unit Price
Residential - Bulk		YD	As needed	$ 45.00	$ 45.00
Commercial - Bulk		YD	As needed	$ 45.00	$ 45.00
Commercial - lock Bar install	one time install	EA	As needed	$ 75.00	$ 75.00
Commercial - lock / unlock	each pickup	EA	As needed	$ 2.70	$ 2.70
Commercial / Industrial Relocation		EA	As needed	$ 75.00	$ 75.00
Commercial - Extra Yardage	Extra yards above container	EA	As needed	$ 60.00	$ 60.00
Industrial - Dry Run/ Container blocked or empty		EA	As needed	$ 150.00	$ 150.00
Industrial - Liner for box		ES	As needed	$ 75.00	$ 75.00
Industrial - Washout for compactors		EA	As needed	$ 325.00	$ 325.00
				$ -	$ -

Item 2

RFP #21-03-404 - Solid Waste Services

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (TIN):	65-0965470

COMMERCIAL AND MULTI-FAMILY SERVICES CONTAINER SERVICES - ITEM 2

Charges are per month and are billed directly to the customer

Container Size and Frequency

Description	1x/Week	2x/Week	3x/Week	4x/Week	5x/Week	6x/Week	7x/Week
Hand Pick-Up (1 Cubic Yard or less)							
Collection	$ 22.77	$ 45.54	$ 68.32	$ 91.09	$ 113.86	$ 136.63	$ 159.41
Disposal	$ 7.62	$ 15.24	$ 22.86	$ 30.48	$ 38.10	$ 45.72	$ 53.34
Monthly Maintenance Fee	$ 10.00	$ 10.00	$ 10.00	$ 10.00	$ 10.00	$ 10.00	$ 10.00
Total Cost	**$ 40.39**	**$ 70.78**	**$ 101.17**	**$ 131.57**	**$ 161.96**	**$ 192.35**	**$ 222.74**
1 Cubic Yard							
Collection	$ 59.07	$ 118.15	$ 177.22	$ 236.29	$ 295.36	$ 354.44	$ 413.51
Disposal	$ 9.92	$ 19.84	$ 29.76	$ 39.67	$ 49.59	$ 59.51	$ 69.43
Monthly Maintenance Fee	$ 11.00	$ 11.00	$ 11.00	$ 11.00	$ 11.00	$ 11.00	$ 11.00
Total Cost	**$ 79.99**	**$ 148.98**	**$ 217.97**	**$ 286.96**	**$ 355.95**	**$ 424.95**	**$ 493.94**
2 Cubic Yard							
Collection	$ 118.15	$ 236.29	$ 354.44	$ 472.58	$ 590.73	$ 708.87	$ 827.02
Disposal	$ 19.84	$ 39.67	$ 59.51	$ 79.35	$ 99.18	$ 119.02	$ 138.86
Monthly Maintenance Fee	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00
Total Cost	**$ 149.98**	**$ 287.96**	**$ 425.95**	**$ 563.93**	**$ 701.91**	**$ 839.89**	**$ 977.87**
2 Cubic Yard							
Collection							
Disposal		Duplicate					
Monthly Maintenance Fee							
Total Cost	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
3 Cubic Yard							
Collection	$ 177.22	$ 354.44	$ 531.65	$ 708.87	$ 886.09	$ 1,063.31	$ 1,240.52
Disposal	$ 29.76	$ 59.51	$ 89.27	$ 119.02	$ 148.78	$ 178.53	$ 208.29
Monthly Maintenance Fee	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00
Total Cost	**$ 220.97**	**$ 427.95**	**$ 634.92**	**$ 841.89**	**$ 1,048.86**	**$ 1,255.84**	**$ 1,462.81**
4 Cubic Yard							
Collection	$ 236.29	$ 472.58	$ 708.87	$ 945.16	$ 1,181.45	$ 1,417.74	$ 1,654.03
Disposal	$ 39.67	$ 79.35	$ 119.02	$ 158.69	$ 198.37	$ 238.04	$ 277.72
Monthly Maintenance Fee	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00
Total Cost	**$ 291.96**	**$ 567.93**	**$ 843.89**	**$ 1,119.86**	**$ 1,395.82**	**$ 1,671.78**	**$ 1,947.75**
6 Cubic Yard							
Collection	$ 354.44	$ 708.87	$ 1,063.31	$ 1,417.74	$ 1,772.18	$ 2,126.61	$ 2,481.05
Disposal	$ 59.51	$ 119.02	$ 178.53	$ 238.04	$ 297.55	$ 357.06	$ 416.57
Monthly Maintenance Fee	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00
Total Cost	**$ 431.95**	**$ 845.89**	**$ 1,259.84**	**$ 1,673.78**	**$ 2,087.73**	**$ 2,501.67**	**$ 2,915.62**
8 Cubic Yard							
Collection	$ 472.58	$ 945.16	$ 1,417.74	$ 1,890.32	$ 2,362.90	$ 2,835.48	$ 3,308.06
Disposal	$ 79.35	$ 158.69	$ 238.04	$ 317.39	$ 396.74	$ 476.08	$ 555.43
Monthly Maintenance Fee	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00
Total Cost	**$ 571.93**	**$ 1,123.86**	**$ 1,675.78**	**$ 2,227.71**	**$ 2,779.64**	**$ 3,331.57**	**$ 3,883.49**

Item 3

RFP #21-03-404 - Solid Waste Services

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (TIN):	65-0965470

COMPACTOR SERVICES - ITEM 3

Charges are per month and are billed directly to the customer

Container Size and Frequency

Description	1x/Week	2x/Week	3x/Week	4x/Week	5x/Week	6x/Week	7x/Week
1 Cubic Yard							
Collection	$ 59.07	$ 118.15	$ 177.22	$ 236.29	$ 295.36	$ 354.44	$ 413.51
Disposal	$ 29.76	$ 59.51	$ 89.27	$ 119.02	$ 148.78	$ 178.53	$ 208.29
Monthly Maintenance Fee	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00
Total Cost	**$ 100.83**	**$ 189.66**	**$ 278.48**	**$ 367.31**	**$ 456.14**	**$ 544.97**	**$ 633.79**
2 Cubic Yard							
Collection	$ 118.15	$ 236.29	$ 354.44	$ 472.58	$ 590.73	$ 708.87	$ 827.02
Disposal	$ 59.51	$ 119.02	$ 178.53	$ 238.04	$ 297.55	$ 357.06	$ 416.57
Monthly Maintenance Fee	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00
Total Cost	**$ 191.66**	**$ 369.31**	**$ 546.97**	**$ 724.62**	**$ 902.28**	**$ 1,079.93**	**$ 1,257.59**
2 Cubic Yard							
Collection							
Disposal		Duplicate					
Monthly Maintenance Fee							
Total Cost	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
3 Cubic Yard							
Collection	$ 177.22	$ 354.44	$ 531.65	$ 708.87	$ 886.09	$ 1,063.31	$ 1,240.52
Disposal	$ 89.27	$ 178.53	$ 267.80	$ 357.06	$ 446.33	$ 535.59	$ 624.86
Monthly Maintenance Fee	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00
Total Cost	**$ 282.48**	**$ 548.97**	**$ 815.45**	**$ 1,081.93**	**$ 1,348.42**	**$ 1,614.90**	**$ 1,881.38**
4 Cubic Yard							
Collection	$ 236.29	$ 472.58	$ 708.87	$ 945.16	$ 1,181.45	$ 1,417.74	$ 1,654.03
Disposal	$ 119.02	$ 238.04	$ 357.06	$ 476.08	$ 595.11	$ 714.13	$ 833.15
Monthly Maintenance Fee	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00
Total Cost	**$ 373.31**	**$ 728.62**	**$ 1,083.93**	**$ 1,439.24**	**$ 1,794.56**	**$ 2,149.87**	**$ 2,505.18**
6 Cubic Yard							
Collection	$ 354.44	$ 708.87	$ 1,063.31	$ 1,417.74	$ 1,772.18	$ 2,126.61	$ 2,481.05
Disposal	$ 178.53	$ 357.06	$ 535.59	$ 714.13	$ 892.66	$ 1,071.19	$ 1,249.72
Monthly Maintenance Fee	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00
Total Cost	**$ 552.97**	**$ 1,085.93**	**$ 1,618.90**	**$ 2,151.87**	**$ 2,684.83**	**$ 3,217.80**	**$ 3,750.77**
8 Cubic Yard							
Collection	$ 472.58	$ 945.16	$ 1,417.74	$ 1,890.32	$ 2,362.90	$ 2,835.48	$ 3,308.06
Disposal	$ 238.04	$ 476.08	$ 714.13	$ 952.17	$ 1,190.21	$ 1,428.25	$ 1,666.29
Monthly Maintenance Fee	$ 22.00	$ 22.00	$ 22.00	$ 22.00	$ 22.00	$ 22.00	$ 22.00
Total Cost	**$ 732.62**	**$ 1,443.24**	**$ 2,153.87**	**$ 2,864.49**	**$ 3,575.11**	**$ 4,285.73**	**$ 4,996.36**

Item 4

RFP #21-03-404 - Solid Waste Services

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (	65-0965470

PULL SERVICES - ITEM 4

Charges are per month and are billed directly to the customer

Description	10 Cubic Yard	15 Cubic Yard	20 Cubic Yard	30 Cubic Yard	40 Cubic Yard
Pick-up & Haul	$ 403.00	$ 428.00	$ 453.00	$ 503.00	$ 553.00
Disposal	$ 186.28	$ 209.56	$ 232.85	$ 279.42	$ 325.99
Total Cost	**$ 589.28**	**$ 637.56**	**$ 685.85**	**$ 782.42**	**$ 878.99**

Delivery	$ 175.00	$ 175.00	$ 175.00	$ 175.00	$ 175.00

Maintenance Fee (per day) {Less than 30 days}	$ 3.00	$ 3.00	$ 3.00	$ 3.00	$ 3.00

Maintenance Fee (per day) {More than 30 days}	$ 3.25	$ 3.25	$ 3.25	$ 3.25	$ 3.25

Proposer's List of Current and Previous Contracts Tri-county Contracts

IV f. Republic Services list of contracts in the tri county area for the last five years.

Palm Beach County	Revenue	$13,856,000.00	Start Date:	10/1/2013	Expiration Date:	9/30/2019	
Number of Homes Serviced:	55,106	Garbage Tons/Year:	54,445	Recycle Tons/Year:	12,178		
Main Contact:	John Archambo - Director of Solid Waste		jarchambo@swa.org	Phone No.:	561-697-2700 Ext. 4725		
Address:	7501 N. Jog Road	City:	West Palm Beach	St:	FL	Zip:	33412
Services are provided with Rear Load Trucks within Service Area 3 of the County's program. Commercial and Industrial collection services are also included in the exclusive franchise. Services are provided six days per week. Republic has serviced the County for over 40 years. Daniel Baker - Operations manager, Joanne Stanley Manager, Municipal Sales 70 employees and two supervisors							

Village of Royal Palm Beach	Revenue	$3,266,011.00	Start Date:	10/1/2007	Expiration Date:	11/1/2019	
Number of Homes Serviced:	9,379	Garbage Tons/Year:	9,266	Recycle Tons/Year:	2,073		
Main Contact:	Raymond Liggins - Village Manager		rliggins@royalpalm.com	Phone No.:	(561) 790-5100		
Address:	1050 Royal Palm Beach Blvd.	City:	Royal Palm Breach	St:	FL	Zip:	33411
Services are provided with Automated Side Load Trucks. An additional 3,147 units are serviced at multi-family complexes. Commercial and Industrial services are provided to businesses through an open competitive market. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 9 employees and 1 supervisor							

City of Sunrise	Revenue	$7,521,321.00	Start Date:	7/1/1996	Expiration Date:	9/30/2024	
Number of Homes Serviced:	19,268	Garbage Tons/Year:	19,037	Recycle Tons/Year:	4,258		
Main Contact:	Harry Cruz - Utility Finance Manager		hcurz@sunrise.gov	Phone No.:	(954) 746-3233		
Address:	10770 W. Oakland Park Blvd	City:	Sunrise	St:	FL	Zip:	33351
Services are provided with Rear Load Trucks. An additional 19,132 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided seven days per week. Republic has serviced the City for 40 years. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 25 employees and 2 Supervisors							

Village of Palm Springs	Revenue	$3,109,000.00	Start Date:	4/1/2008	Expiration Date:	11/1/2019
Number of Homes Serviced:	5,808	Garbage Tons/Year:	5,738	Recycle Tons/Year:	1,284	
Main Contact:	Richard Reade - Village Manager	rreade@vpsfl.org	Phone No.:	(561) 365-4010		
Address:	226 Cypress Ln.	City:	Palm Springs	St:	FL	Zip: 33461

Services are provided with Automated Side Load Trucks. An additional 3,636 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales. 6 employees and 1 supervisor

City of Coconut Creek	Revenue	$5,179,226.00	Start Date:	2/1/1995	Expiration Date:	9/30/2017
Number of Homes Serviced:	9,241	Garbage Tons/Year:	9,130	Recycle Tons/Year:	2,042	
Main Contact:	Alex Tergis	Atergis@coconutcreek.net	Phone No.:	(954) 746-3233		
Address:	4800 West Copans Road	City:	Coconut Creek	St:	FL	Zip: 33064

Services are provided with Automated Side Load Trucks. An additional 11,059 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 6 employees and 1 supervisor. Also a subcontractor for bulk

City of Fort Lauderdale	Revenue	$6,620,376.00	Start Date:	7/31/2019	Expiration Date:	7/30/2023
Number of Homes Serviced:	37,996	Garbage Tons/Year:	59,748	Recycle Tons/Year:	0	
Main Contact:	Melissa Doyle- Environmental Manager	mdoyle@fortlauderdale.gov	Phone No.:	954-828-4357		
Address:	100 North Andrews Avenue	City:	Fort Lauderdale	St:	FL	Zip: 33305

Curbside solid waste and yard waste collection services are provided with Automated Side Load Trucks. Yard waste is 13,694 tons per year. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales. 24 employees and 3 supervisors

City of Weston	Revenue	$8,151,717.00	Start Date:	10/1/2012	Expiration Date:	3/31/2019
Number of Homes Serviced:	17,588	Garbage Tons/Year:	17,377	Recycle Tons/Year:	3,887	
Main Contact:	Karl Thompson - Public Works Director	kthompson@westonfl.org	Phone No.:	(954) 746-3233		
Address:	2599 S. Post Rd.	City:	Weston	St:	FL	Zip: 33332

Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 17 employees and 1 supervisor

Village of Palm Springs	Revenue	$3,109,000.00	Start Date:	4/1/2008	Expiration Date:	11/1/2019
Number of Homes Serviced:	5,808	Garbage Tons/Year:	5,738	Recycle Tons/Year:	1,284	
Main Contact:	Richard Reade - Village Manager	rreade@vpsfl.org	Phone No.:	(561) 365-4010		
Address:	226 Cypress Ln.	City:	Palm Springs	St:	FL	Zip: 33461

Services are provided with Automated Side Load Trucks. An additional 3,636 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales. 6 employees and 1 supervisor

City of Coconut Creek	Revenue	$5,179,226.00	Start Date:	2/1/1995	Expiration Date:	9/30/2017
Number of Homes Serviced:	9,241	Garbage Tons/Year:	9,130	Recycle Tons/Year:	2,042	
Main Contact:	Alex Tergis	Atergis@coconutcreek.net	Phone No.:	(954) 746-3233		
Address:	4800 West Copans Road	City:	Coconut Creek	St:	FL	Zip: 33064

Services are provided with Automated Side Load Trucks. An additional 11,059 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 6 employees and 1 supervisor. Also a subcontractor for bulk

City of Fort Lauderdale	Revenue	$6,620,376.00	Start Date:	7/31/2019	Expiration Date:	7/30/2023
Number of Homes Serviced:	37,996	Garbage Tons/Year:	59,748	Recycle Tons/Year:	0	
Main Contact:	Melissa Doyle- Environmental Manager	mdoyle@fortlauderdale.gov	Phone No.:	954-828-4357		
Address:	100 North Andrews Avenue	City:	Fort Lauderdale	St:	FL	Zip: 33305

Curbside solid waste and yard waste collection services are provided with Automated Side Load Trucks. Yard waste is 13,694 tons per year. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales. 24 employees and 3 supervisors

City of Weston	Revenue	$8,151,717.00	Start Date:	10/1/2012	Expiration Date:	3/31/2019
Number of Homes Serviced:	17,588	Garbage Tons/Year:	17,377	Recycle Tons/Year:	3,887	
Main Contact:	Karl Thompson - Public Works Director	kthompson@westonfl.org	Phone No.:	(954) 746-3233		
Address:	2599 S. Post Rd.	City:	Weston	St:	FL	Zip: 33332

Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 17 employees and 1 supervisor

Town of Lantana	Revenue	$999,618.00	Start Date:	6/1/2013	Expiration Date:	3/31/2019
Number of Homes Serviced:	3,120	Garbage Tons/Year:	3,083	Recycle Tons/Year:	690	
Main Contact:	Debbie Manzo	dmanzo@lantana.org	Phone No.:	(561) 540-5000		
Address:	225 Greynolds Cir.	City:	Lantana	St:	FL	Zip: 33462

Services are provided with Rear Load Trucks. An additional 1,889 units are serviced at multi-family complexes. Commercial and Industrial services are provided to businesses through an open competitive market. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 6 employees and 1 supervisor

Town of Ocean Ridge	Revenue	$242,512.00	Start Date:	10/1/2009	Expiration Date:	9/30/2019
Number of Homes Serviced:	1,528	Garbage Tons/Year:	1,510	Recycle Tons/Year:	338	
Main Contact:	Tracey Stevens- Town Manager	tstevens@oceanridgeflorida.com	Phone No.:	(561) 732-2635		
Address:	6450 N. Ocean Blvd	City:	Ocean Ridge	St:	FL	Zip: 33435

Services are provided with Rear Load Trucks for Solid waste, recycling, bulk and yard waste. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 3 employees

Public Entity Crimes

PUBLIC ENTITY CRIMES
Page 1 of 3

Section 287.132-133(3)(a), Florida Statutes, effective July 1, 1989 require that no public entity shall enter into a contract, award of bid, or transact business in excess of $10,000.00 with any person or affiliate who has been convicted of a public entity crime. Prior to entering into a sworn statement with the Purchasing Department on form 7088.

A copy of the form is reproduced below. This completed form must be on file prior to the issuing of a Purchasing Order.

Sworn Statement Under Section 287.133(3)(a), Florida Statutes, on Public Entity Crimes

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Solid Waste Services RFP# 21-03-404
(Solicitation Number and Name)

2. This sworn statement is submitted by Republic Services of Florida,Limited Partnership whose business address is 751 NW 31st Avenue, Lauderhill, FL 33311
and (if applicable) it's Federal Employer Identification No. (FEIN) is 065-965470 (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement.

3. My name is Jean-Pierre Turgot and my relationship to the entity named above is General Manager.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity of with an agency or political subdivision of any other state or with the United States, including but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

5. I understand that "convicted or conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding or fault or a conviction of a public entity crime, with or without adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a). Florida Statutes, means:

PUBLIC ENTITY CRIMES

A. A predecessor or successor of a person convicted of a public entity crime; or

B. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of the state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. **(Please indicate which one of the two statements applies.)**

xx Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor the affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, have been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND **(Please indicate which of the three additional statement applies below.)**

___ There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administration Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list.
(Please attach a copy of the Final Order)

___ The person of affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administration Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate form the convicted vendor list.
(Please attach a copy of the Final Order)

___ The person or affiliate has not been placed on the convicted vendor list.
(Please describe any action taken by or pending with the Department of General Services)

PUBLIC ENTITY CRIMES

Page 3 of 3

03/24/2021

Signature Jean-Pierre Turgot

March 25, 2021

Date

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

xx *physical presence OR* ___ *online notarization*

This 25 *day of* March, *20* 21.

By Jean-Pierre Turgot

Personally known xx *OR produced identification* ____

Type of identification produced _____

Joanne Hope Stanley

NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

JOANNE HOPE STANLEY
Notary Public - State of Florida
Commission # HH 007732
My Comm. Expires Sep 26, 2024
Bonded through National Notary Assn.

Qualification Statement

QUALIFICATION STATEMENT
Page 1 of 4

RESPONDER shall furnish the following information. Failure to comply with this requirement will render the solicitation response as non-responsive and shall cause its rejection. Additional sheets shall be attached as required.

RESPONDER'S Name and Principal Address:

Republic Services of Florida, Limited Partnership
751 NW 31st Avenue, Lauderhill, FL 33311

Contact Person's Name & Title: Jean-Pierre Turgot- General manager

RESPONDER'S Telephone: (954) 327-9555

Email jturgot@republicservices.com

RESPONDER'S License Number: 065-965470

(Please attach certificate of status, competency, and/or state registration.)

Number of years your organization has been in business 21

State the number of years your firm has been in business under your present business name 21

State the number of years your firm has been in business in the work specific to this bid: 21

Names and Titles of all officers, partners or individuals doing business under trade name:

Republic Services of Florida, Limited Partnership
Republic Services of Florida, General Partners

The business is a: Sole Proprietorship _____ Partnership x Corporation _____

QUALIFICATION STATEMENT

Page 2 of 4

IF USING A FICTITIOUS NAME, SUBMIT EVIDENCE OF COMPLIANCE WITH FLORIDA FICTITIOUS NAME STATUTE.

Under what former name has your business operated? Include a description of the business. Failure to include such information shall be deemed to be intentional misrepresentation by the City and shall render the proposer bid submittals non-responsive.

All Service Refuse

At what address was that business located?

751 NW 31st Avenue
Lauderhill, FL 33311

Name, address, and telephone number of Surety Company and agent who will provide the required bonds on this contract:

Travelers Casualty and Surety Company of America, Seattle , WA
Amber Engel-206-695-3102

Have you ever failed to complete work awarded to you. If so, when, where and why?

No

Have you personally inspected the proposed work site and do you have a complete plan for its performance?

Yes, we did provide services to North Lauderdale until 2011.

Will you subcontract any part of this work? If so, give details including a list of each subcontractor(s) that will perform work in excess of ten percent (10%) of the contract amount and the work that will be performed by each subcontractor(s).

EWS will be our subcontractor for bulk and yard waste collection services.

*The foregoing list of subcontractor(s) may not be amended after award of the contract without the prior written approval of the City Contract Project Representative, whose approval shall not be reasonably withheld.

QUALIFICATION STATEMENT

Page 3 of 4

List and describe all bankruptcy petitions (voluntary or involuntary) which have been filed by or against the RESPONDER, its parent or subsidiaries or predecessor organizations during the past five (5) years. Include in the description the disposition of each such petition.

Republic Services has never filed for bankruptcy. Please see our annaul report

List and describe all successful Bond claims made to your surety(ies) during the last five (5) years. The list and descriptions should include claims against the bond of the RESPONDER and its predecessor organization(s).

None

List all claims, arbitrations, administrative hearings and lawsuits brought by or against the RESPONDER or its predecessor organizations(s) during the last (10) years. The list shall include all case names; case, arbitration or hearing identification numbers; the name of the project over which the dispute arose; and a description of the subject matter of the dispute.

Please see Section IX in this RFP

List and describe all criminal proceedings or hearings concerning business related offenses in which the RESPONDER, its principals or officers or predecessor organization(s) were defendants.

Republic Services and it management team does not have any criminal proceeding to report

Has the RESPONDER, its principals, officers or predecessor organization(s) been CONVICTED OF A Public Entity Crime, debarred or suspended from bidding by any government entity? If so, provide details.

No, see Section II Required Forms

QUALIFICATION STATEMENT

Page 4 of 4

Are you an [X] Original provider [ ] sales representative [ ] distributor, [ ] broker, [ ] manufacturer [ ] other, of the commodities/services proposed upon? If other than the original provider, explain below.

Republic Services provides solid waste , recycle, bulk and yard waste collection services

Have you ever been debarred or suspended from doing business with any governmental agency? If yes, please explain:

No

Describe the firm's local experience/nature of service with contracts of similar size and complexity, it the previous three (3) years:

Republic Services of Florida, Limited Partnership has held the Exclusive franchise agreement to the following cities.
Sunrise for over 40 years
Coconut Creek for over 23 years
Weston for over 20 years

The RESPONDER acknowledges and understands that the information contained in response to this Qualification Statement shall be relied upon by the CITY in awarding the contract and such information is warranted by RESPONDER to be true. The discovery of any omission or misstatement that materially affects the RESPONDER'S qualifications to perform under the contract shall cause the CITY to reject the solicitation response, and if after the award, to cancel and terminate the award and/or contract.

Print Name of Responder: Jean-Pierre Turgot

Signature of Responder: [signature] 03/24/2021

Title of Responder's Representative: General Manager

Date: March 25, 2021

Scrutinized Vendor Certification

SCRUTINIZED VENDOR CERTIFICATION

Page 1 of 2

Certification Pursuant To Florida Statute § 287.135

I, Jean-Pierre Turgot- General Manager (Print Name and Title), on behalf of Republic Services of Florida, Limited Partnership (Contractor Name),

Certify that Republic Services of Florida, Limited Partnership (Contractor Name) does not:

1. Participate in a boycott of Israel; and
2. Is not on the Scrutinized Companies that Boycott Israel List; and
3. Is not on the Scrutinized Companies with Activities in Sudan List; and
4. Is not on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
5. Has not engaged in business operations in Syria.

Submitting a false certification shall be deemed a material breach of contract. The City shall provide notice, in writing, to the Contractor of the City's determination concerning the false certification. The Contractor shall have ninety (90) days following receipt of the notice to respond in writing and demonstrate that the determination of false certification was made in error. If the Contractor does not demonstrate that the City's determination of false certification was made in error then the City shall have the right to terminate the contract and seek civil remedies pursuant to Florida Statute § 287.135.

Section 287.135, Florida Statutes, prohibits the City from: 1) Contracting with companies for goods or services in any amount if at the time of bidding on, submitting a proposal for, or entering into or renewing a contract if the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, F.S. or is engaged in a boycott of Israel; and 2) Contracting with companies, for goods or services over $1,000,000.00 that re on either the Scrutinized Companies with activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473, or are engaged in business operations in Syria.

SCRUTINIZED VENDOR CERTIFICATION

Page 2 of 2

As the person authorized to sign on behalf of the Contractor, I hereby certify that the company identified above in the section entitled "Contractor Name" does not participate in any boycott of Israel, is not listed on the Scrutinized Companies that Boycott Israel List, is not listed on either the Scrutinized Companies with activities in the Iran Petroleum Energy Sector List, and is not engaged in business operations in Syria. I understand that pursuant to section 287.135, Florida Statutes, the submission of a false certification may subject the company to civil penalties, attorney's fees, and/or costs. I further understand that any contract with the City for goods or services may be terminated at the option of the City if the company is found to have submitted a false certification or has been placed on the Scrutinized Companies with Activities in Sudan list or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Republic Services of Florida, Limited Partnership

Company Name

03/24/2021

Signature

Jean-Pierre Turgot

Print Name

General Manager

Title

Vendor Contact Summary

VENDOR CONTACT SUMMARY

THIS FOLLOWING MUST BE COMPLETED IN ITS ENTIRETY INCLUDING THE SIGNATURE OF AN AUTHORIZED REPRESENTATIVE WHERE INDICATED BELOW AND SUBMITTED WITH THE SOLICITATION. FAILURE TO PROVIDE THIS DOCUMENT, WITH THE SOLICITATION RESPONSE, WILL RESULT IN BID BEING CONSIDERED NON-RESPONSIVE.	
Bidder's Name and state "Doing Business As", if applicable: Republic Services of Florida, Limited Partnership	
Address: 751 NW 31st Avenue	**City:** Lauderhill
State: FL **Zip Code:** 33311	**Federal Tax Identification Number:** 065-0965470
Telephone Number: 954-327-9555	**Toll Free Number:**
Contact: Jean-Pierre Turgot General Manager	**E-Mail Address of Authorized Representative:** jturgot@republicservices.com
"REMIT TO" ADDRESS FOR PAYMENT: If payment(s) is/are to be mailed to address other than as stated on left, please complete section below.	
Address: P.O. Box 9001099	**City:** Louisville
State: KY **Zip Code:** 40290-1090	**Telephone Number:** 954-327-9555
Contact: Mike Rizopoulos- Finance Manager	**Toll Free Number:** N/A

Signature of Authorized Representative (Manual)

Jean-Pierre Turgot 03/24/2021

Name of Authorized Representative (Typed or Printed)

General Manager

Title

Vendor Ownership and Demographic Form

City of North Lauderdale *Purchasing and Contracts Division*

CITY OF NORTH LAUDERDALE
VENDOR OWNERSHIP SURVEY

Contact:	Agency:	Contact E-mail:
Jean-Pierre Turgot	Republic Services of Florida, Limited Partnership	jturgot@republicservices.com

Vendor Name: Republic Services of Florida, Limited Partenrship_____

Using the drop-down menu to the right to answer the questions below:

1. Does your firm employ more than 50 persons (including full-time and part-time employees)	**Yes**
2. Is your firm a construction firm?	**No**
2A: If YES to number 2 above, is the average annual gross revenue for your firm for the past three (3) years greater than $9 million?	**Choose an item.**
2B: If NO to number 2 above, is the average annual gross revenue for your firm for the past three (3) years greater than $5 million?	**Yes**
3. Which of the following best describes the gender of your firm's primary owner (at least 51% ownership):	**Not Applicable**
4. Which of the following best describes the ethnicity of your firm's primary owner (at least 51% ownership): If you chose "Other", Please indicate: ___Limited Partnership_____	**Other (not listed above)**
5. Which of following best describes the primary owner's veteran status (at least 51% ownership):	**Not Applicable**
6. Is your firm located within the city limits of North Lauderdale?	**No**
7. If your firm has been certified as a Small Business (SBE), a Women Owned Business (WBE), a Minority Owned Business (MBE) a Veteran Owned Business (VBE), or a Certified Business Enterprise (CBE) please indicate the agency or agencies that have granted the certification to your firm. (If you choose "other" please indicate the name or names of the certifying agency(ies)): _____	**N/A**

Please save and email this document to:

Andrew Rozwadowski
Purchasing & Contracts Manager
City of North Lauderdale
Phone: (954) 597-4776
ARozwadowski@nlauderdale.org

III. Overview of Evaluation Criteria

Each Proposal shall be evaluated in the light of the following criteria

- The Proposer's qualifications and experience
- The Proposer's past performance
- The Proposer's plan for providing service to the city
- The Proposer's capabilities
- The Proposer's added value and enhancement
- The Proposer's price

Executive Summary

An overwhelming majority of municipalities extend their current contracts with Republic Services because of our partnerships and local expertise, offering Simple Solutions, Reliability, and Environmental Responsibility.

Best Value

The Republic Services team is passionate about our role as responsible stewards of our nation's waste. We believe in a cleaner, safer, and healthier world where people thrive – not just for today but also for generations to come.

A Commitment to Excellence

We know that by offering differentiated products, services, and experiences designed to meet our customers' wants and needs, we drive customer loyalty and increase willingness to pay. In 2019, we continued to invest in and enhance our customer-facing technology, including our website and mobile app. We also unveiled our new "RISE" platform to transform our

Republic Services is your low-risk, best value partner

- 197 employees live within Broward County
- 40 plus years continuously serving Broward County
- Reliable – 99.9% pickup rate
- Environmental Responsibility – approximately 20% of the fleet operates on natural gas
- Safer – 40% fewer incidents than the industry average
- Simple Solutions – manage your account with the Republic Services app
- Named to the CDP Climate "A List"
- Named to the Dow Jones Sustainability Indices – North America and World - for the fourth straight year
- For the fourth straight year - Named to the World's Most Ethical Companies List® by the Ethisphere® Institute for the fourth year in a row
- 3 fully staffed, US-based, national Customer Resource Centers

*Figure 1. **Your Low-Risk, Best Value Partner.** Republic Services is proud to lead the industry in many key factors that make us your preferred municipal recycling and waste services partner.*

Strengths of our Company	Benefits to Municipality
99.9% On-time reliability rate	Happy community; fewer calls to city hall
40% safer than the industry average	Fewer incidents; safer community streets for children at play
Simple Solutions for your community waste and recycling needs	Easy access to solutions for the growing number of waste streams
Recognized globally on Dow Jones Sustainability Index	Peace of mind that you have a global leader in sustainable initiatives as your partner
Most advanced, integrated Customer Resource Centers in the industry	Longer customer service hours, with hundreds of trained agents networked together nationwide
Web- and smartphone-based apps for easy access by community residents to relevant information	Stronger communications and ease of alert and news dissemination
Robust community education and outreach	Communities educated on recycling produce less contamination and greater diversion

dispatch operations. This technology equips our dispatchers with real-time routing information and enhanced data visualization tools. Over time, this platform will significantly increase connectivity with our customers, further empowering our employees, improving productivity, and transforming our overall operations.

We know our customers care about recycling, and they have demonstrated a willingness to pay for it. We continue to make progress working with our municipal partners in transforming recycling into a more durable, economically sustainable business model. Recycling is essential to our sustainability platform, and we continue to invest in the business for the long term.

We'll handle it from here™, our promise, lets customers know they can always rely on us to handle their recycling and waste needs in a way that is easy and effortless.

There is undeniable energy of excellence at Republic Services, and it is surging through everything we do. Excellence is the essence of our growth through differentiation strategy.

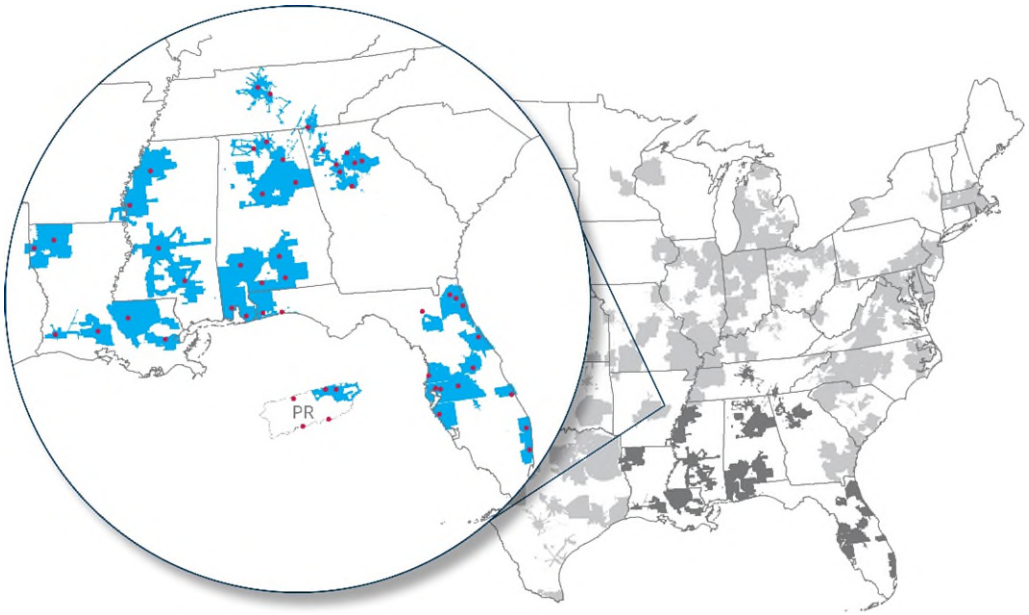
We believe that excellence means being better than competitors at everything we do every day. We begin by actively listening to our customers. We seek out thousands of conversations each month, mining for insights into customer wants and needs. Those insights lead to innovation. Our innovation brings about simple solutions for our customers. We configure products and services to the individual customer at the right price.

Next, we make it an effortless and enjoyable experience. We enable customers to interact with us on their terms: online, in-person, or by phone. Then, the best people deliver a superior product or service, fulfilling and exceeding our promise every time.

This zeal for our customers has brought forth new and exciting changes. From operations to talent to technology, we are focused on not just meeting the needs of our millions of customers but exceeding them.

Low-cost providers in the industry sacrifice one or more of these elements, translating to risk to your municipality. Republic Services is your best-value partner through

*Figure 2. **Local accountability backed by national support.** Our North Lauderdale operations are backed by our corporate-wide strength and experience, incorporating best practices from other local operations.*



our proven and demonstrated balance of these factors while serving more than 2,400 municipal contracts today.

Local Leadership with National Support

Our local team is vital to the successful delivery of this contract and its daily operations. This team's unique combination of collection experience, recycling expertise, and innovative management systems ensure quality service for the duration of the contract. Our local and area management teams have extensive industry experience operating and managing solid waste companies and have substantial experience in the region.

Because we retain experienced managers with extensive knowledge of their local communities, we are proactive in anticipating customers' needs and adjusting to changes in the markets. We also seek to

*Figure 3. **Five Elements of Sustainability.** These commitments are reflected in the way we do business and guided by the five elements of our sustainability platform.*



implement the best practices of our various business units throughout our operations to continue improving our operations and service to our customers.

While our local business operation is fully empowered and accountable for delivering on our commitments, they are also backed by the support and breadth of our area and corporate leadership teams, capable of amassing expertise and support to assist or respond to any challenge. An example of this benefit to you is the response capabilities during times of crisis, such as the recent coronavirus (COVID-19) pandemic, hurricanes, tornados, or other disasters. In times of challenges like this, our area and corporate teams activate to ensure our people are safe and our assets are operational to return to normal operations quickly. This is a considerable benefit and risk mitigation to North Lauderdale that many other providers in the industry are unable to stand behind.

Sustainability

The breadth and scope of our sustainability platform are earning noteworthy recognition. From products that create solutions for our customers to an industry-leading safety program and a fleet that reduces its carbon impact to landfills that generate renewable energy, we are leading in every way possible. Sustainability contributes to a cleaner world while also providing opportunities to improve brand awareness, increase customer loyalty, grow our business, motivate our employees and differentiate Republic Services from our competitors.

We are guardians of our environment and have a responsibility to regenerate our planet with the materials we are entrusted to handle every day by driving increased recycling, generating renewable energy, and helping our customers be more resourceful.

We must lead by example, working diligently to improve our relationship with the environment and society through decreased vehicle emissions, innovative landfill technologies, use of renewable energy, community engagement, and employee growth opportunities. We are privileged to serve millions of customers across the country, creating effortless experiences that support your evolving needs and honor your

Figure 4. ***Recognition supports our approach.*** *Engaged employees and leadership make Republic Services an employer of choice.*



unique commitments to improving your communities. Republic Services' multifaceted, enterprise-wide sustainability platform continues to revolve around five elements: Operations, Materials Management, Communities, Safety, and People.

Operations

We exercise the utmost responsibility in our operations. This includes our fleet, buildings, landfill technology, and the day-to-day activities we conduct in our communities. We are working hard to understand and measure our impact on air, land, and water to minimize or eliminate any negative consequences, where possible.

Materials Management

We recognize the responsibility and opportunity we have in managing the nation's waste stream to provide a source of recovered and renewable materials and energy to the economy. We are innovative and constantly exploring new options to capture value and energy from materials in the waste stream while ensuring environmental responsibility and sustainability.

Communities

We are dedicated to being a good neighbor in the communities in which we live and work. This includes investing back into our communities through customer engagement, philanthropic giving, volunteerism, environmentally responsible infrastructure, and operating in our markets at the highest standards.

Republic Services' community engagement plan is based on the needs of the community-based organizations and civic and business entities of North Lauderdale.

*Figure 5. **An industry-leading safety program** that has been 39% better than the industry average.*



Safety

We prioritize safety above all else. When people feel safe, they can fully participate every day in the available opportunities.

Republic Services has a consistently low and trending lower occurrence of incidents and accidents and is known for our strict focus on safety and corresponding best in industry, multi-faceted, and well-organized safety program. According to the Department of Labor, Bureau, and Statistics Data, Republic Services' average OSHA scores are 39% lower than the average OSHA scores for the waste industry. Employees, the public, and rate payers all benefit from Republic Services' dedication to safety. We have been and will continue to strive to be the safest waste services company in America.

People

Engaged employees are the greatest indicator of our success. We provide ongoing job training, growth, and development opportunities for our employees at every level. We are invested in them and continue to look for meaningful ways to demonstrate our appreciation for the hard work and dedication they show every day.

Republic Services is a local company staffed with a committed team of nearly 197 professionals who take personal responsibility for serving customers with care. Republic Services is also an industry leader providing the strength of our national network, decades of experience, diversified capabilities, and expertise serving clients of all sizes. A few years ago, Republic Services made a major commitment to further differentiate ourselves from competitors by investing in enhancing the quality and reliability of our customer service

capabilities. To accomplish this, we consolidated hundreds of small call centers into three state-of-the-art, fully integrated Customer Resource Centers located in Phoenix, AZ, Indianapolis, IN, and Charlotte, NC. These facilities are strategically located across the country to ensure we can deliver call support when customers need it the most. Based on data from more than 12 million touches with customers, we have found the optimal operating hours are Monday through Friday from 7:30 a.m. to 5 p.m. for each time zone across the continental US.

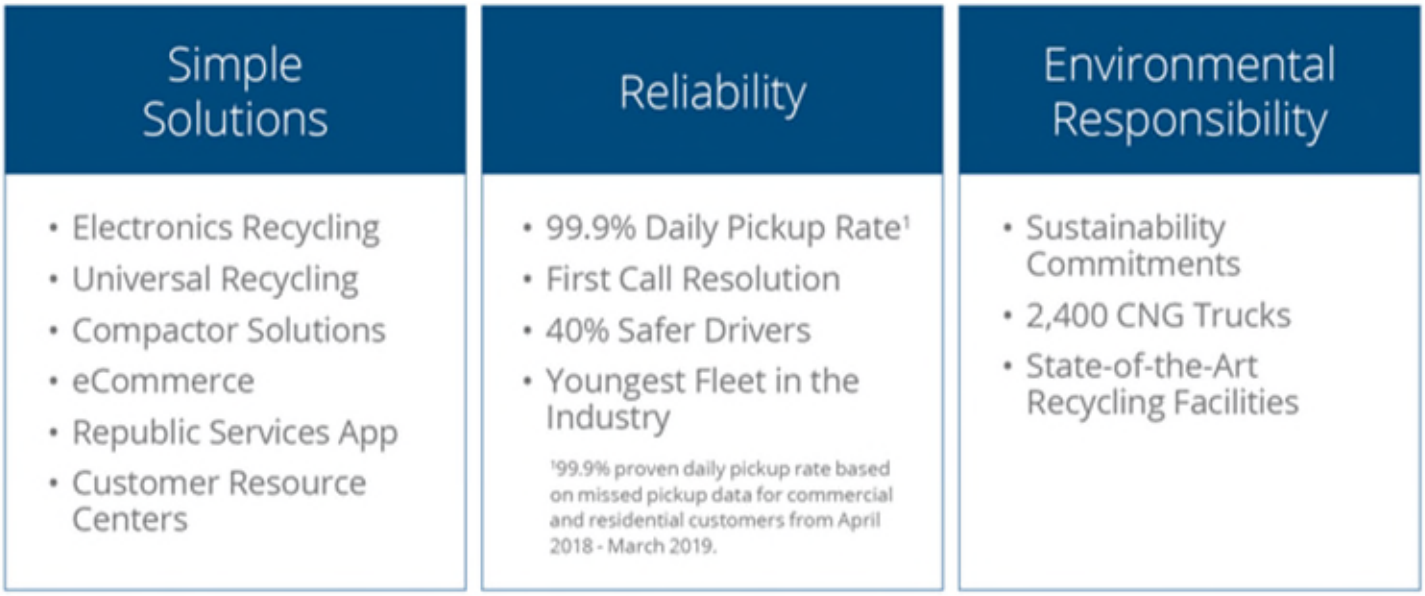
Our Promise

We'll handle it from here™. Our promise is backed by the details of this proposal submittal to you. In summary, we take pride in offering you a best-value partnership that consists of Simple Solutions, which are Reliable and Environmentally Responsible.

- **Simple Solutions** – We offer a wide range of tailored products to assist the community in the responsible recycling or disposal of unique waste streams that include electronics, bulb and battery waste, or household hazardous waste. Additionally, our investments in customer-facing web- and smartphone-based apps allow simple interaction between customers and Republic Services, offering service details, alerts, delivery schedules, and billing information.
- **Reliability** – Our operations and performance metrics prove that we are your most reliable partner. Our 99.9% pickup reliability rate means that you face fewer calls from the community regarding service. When callers reach out to us for any needs, we strive for the first-call resolution through our fully integrated customer resource centers. Additionally, our tenure drivers are the safest in the industry, which means your residents are better off with our team on your streets.
- **Environmental Responsibility** – We are globally recognized as a leader in sustainability. Our investments in recycling infrastructure, compressed natural gas-powered trucks, and landfill gas-to-energy plants are all examples of how we drive to be a good neighbor in every municipality we partner with.

It is through these initiatives and recognitions that we reiterate our

Figure 6. Republic Services focuses on these characteristics enabling us to be your preferred recycling and waste partner.



commitment to North Lauderdale. On behalf of the 36,000 employees at Republic Services, we appreciate the opportunity to earn your business through this submittal and look forward to a long and continued partnership for years to come.

*Figure 7. **Republic Services is proud** to partner with our more than 2,400 communities across the country and our achievements on the sustainability platform.*



IV. Experience and Ability

Republic Services is one of the country's leading municipal recycling and waste services providers, serving more than 2,400 communities, with millions of customers in 40 states.

Local Presence

For 40 plus years, Republic Services has partnered with municipalities, residents, and businesses in Broward County to provide solid waste, recycling, yard waste, and bulk item collection services.

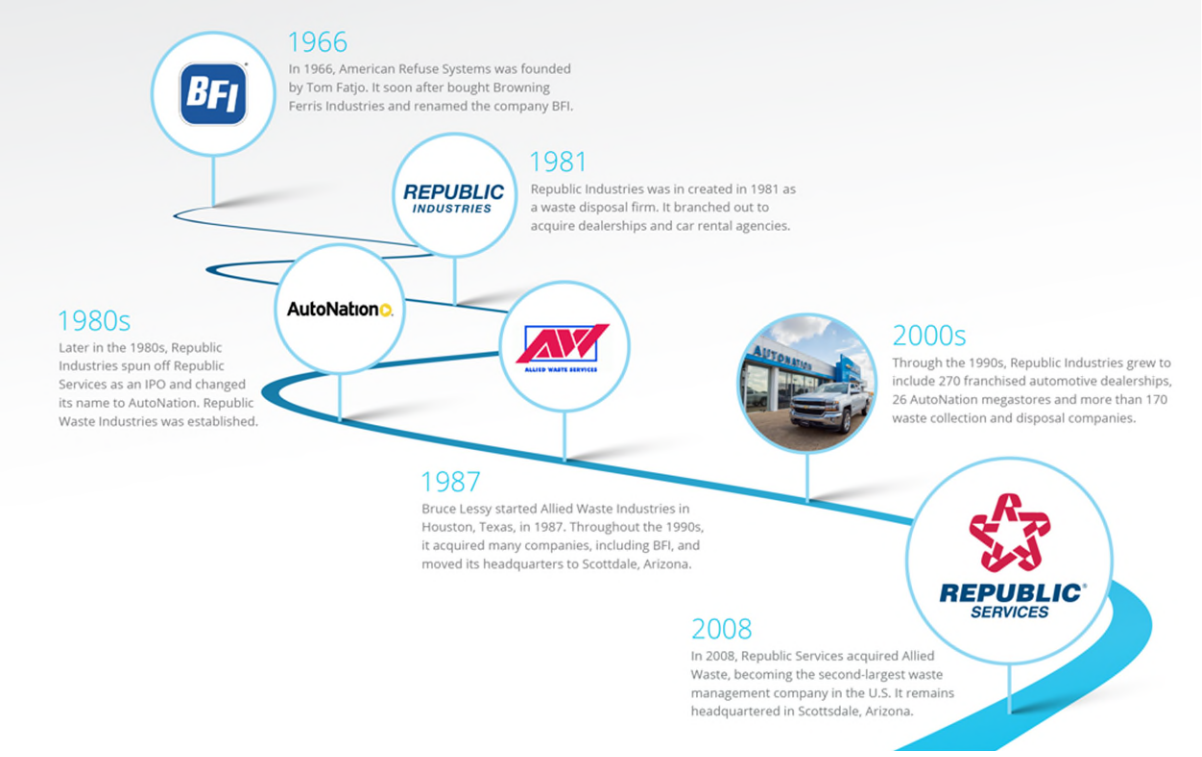
Republic Services is integrated into the community, employing approximately 197 people within Broward County.

We place great importance on our human capital and recognize that our employees are our most important asset. Republic Services endeavors to provide the very best working conditions, including a safe

Republic Services invests in our communities by continuing to provide customers with safe, customer service-focused solutions

- Municipalities that partner with Republic Services choose to renew or extend their contracts over 85% of the time
- Our 15,000 drivers execute 4.9M pickups/day
- The average tenure of Republic Services Municipal customer is more than 12 years
- As a corporate partner, we sponsor and are present in the communities we serve
- Over 100,000 residential customers, 6800 commercial and industrial customers in Broward County
- Republic Services deploys 90 trucks daily from its local collection operations

Figure 8. ***Company History****. Today's Republic Services is the product of three former Industry leaders.*

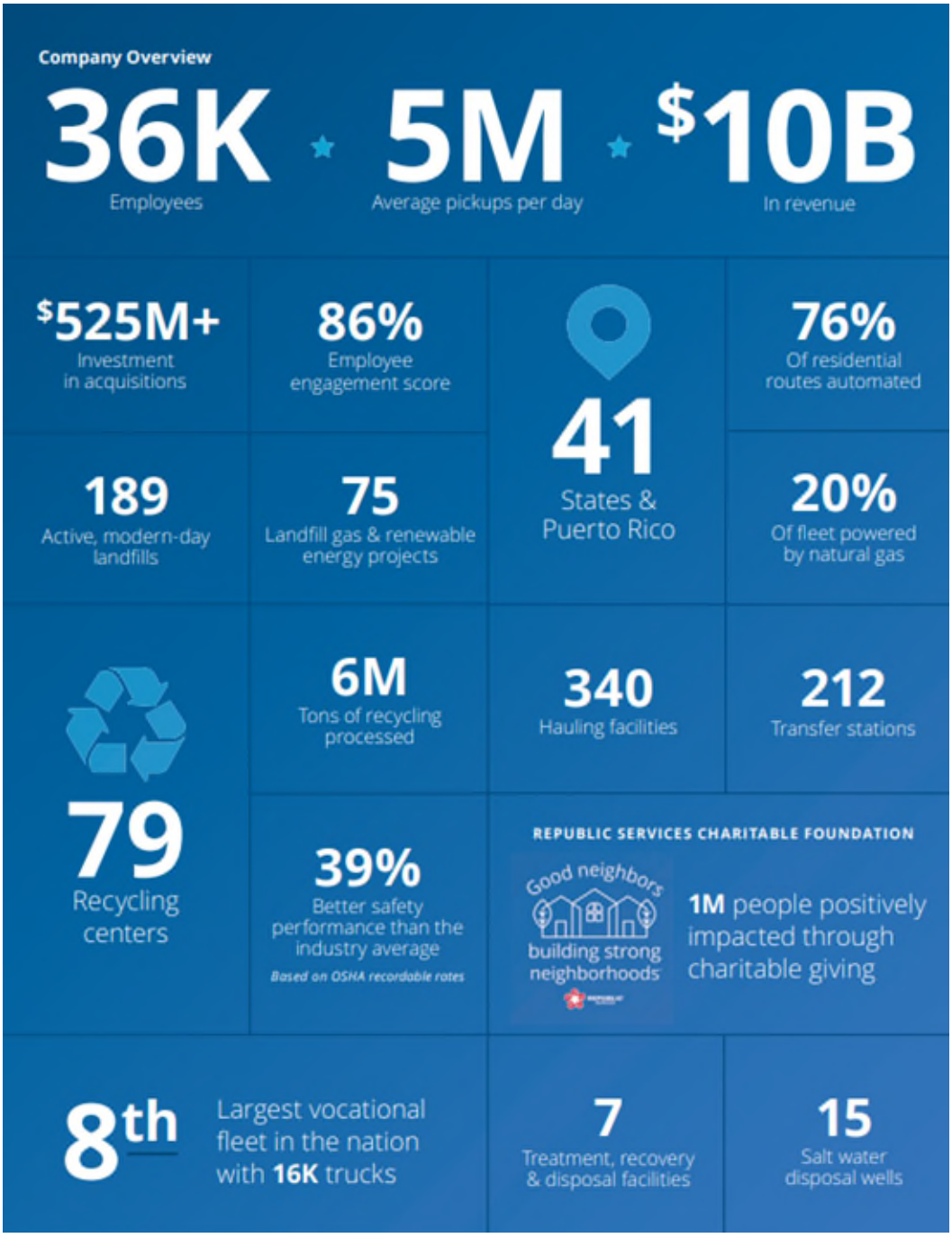


environment, competitive pay and benefits, and many opportunities for professional growth. In fact,65% of our supervisors and managers began their careers at Republic Services as drivers, landfill operators, or technicians.

Our Company

Republic Services is an industry leader in the non-hazardous solid waste industry with revenues of more than $10 billion and over

*Figure 9. **Key Company Statistics**. Republic Services is an industry leader in the U.S. non-hazardous solid waste industry.*



36,000 dedicated employees. Figure 8 shows our lineage, which includes three of the industry's most recognized brands combined in 2008. All our legacy brands operate today as a part of the Republic Services family.

Republic Services' collection companies, transfer stations, recycling centers, and landfills focus on providing effortless solutions for our millions of commercial, industrial, and residential customers. Republic Services responsibly operates 340 collection operations, 212 transfer stations, 189 active solid waste landfills, and 79 recycling centers across 41 states. We also have 75 landfill gas and renewable energy projects and are adding new facilities every year. Our Energy Services vertical has 7 treatment, recovery, and disposal facilities and 15 saltwater disposal wells.

With more than 16,000 vehicles, Republic Services deploys the 8th largest vocational fleet in the U.S. to collect approximately 100 million tons of waste and over eight million tons of recyclables.

Vision

Republic Services' vision is to be America's preferred recycling and waste services, partner. We earn this by providing our customers with simple solutions, reliability, and environmental responsibility, wrapped with a level of service unmatched anywhere else in our industry.

*Figure 10. **Environmental Responsibility**. We believe there will always be more we can do to enhance our sustainability efforts and, in the process, strengthen our business.*



Values

We believe that empowered and engaged employees are the greatest indicator of our success. The principles guide us we have adopted as our core values – to be Respectful, Responsible, Reliable, Resourceful, and Relentless in all we do every day. We are reminded of these principles every time we see the five R's joined together to form the Republic Services' Star.

Strategy

Our strategy is profitable growth through differentiation. Simply put, we hire the best people that deliver the best products that best meet our customers' needs.

Our Promise

We'll handle it from here™, our promise, lets customers know they can always rely on us to handle their recycling and waste needs in a way that is easy and effortless for them.

Sustainability

At Republic Services, we are dedicated environmental stewards entrusted to properly handle materials every day by driving increased recycling, generating renewable energy, and helping our customers be more resourceful. Republic Services leads by example, working diligently to improve our relationship with the environment and society through decreased vehicle emissions, innovative landfill technologies, use of renewable energy, community engagement, and employee growth opportunities.

Sustainability contributes to a cleaner world while also providing opportunities to increase customer loyalty, grow our business, motivate our employees and differentiate Republic Services from our competitors.

People

Our people are the center of our success. Attracting, developing, and engaging the best talent is critical to our strategy of profitable growth through differentiation. Whether it's through our dedication to safety, robust learning, and talent development programs, or expanding our diversity and inclusion initiative, Mosaic, we are committed to making Republic Services an employer of choice where the best and brightest come to work.

Leadership

Republic Services' operations are national in scope. Still, the physical collection and disposal of waste is very much a local business, and the dynamics and opportunities differ in each of our markets.

Our national presence allows us to identify and incorporate best practices that drive greater overall operating efficiency across the company while maintaining day-to-day operating decisions at the local level, closest to the customer. We manage our operations through ten geographic operating areas, consisting of multiple divisions that each provide recycling and waste collection, transportation, and disposal services.

Your municipal contract will be executed locally by our seasoned team located at **751 NW 31st Avenue, Lauderhill, FL 33311.** This team is fully empowered within our company structure to deliver on our promise to be your preferred recycling and waste provider. This local team is only two levels removed from our corporate staff, which means the backing and support of a national company is accessible at a moment's notice.

Ownership

Republic Services, Inc. is a publicly-traded company on the New York Stock Exchange

(NYSE symbol: RSG).

Ownership beyond five percent

The following figure shows certain information as of May 2020, with respect to the ownership of common stock by each shareholder who is known by Republic Services to own more than 5 percent of our outstanding common stock:

Figure 12. Ownership beyond five percent.

Name of Owner	% Outstanding Shares
Cascade Investment, LLC	**34.18%**
BlackRock, Inc.	**5.52%**
The Vanguard Group, Inc.	**6.15%**

Credit Rating

Republic Services, Inc. has an "investment grade" rating. No creditor is owed a debt greater than 10 percent of the company's total assets.

Associations

Republic Services is a member of the following associations and organizations, among others. Our employees are actively engaged in these organizations and, in many cases, serve on the board of directors and/or are elected officers.

- National Waste & Recycling Association (NWRA)
- Solid Waste Association of North America (SWANA)
- Environmental Research and Education Foundation (EREF)
- United States Green Building Council (USGBC)U.S. Conference of Mayors, Solid Waste Advisory Council
- National League of Cities (NLC)
- International City Managers Association (ICMA)

Awarded Contracts

Figure 11. ***Republic Services is a proud member*** *of our industry association as well as many other trade associations.*



Republic Services of Florida, Limited Partnership has always fulfilled any contracts it has been awarded.

Routing Optimization

Establishing the most optimized routes for a community has dramatic effects on the quality of service, safety, and efficiency of the collection operation through shorter routes, safety in the neighborhoods, and ultimately the wear and tear on the streets within the municipality.

We conduct a proven route optimization process, which involves a tight collaboration between the local team and our corporate route optimization team. Through several iterations, these teams collaborate, sharing local knowledge and details while running our optimization processes to yield the best routes possible for your community. An example of this process is that we evaluate planned routes to ensure that trucks are not conducting collection on streets during times known for congestion or traffic.



Employees and Supervisors

Republic Services estimates that they will need a total of 9 drivers and two helpers. Republic Services will be subcontracting the Bulk/yard waste to EWS for the entire term of the agreement. There will also be a dedicated supervisor for the City of North Lauderdale. Our Customer Service call center will handle all calls from the residents and businesses in the City of North Lauderdale.

Notifications and Samples

Republic Services will send annual notices and magnets per the RFP.

REPUBLIC SERVICES / Palm Bay, Florida

Republic Services
2575 Jonesthra Fields Ave. NE
Palm Bay, FL 32905

Welcome to Republic Services®

Your New Solid Waste Service

The City of Palm Bay's new solid waste services will be provided by Republic Services.

- Beginning October 1, 2020, residents will receive 2 times per week trash service and 1 time per week recycle, yard waste and bulk service for $23.50.
- Base service includes one trash and one recycle cart.
- Each resident will have the option of a 96 , 64 , or 35 gallon trash cart.
- Additional trash carts are available for $8.79 per cart per month.
- For your route information, visit the City of Palm Bay website at: https://www.palmbayflorida.org/services/city-services/trash-and-recycling.
- For customer service, call Republic Services at 321.989.6030 (8 a.m. - 5 p.m.) or visit RepublicServices.com.
- To start new service or for billing questions, contact the City of Palm Bay at 321.952.3420.

2020 Residential Holiday Schedule

Veteran's Day – Wednesday, November 11, 2020
Recycling, yard waste and bulk waste will be collected on Saturday, November 14, 2020.

Thanksgiving Day – Thursday, November 26, 2020
Solid waste, recycling, yard waste and bulk waste will be collected on Saturday, November 28, 2020.

Christmas Day – Friday, December 25, 2020
Solid waste, recycling, yard waste and bulk waste will be collected on Saturday, December 26, 2020.

2021 Residential Holiday Schedule

Memorial Day – Monday, May 31, 2021
Solid waste, recycling, yard waste and bulk waste will be collected on Thursday, June 3, 2021.

July 4th – Sunday, July 4, 2021
No service change.

Veteran's Day – Thursday, November 11, 2021
Solid waste, recycling, yard waste and bulk waste will be collected on Saturday, November 13, 2021.

Thanksgiving Day – Thursday, November 25, 2021
Solid waste, recycling, yard waste and bulk waste will be collected on Saturday, November 27, 2021.

Christmas Day – Saturday, December 25, 2021
No service change.

Simple account access. Anytime. Anywhere.

Manage your account from home or on the go with the Republic Services app.
Visit **RepublicServices.com/Account** to access your account or download the app, so you can:

- ✓ Schedule a pickup
- ✓ Report a missed pickup
- ✓ Find new products and services
- ✓ Rate your service
- ✓ Repair a container
- ✓ And more



ONLY place these items in the recycling container:



PAPER
Paper (staples okay)
Newspapers
Envelopes
Mail
Phone books
Brochures
Magazines



CARDBOARD
Flattened cardboard boxes
Food boxes with liners removed
File folders
Poster board
(remove any food or liquid)



PLASTICS
ONLY
1 2
Water bottles
Soda bottles
Milk jugs
Shampoo bottles
Detergent containers



METAL
Aluminum beverage cans
Food cans
(remove any food or liquid substance from metal and plastics)

NEVER place these items in the recycling container:



Plastics #2: pipes, fencing, shower curtains, lawn chairs, window profiles, children's toys.
Plastics #6: Plastic utensils, desk accessories, video cassettes, polystyrene foam, coffee cup lids.

All household hazardous waste must be dropped off at the Sarno Landfill Drop-off Center, 3379 Sarno Road, Melbourne, FL.
https://www.palmbayflorida.org/services/city-services/trash-and-recycling

Household Hazardous Waste Unacceptable Items

The items below are considered household hazardous waste and cannot be placed in curbside carts. A free drop-off location is listed below. Thank you for keeping our environment and your community safe.

Sarno Landfill Drop-off Center
3379 Sarno Road, Melbourne, FL
Monday - Saturday, 8 a.m. - 4 p.m. | 321.633.2042

Household Hazardous Waste Products in the Home:



Household Hazardous Waste Products Around the Home/In the Garage:



Household Hazardous Waste Products in the Yard:



REPUBLIC SERVICES
We'll hand it from here.

Florida Municipal References

Republic Services
Municipal Contracts - Florida

Republic Services has an extensive background in providing municipal waste and recycling collection services with over 2,400 contracts nationwide. Listed below are some of the great partnerships that we manage in Florida.

City of Sunrise	Rate:	$14.71	Start Date:	7/1/1996	Expiration Date:	9/30/2024		
Number of Homes Serviced:	39,740	Garbage Tons/Year:	39,263	Recycle Tons/Year:	8,783			
Main Contact:	Antonio Thompson- Solid Waste Coordinator	athompson@sunrisefl.gov	Phone No.:	954-577-1135				
Address:	10770 W. Oakland Park Blvd	City:	Sunrise	St:	FL	Zip:	33351	

Services are provided with Rear Load Trucks. An additional 19,132 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided seven days per week. Republic has serviced the City for 40 plus years.

St. Johns County	Rate:	$13.53	Start Date:	6/1/2014	Expiration Date:	7/31/2024		
Number of Homes Serviced:	61,342	Garbage Tons/Year:	59,011	Recycle Tons/Year:	17,943			
Main Contact:	Greg Caldwell-Assistant Public Works Director	gcaldwell@sjcfl.us	Phone No.:	(904) 209-0132				
Address:	3005 Allen Nease Rd.	City:	Elkson	St:	FL	Zip:	32033	

Services are provided with Rear Load Trucks. Commercial and Industrial services are provided to businesses through an open competitive market.

City of Lake Wales	Rate:	$15.87	Start Date:	7/1/2001	Expiration Date:	9/30/2024		
Number of Homes Serviced:	5,167	Garbage Tons/Year:	5,105	Recycle Tons/Year:	1,142			
Main Contact:	James Slaton - City Manager	jslaton@lakewalesfl.gov	Phone No.:	(954) 746-3233				
Address:	201 W. Central	City:	Lake Wales	St:	FL	Zip:	33853	

Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided seven days per week.

Republic Services
Municipal Contracts - Florida

City of Coconut Creek	Rate:	$16.15	Start Date:	2/1/1995	Expiration Date:	9/30/2026	
Number of Homes Serviced:	25,122	Garbage Tons/Year:	24,821	Recycle Tons/Year:	5,552		
Main Contact:	Alex Tergis Assistant Public Works Director	atergis@coconutcreek.net	Phone No.:	(954) 545-6623			
Address:	4800 Copans Road	City:	Coconut Creek	St:	FL	Zip:	33064
Services are provided with Automated Side Load Trucks. An additional 11,059 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week.							

City of Weston	Rate:	$18.51	Start Date:	10/1/2012	Expiration Date:	3/31/2024	
Number of Homes Serviced:	25,541	Garbage Tons/Year:	25,235	Recycle Tons/Year:	5,645		
Main Contact:	Karl Thompson - Assistant City Manager	kthompson@westonfl.org	Phone No.:	954 285-2000			
Address:	2599 S. Post Rd.	City:	Weston	St:	FL	Zip:	33332
Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week.							

City of Frostproof	Rate:	$15.48	Start Date:	7/1/2006	Expiration Date:	6/30/2024	
Number of Homes Serviced:	987	Garbage Tons/Year:	975	Recycle Tons/Year:	218		
Main Contact:	Nicole McDowell - City Manager	NMcdowell@cityoffrostproof.com	Phone No.:	(863) 635-7832			
Address:	111 West First St.	City:	Frostproof	St:	FL	Zip:	33843
Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week.							

Republic Services

Municipal Contracts - Florida

City of Haines City	Rate:	$14.41	Start Date:	1/1/2006	Expiration Date:	12/31/2023	
Number of Homes Serviced:	9,150	Garbage Tons/Year:	9,040	Recycle Tons/Year:	2,022		
Main Contact:	Deric Feacher - City Manager		dfeacher@hainescity.com	Phone No.:	(863) 421-3777		
Address:	620 E. Main St.	City:	Haines City	St:	FL	Zip:	33844
Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Republic has serviced the City for 40 years.							

City of Oviedo	Rate:	$17.66	Start Date:	10/1/2008	Expiration Date:	9/30/2020	
Number of Homes Serviced:	11,173	Garbage Tons/Year:	11,039	Recycle Tons/Year:	2,469		
Main Contact:	Joe Grusauskas - Solid Waste Director		jgrusauskas@cityofoviedo.net	Phone No.:	(407) 971-5644		
Address:	400 Alexandria Blvd	City:	Oviedo	St:	FL	Zip:	32765
Services are provided with Automated Side Load Trucks. Commercial and Industrial services are provided to businesses through an open competitive market.							

Hilllsborough County, FL	Rate:	z1:$9.71 z3:$13.41	Start Date:	10/1/2013	Expiration Date:	1/31/2022	
Number of Homes Serviced:	110,000	Garbage Tons/Year:	85,789	Recycle Tons/Year:	27,591		
Main Contact:	Kim Byer-Director of Solid Waste		byerk@hillsboroughcounty.org	Phone No.:	813-272-5680		
Address:	332 N. Falkenburg Rd	City:	Brandon	St:	FL	Zip:	33619
Service residential customers with automated side load trucks in 2 of 5 zones. Commerical is franchised to the 3 residential haulers and industrial is open market.							

Republic Services

Municipal Contracts - Florida

City of Gulf Breeze	Rate:	$15.71	Start Date:	2/1/2018	Expiration Date:	1/31/2023	
Number of Homes Serviced:	2,134	Garbage Tons/Year:	644	Recycle Tons/Year:	99		
Main Contact:	Samantha Abell-City Manager	sabell@gulfbreezefl.gov	Phone No.:	850-203-6033			
Address:	P.O. Box 640	City:	Gulf Breeze	St:	FL	Zip:	32562
Services we provide are residential MSW, Recycling, and YW cart containerized serviced with ASL trucks. Commercial and Industrial are included in executive franchise.							

Facilities

Our business is to help you and your residents be environmentally responsible in their homes and workplaces. As you would expect, we strive to be exemplary in our environmental compliance and responsibility.

Our facilities are engineered for safe, environmentally friendly operations. We use sustainable materials that facilitate energy and water conservation and design principles to enhance employee and guest safety and comfort.

Providing great recycling and waste services to your community requires the existence of multiple types of facilities, which typically include:

- Hauling company
- Transfer station

Following is a brief description of each of our most common facility types. One or more of these facility types may reside at the same physical address/location in a city.

Hauling Company

A hauling company is where the community recycling and waste collection services are based. These facilities typically serve several important functions that are critical to delivering exceptional service to your residents:

*Figure 13. **Hauling Company**. Our hauling operations are the core of the collection service to your community, offering a truck fleet with the most tenured drivers in the industry.*



Facilities that work with the environment are basic design elements at Republic Services

- Our newest recycling center was constructed of 75 percent recycled steel and used 1,776 solar panels
- More than half of the materials in our new Customer Resource Center are from repurposed materials, and it uses LED and natural lighting throughout
- Low-flow water fixtures and xeriscaping in our newest facility in the southwest reduces water consumption by 20 percent
- Republic Services has operations in 240 markets across the US
- Responsibly operate 340 collection operations across the country

- A yard for housing all the vehicles that serve the community, including fueling infrastructure, if possible
- Storage yard for spare carts and dumpsters and those used to serve the residential, commercial, and industrial customers in the community
- An industry-leading maintenance facility, which delivers service for the trucks, carts, and dumpsters
- Training facilities to keep our workforce at the forefront of learning and safety
- Administrative offices to interact with your municipal staff

Typically, our largest workforce presence exists at a hauling company to support the complex operation that goes into serving your community with a 99.9% pickup reliability rate.

Key Personnel

Our operations are run locally by seasoned industry veterans who live in your community and are backed by the experience and strength of their area and corporate leadership teams.

Republic Services is structured along functional lines, which allows for local decision-making by managers with direct responsibility and experience relevant to the contract operations. They are knowledgeable of local collection and post-collection processing activities. They are supported by the extensive resource recovery technical expertise and financial strength of our parent company, Republic Services, Inc.

Republic Services' in-house training, personnel advancement, recruitment programs, and workforce development are some of the most comprehensive in the industry. This enables Republic Services to attract and retain the most highly qualified, dedicated, and experienced professionals in the business today.

Local Leadership

Our local personnel are vital to the successful delivery of this contract and its daily operations. We will manage the various operational and administrative components of contract implementation and ongoing service to North Lauderdale. This team's unique combination of collection experience, recycling expertise, and innovative management systems will ensure quality service for the duration of the contract.

Our local and area management teams have extensive industry experience operating and managing solid waste companies and have substantial experience in the region. This allows us to quickly respond and meet your needs; all-the-while staying in touch with your local businesses and residents. We believe our strong area management team will enable us to effectively and efficiently drive our initiatives and helps ensure consistency across the organization. These teams have extensive authority, responsibility, and autonomy for operations within their geographic markets. Because of retaining experienced managers with extensive knowledge of their local communities, we are proactive in anticipating customers' needs and adjusting to changes in the markets. We also seek to implement the best practices of our various business units throughout our operations to continue improving our operations and service to our customers.

Local Business Unit has over 90 years of combined industry experience

- We provide jobs to more than 36,000 people nationwide, including 157 who live and work in Broward County
- The local General Manager and his business unit are fully empowered to serve your needs
- Every business unit is supported by area and corporate staff

National Backing

Each of our local business operations is fully empowered and accountable for delivering on our commitments to our customers. They are also backed by the support and breadth of our area and corporate leadership teams, capable of massing expertise and corporate might to assist or respond to any challenge during the term of the contract. An example of this benefit to you is the response capabilities during times of crisis such as

*Figure 14. **Empowered Leadership**. The local business unit is fully empowered, with the full support of the area and corporate staff.*



hurricanes, tornados, or other disasters. In times of challenges like this, our area and corporate teams activate to ensure people are safe and our assets are operational to return to normal operations as soon as possible.

Key Personnel

Your local team has been working together for years, serving four municipalities in your area. The key positions and roles involved in the delivery of this contract are listed below:



Jamey Amick
Area President
jamick@republicservcies.com
Jamey Amick has over 30 years of experience in the solid waste industry and oversees the strategic and operational direction for the Southeast Area. Mr. Amick has been with Republic Services for 25 years. He is responsible for managing 4100 employees in the 92 solid waste divisions, including 24 landfills, 22 transfer stations, and six materials recovery facilities (recycling centers). His area market generates 1.25 Billion in annual revenue with a focus on integrated strategic growth.



Jean Pierre Turgot
General Manager
jturgot@republicservices.com
(954) 279-9293
751 NW 31st Ave, Lauderhill, FL

Jean Pierre has six years of waste industry experience and extensive general management experience with 20 years in the hospitality industry. As a general manager at Republic Services, Jean Pierre is responsible for the Fort Lauderdale Business Unit's overall operations servicing four municipalities and open market commercial businesses in Broward County. He serves on several boards, including the Museum of Science and Discovery, the Haitian American Chamber of Commerce president, and is active in the community.



Joanne Stanley
Municipal Services Manager
jstanley@republicservices.com
(561) 719-8638
751 NW 31st Ave, Lauderhill, Fl

Joanne brings 25 years of waste industry experience to her current position. She has been a Republic Services employee for 14 years. She has held various sales and municipal positions in the industry, including Major Account Manager, Sales Manager, Area Sales Manager, National Sales Manager, and now Municipal Services Manager for the Palm Beach and Broward County Business Units. Joanne is responsible for procuring and maintaining Municipal Contracts in Palm Beach County, Broward County, Brevard County, Indian River County, St Lucie County, Okeechobee County, and Glades County. Additional responsibilities include marketing, public education, project development, and governmental relations and negotiations. Joanne is very active in the community, serving on Boards and volunteering for many organizations.



Muriel Attilus
Operations Manager,
mattilus@republicservices.com
954-279-7527
731 NW 31st Ave, Lauderhill, FL

Muriel has been a Republic employee for seven years and has held Customer Service Supervisor, Operations Supervisor, and now the Operation Manager in Fort Lauderdale. With her background in Collections (Hauling), Muriel manages the Fort Lauderdale division's daily operations. She

interacts with customers and government employees daily to ensure maximum productivity and customer satisfaction for residential, commercial, and industrial/construction services while adhering to regulatory compliance standards. Muriel leads a large team of professional operations employees to provide service to our municipalities and open market customers.



Mike Rizopoulos
Business Unit Controller
mrizopoulos@republicserrvices.com
(954) 327-9580
751 NW 31st Ave, Lauderhill, FL

Mike has 17 years in the solid waste industry with Republic Services and has worked in various divisions nationwide. He has held multiple positions in accounting and finance. Mike is currently responsible for all administrative, accounting, and statistical reporting functions for four municipalities at the Fort Lauderdale business unit. He ensures that financial controls and records are maintained per company policy and legal requirements. He is responsible for providing and reviewing with the General Manager and staff financial statements and variance analyses, billing, account reconciliation, and analytical support and assistance for the division goals and action plans.



Tim Martin
Maintenance Manager
tmartin@republicservices.com
(561) 578-8323
751 NW 31st Ave, Lauderhill, FL

Time has been in the waste industry for 11 years, including seven years with Republic Services. He has extensive experience in heavy Equipment vehicle maintenance of medium and large fleets. He is responsible for overseeing all aspects of the fleet vehicles using his expertise and extensive knowledge in inspections, diagnosis, and repair of electrical, hydraulic, suspension, drive train, engine, brake, and air systems on all waste industry vehicles, including CNG fuel systems repairs. Tim leads a team of 15 professional technicians to ensure DOT compliance and One Fleet reliability. He is also responsible for maintaining, facility owned by Republic Services in Broward County.



Tracy Aubin
Human Resources Manager
taubin@republicservices.com
(954) 599-6446
751 NW 31st Ave, Lauderhill, FL

Tracy has been employed with Republic for 25 years, working in various positions throughout her career, including Corporate HR Representative, Sr. Corporate HR Manager, Area HR Manager, and now Business Unit HR Manager. Tracy works closely with business leaders and line managers to achieve shared organizational objectives, mainly designing and implementing HR processes that support strategic business goals. Tracy is also responsible for upholding Republic's policy to ensure that all applicants and employees are provided an equal opportunity; in addition to ensuring proper staffing levels are maintained, employees are afforded job-related training and career advancement, as well as coordinating employee recognition and appreciation events to maintain a high employee retention rate and culture where the Best People Want to Work.

Key Personnel Resumes

Name: James G Amick Jr	**Area/Business Unit:** Southeast Area
Present Title: Area President, Southeast Area	**Date of Hire: 01/12/1998**
Manager: Bryan Boyer	

BIO SUMMARY *(this should include current position & responsibilities, and education or special skills)*

Professional Background

A highly-driven Operations Executive with over 30 years experience in the solid waste industry, who has demonstrated the ability to lead diverse teams of professionals to new levels of success in a highly competitive and fast-paced environment. Strong marketing strategist with proven ability to grow markets organically to increase market share. A true leader with a long, successful track record to drive results by analyzing an organization's critical business needs & to ensure innovative, cost-effective solutions.

Work Experience

Area President - Southeast Area

Accountable for developing market strategy for the Southeast Area. Sets the strategic direction that anticipates and addresses the needs of our customers. Build and lead the team that will deliver strategy and operational service level excellence, while managing profit forecasting and achieving financial targets. Provides executive leadership to the operations, program management, and delivery support teams who define and implement best practices for managed services. Leads a team of 9 Direct Reports.

- Provide general management responsibilities: P&L accountability, portfolio management, forecasting and operations governance.
- Directs employee development strategy that will ensure service delivery to the markets we serve.
- Provides leadership & support to the General Manager/Area Staff to ensure overall customer satisfaction remains high
- Market Development

REPUBLIC SERVICES 1998 to Present

Education

Bachelor of Science, Business Administration and Marketing, University of South Carolina - Upstate 1985 – 1990

LAST FIVE YEARS AT COMPANY

Job Title	Year(s)	Responsibilities and Indicators of Scope/Size
Area President, Southeast Area	2016 - Present	Senior executive responsible for total Area P&L with $1.4B annual revenues, 20 Business Units, 90 Operating Divisions, 4200 Employees
Area President, Carolinas	2012 - 2016	Senior executive responsible for total Area P&L with $425M annual revenues, 9 Business Units, 41 Operating Divisions, 1215 Employees

OTHER POSITIONS HELD AT OTHER COMPANIES

Job Title	Year(s)	Company (RSG/AW or other)
Area President – SC/Charlotte	2008 - 2012	Republic Services
Area President – SC/Coastal GA /N FL	2000 – 2008	Republic Services
General Manager – Savannah GA	1998 – 2000	Republic Services



Jean-Pierre Turgot, General Manager
Republic Services of Florida, Limited Partnership
e jturgot@republicservices.com
o 954-327-9555 c 954-279-9293

Summary of Qualifications

Jean-Pierre serves as the General Manager of the Fort Lauderdale Business Unit. He comes to Republic with a wealth of management skills: Multi-unit operations, P & L Management, Risk Management, Customer relations and Satisfaction, Sales and Municipal Marketing, Human Resource Management.

Experience

Republic Services

2014 – Present **General Manager** Fort Lauderdale, FL

Responsible for the Fort Lauderdale Business Unit's daily operations, including annual revenues exceeding $45 million from residential, commercial, and industrial waste and recycling collections throughout Broward County, in addition to oversight of the Envirocycle Recycling Center.

Delaware North Companies

2011-2014 **General Manager** Fort Lauderdale, FL
1989-2007 **Director, Food and Beverage** Cape Canaveral, FL
Kennedy Space Center Visitor Complex

Managed food and support services staff, consisting of 44 Managers and 900+ hourly associates within 52 outlets, at Broward County/Fort Lauderdale Airport, responsible for generating over 62 million annually. Played a key role in negotiation with Broward County Commission to extend the Airport Concessionaire contract.

ARAMARK Corporation

2007-2011 **General Manager** New Orleans, LA

He oversaw all operational and financial aspects of food and beverage for 3.2 million square feet of Convention Center space consisting of 140 meeting rooms, 4,000 seats State-of-the-Art auditorium seating 4,000 and 1.1 million square feet of exhibit space with two luxurious ballrooms 400 seat restaurant and 18 concession areas.

Education

- Rockland Community College, Spring Valley, NY
- Hotel & Restaurant Management, New York Institute of Technology, Long Island
- IT Operation Certification, Louisiana State University Shreveport, Shreveport, LA (1990)
- Jesuit College St Martial High School, Port-au-Prince, Haiti (1985)
- LEEDS Silver Commissary Team

Municipal Contracts

Coconut Creek; Weston; Sunrise; Lauderhill; Pembroke Park; and Fort Lauderdale

Joanne Stanley-Manager, Municipal Services
Republic Services of Florida, Limited Partnership
e jstanley@republicservices.com
o 954-626-2160 c 561-719-8638
f 954-584-1453



Summary of Qualifications

Joanne has over 25 years of experience in the recycling and solid waste industry, including business development, budgeting, special events coordination, public relations, marketing, and community outreach. She is responsible for procuring and maintaining all municipal and governmental contracts for Republic Services throughout South Florida and the Treasure Coast. Additional responsibilities include public education, project development, governmental relations and negotiations, marketing.

Experience

2010–Present **Republic Services Inc.-Manager, Municipal Sales**
Responsible for procuring and maintaining Municipal and Governmental Contracts in Palm Beach, County, Brevard County, Indian River County, St Lucie County, Okeechobee County, and Glades County. Additional responsibilities include marketing, public education, project development, and governmental relations and negotiations.

2008–2010 **Republic Services, Inc. -Area Sales Manager**
Responsibility for revenues exceeding $230 million annually from commercial, industrial, residential, and recycling lines of businesses throughout South Florida and Puerto Rico.

2006-2008 **Republic Services of Palm Beach –Sales/ Marketing Manager**
Manage a sales and customer service team. Responsible for sales revenues and budgets for new growth through municipal, commercial and industrial collections services.

2005-2006 **National Environmental Waste Services, Inc.- National Sales Manager**
Responsibilities were new sales growth and maintaining national accounts.

2003-2005 **Casella Waste Systems, Inc. - Sales Manager**
Managed six sales representatives and was responsible for growth and retention of $2.5 million in revenues.

2002-2003 **Waste Management, Inc. -Major Account Manager**
Maintain all major accounts over $2,000 per month in the Boston market.

1993-2002 **Browning Ferris Industries (Allied Waste) -Municipal Marketing Manager/ Major Account Manager**

Managed all government relations and municipal sales-related activities within the District to improve and maintain relationships, organization, consistency, and comprehensiveness of related policies, programs, and systems.

Education

1983 Florida State University
BA German

Municipal Contracts: Palm Beach County, Royal Palm Beach, Palm Springs, Ocean Ridge, Pembroke Pines, Lantana, Coconut Creek, Sunrise, Fort Lauderdale, Weston, Indian River Shores, Indian River County Lawrence, MA, Billerica MA, Bedford, MA, Lexington MA, Hudson NH, Danbury NH, and Lowell MA.

Michael "Mike" Rizopoulos-Division Controller
Republic Services of Florida, Limited Partnership
e mrizopoulos@republicservices.com
o 954-327-9580 c 630-878-5943



Objective

Mike has18 years within the solid waste industry and is currently responsible for all administrative, accounting, and statistical reporting functions for Republic Services. He ensures that financial controls and records are maintained per company policy and legal requirements.

Additionally, responsible for providing and reviewing with the General Manager and staff financial statements and variance analyses, billing, account reconciliation, and provide analytical support and assistance for the division goals and action plans.

Develops and coordinates the annual budget and contract rates for municipality bids. Manages and trains staff in the accounting department.

Years of Experience

Republic Services 2012- Present	Division Controller	Fort Lauderdale, FL
Allied Waste Services 2004-2012	Division Controller	Melrose Park. IL
Waste Management 2002-2004	Senior Accountant	Oakbrook, IL

Education

- Bachelor of Science-Accounting, Long Island University (1979)
- C.W. Post College, Greenvale, NY

Municipal Contract Oversight

Coconut Creek; Weston; Sunrise; Lauderhill; Pembroke Park; Fort Lauderdale; Melrose Park, IL; Hinsdale, IL; Downs Grove, IL; Oakbrook, IL



Muriel Attilus-Operations Manager
Republic Services of Florida, Limited Partnership
e mattilus@republicservices.com
o 954.797.3178 c 954.279.7527

Summary of Qualifications

Muriel has four years of industry experience in operations and three years in customer service. She manages the daily operations for a hauling division and ensures maximum productivity and route management systems for commercial, roll-off, and residential routes, and establishes productivity improvement goals where needed. Responsible for the adherence to operating standards, the development of supervisory goals & objectives, and the management of labor hours and disposal expenses. Directly manages the budget for the operations department, which includes approval of purchase orders and vendor pricing. Interacts with customers and local, state, and federal government employees to resolve customer service concerns and ensure regulatory compliance standards are met.

Years of Experience

Republic Services

2020-Present **Operations Manager** Fort Lauderdale, FL
Responsible for all day-to-day operations in the business unit.

2016-2020 **Operations Supervisor** Fort Lauderdale, FL
Managed hiring, staffing, and day-to-day operations of the Residential and commercial line of business, while establishing productivity and staffing plans.

Republic Services

2013-2016 **Customer Service Supervisor** Fort Lauderdale, FL

Devon Security

2009-2011 **Customer Service Manager** Hollywood, FL

Education 1994

- Edison Senior High School, Miami, FL - 1998

Municipal Contract Oversight

Weston; Lauderhill; Fort Lauderdale; Sunrise; Coconut Creek, Pembroke Pines, and Pembroke Park

Open Market Oversight

Open Market Commercial and Industrial in Fort Lauderdale and Hollywood



Timothy A. Martin-Maintenance Manager
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Summary of Qualifications

Timothy has over 36 years in heavy equipment vehicle maintenance and has been responsible for the scheduled and unscheduled preventive maintenance of medium and large volume fleets. Plans organize, direct, and manage the division's maintenance function to maintain a safe, reliable, and cost-effective fleet of vehicles and equipment and an adequate supply of containers. He is responsible for maintaining full compliance with all safety, DOT, and preventive maintenance processes. Timothy manages a team of 15 technicians, the truck and container shop for Republic services.

Years of Experience

Republic Services

2012-2016	Maintenance Manager	Fort Lauderdale, FL
2005 – 2012	Waste Management	
2009 – 2012	Buckeye Valley Waste	

Education

- United States Marine Corps (1997-2012)
- Grandville High School, Grandville, OH (1978)

Continued Education

Allison Transmission III Generation IV; MP& Engine; Mack-E-Tech Motors; Diagnosis of Telma Braking System; Compass M4-M5; Friction Basics; Diesel Engine Maintenance Instructor Training

Municipal Contract Oversight

Coconut Creek, Weston; Sunrise; Lauderhill; Pembroke Park, and Fort Lauderdale.

POSITION TITLE: TBD- Operations Supervisor – Hauling Operations

PRINCIPAL RESPONSIBILITIES:

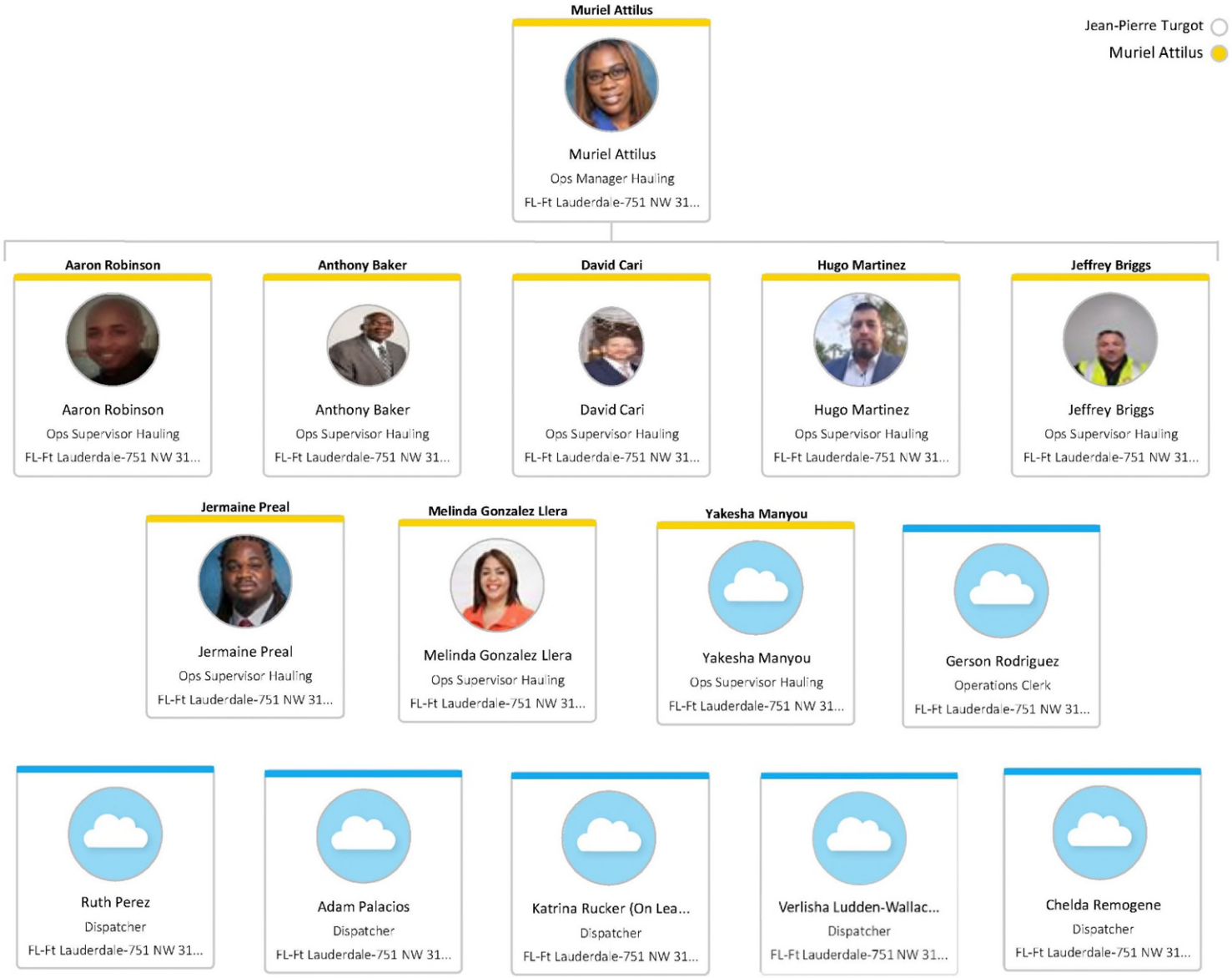
Safety

- Understand and provide leadership to achieve and communicate safety goals and objectives.
- Work to remove unsafe conditions or situations from drivers' routes.
- Work with the sales team to identify and eliminate unsafe conditions on new routes or new customers.
- Partner with the maintenance department to ensure all equipment remains in working order and compliance with safety standards.
- Oversee adequate safety and accident prevention programs to ensure all reasonable actions are taken to prevent accidents and injuries; ensure a safe and productive work environment for all employees; implement and maintain an effective loss control and safety program.
- Engage assigned employees in active participation to instill a culture of safety by demonstrating a personal commitment to safe operations and active personal outreach to operational employees

Customer Experience

- Provide service to all customers that meet or exceed customer expectations regarding the entire customer experience.
- Understand missed pickup goals and meet or exceed expectations related to those goals.
- Resolve unusual service requests, equipment breakdowns, and schedule changes with timely communications to all stakeholders.
- Interact with customers to solve and rectify any issues and improve the overall customer experience.
- Serve as a positive representative of the company to drive customer satisfaction and loyalty to the company.

Operational Org Chart



Subcontract

As an industry leader, Republic Services is committed to partnering with small, disadvantaged, minority-owned, woman-owned, and veteran-owned business enterprises. These relationships help grow successful businesses in the municipalities we serve and live in.

Our experience and interaction with state and local governments will allow Republic Services to work with our municipal partners in Broward County and adhere to government procurement law. We can also assist qualified contractors with earning and retaining SBE certification.

Subcontracting Opportunities

Republic Services employs subcontractors wherever possible to promote local jobs and economic development. Typically, our subcontractors have specialized skills and knowledge, which allows Republic Services to focus on our core functions.

Opportunities for subcontracting vary based on location and often include:

- Bulk and Yard Waste Collection Services

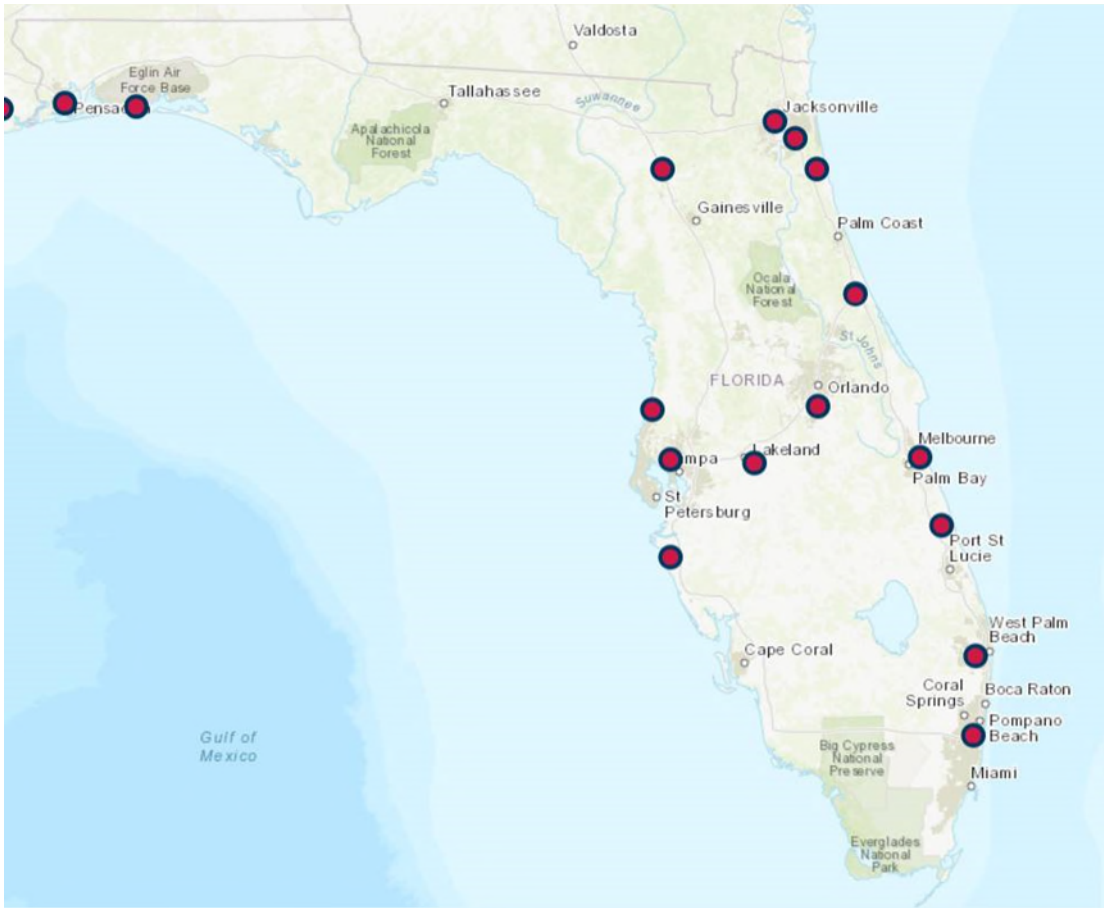
The Subcontractor will report to the Operations Manage.

a. Republic Services is proposing to use Eastern Waste Systems, Inc. (EWS) as subcontractor performing residential bulk collection services. EWS is locally headquartered at 1660 NW 19th Ave. Pompano Beach, FL 33069, less than 3 miles from the City of Margate. b. The local contact for EWS is Michael Marzano, and the telephone number for EWS is (954) 543-9800. c. EWS will be assigned the residential bulk collection and any multi-family units receiving residential waste collection services under the terms and conditions of the Franchise Agreement. d. EWS will be responsible for all residential bulk collection and any supplemental collections as directed by Republic Services. 20%

Florida Based Locations

Republic Services of Florida, Limited Partnership consists of :

- 14 Hauling Facilities
- 4 Material Recovery Facilities
- 3 Landfills
- 1,457 Employees
- 794 Front Line vehicles



V. Operational Plan

Great operations come from great people. Republic Services' locally based operations team draws from extensive training and the backing of a seasoned corporate support team. The result is a 99.9% on-time service record, emphasizing safety, sustainable practices, and low-risk operations.

Operations Overview

Successful collection operations begin with a skillful operations supervisor who knows the business as well as your community. Your Republic Services local operations supervisor is responsible for the day-to-day collection operations, including development and evaluation of routing (in conjunction with the general manager), training and oversight of drivers, and implementation and enforcement of safety procedures.

We ensure our operations supervisors are not overloaded nor tied to a desk. On average, we maintain a 15:1 ratio of routes to supervisors, which means that items needing attention are dealt with immediately and that the supervisor knows your community intimately. In addition, our supervisors are out on the routes regularly. At least twice per week, they conduct ride-along with drivers on their routes. This creates great opportunities for driver mentoring, ensures quality control on the route, and keeps the supervisor directly aware and familiar with the nuances of the route and the community. If any other companies in the industry dedicate their operations staff to success in this manner, few, if any other companies in the industry.

*Figure 15. **Operational Excellence**. Our rigorous supervisor training program yields highly skilled operations teams.*



Republic Services' operations team is market-leading through training, collaboration, and hands-on experience

- The most robust operations supervisor training in the industry
- Average of 15:1 route to dedicated supervisors' ratio – means prompt response and oversight for your community
- Proven optimized routing process ensures efficiency, safety, and minimal impact on city streets
- Republic Services executes 4.9M pickups per day

Operations Training

Our operations supervisor training programs are second to none. Every supervisor, upon starting employment at Republic Services, attends a rigorous 2-week boot camp training course. Regardless of prior industry experience, this boot camp level sets all our supervisors on The Republic Services Way of running operations and builds a strong peer network with those who attend the training together. After the initial training boot camp, supervisors engage in regular refresher and new training opportunities, between 2 and 4 times per year. This yields an operations supervisory team that shares best practices and constantly looks for ways to improve your community's level of service.

Routing Optimization

Establishing the most optimized routes for a community has dramatic effects on the quality of service, safety, and efficiency of the collection operation through shorter routes, safety in the neighborhoods, and

ultimately the wear and tear on the streets within the municipality.

We conduct a proven route optimization process, which involves a tight collaboration between the local team and our corporate route optimization team. Through several iterations, these teams collaborate, sharing local knowledge and details while running our optimization processes to yield the best routes possible for your community. An example of this process is that we evaluate planned routes to ensure that trucks are not conducting collection on streets during times known for congestion or traffic.

Communication with the Community

Besides the regular collaboration between the routing teams, our operations team can easily communicate with the residents and commercial customers using several forms of technology. Our Republic Services web- and smartphone-based app enables customers to see their accounts, make service requests, or raise issues for resolution. This app also enables our operations team to offer alerts or emails to customers regarding changes in service for holidays or inclement weather. We also employ a technology known as Call-Em-All, which is a phone-based capability for distributing operations updates when needed to customers on affected routes.

Economy of Scale

Another benefit of Republic Services as your partner is our economy of scale. As an industry leader with a national operation, we obtain trucks and equipment at a better price due to discounting, which allows us to refresh our assets more frequently than smaller companies. This applies to many of our vendors, including our uniforms, so our drivers and operations teams are better representatives of your city when out in the community.

Digital Operations

We are also leveraging technology to digitally connect our customers, drivers, dispatchers, supervisors, and trucks via our "RISE" dispatch platform and in-cab technology. We utilize an agile, iterative approach to this technology's development and multi-year roll-out to ensure durable adoption and an appropriate return on our investment. With the roll-out of this technology, we will improve productivity through more real-time routing information and data visualization tools, increase customer connectivity, enable automated service verification communications, and enhance the employee experience by providing better tools and technology designed around how our employees will interact with it.

*Figure 16. **RISE Platform**. Our new platform is in the process of rolling out over the next few years and will yield an even safer, more efficient collection for your municipality.*



Collection – Residential

Republic Services knows how important safe and dependable curbside pickup is to you when it comes to handling your waste needs. We work to exceed your expectations with quality carts and dumpsters and outstanding customer service.

Residential MSW Collection

We intend to service single-family carts using four automated side loader (ASL) trucks and one rear-load truck for those backdowns and hard-to-service solid waste and recycling areas.

The ASL is proven to retrieve and return carts in even the most hard-to-reach locations such as narrow streets, courts, and alleyways, enabling the industry's most efficient, safe, and environmentally responsible curbside automated collection services.

Each collection vehicle is operated by a single driver and will be painted in a uniform manner, featuring our logo and company contact information.

The largest provider of municipal residential collection services in the US

- Over 12 million homes collected every week nationwide
- 99.9% on-time pickup
- 4.9M pickups each day
- Comprehensive collection services, including solid waste, recycling, yard waste, and bulk

*Figure 17. **Residential Collection process**. Our residential collection service is simple, reliable, and environmentally responsible.*



Residents will be offered the option of choosing a 65- or 95-gallon cart. If a customer needs more than one collection cart, we will provide an additional cart for a fee to accommodate the customer's needs.

The ASL cart collection methodology is fast and efficient. It requires approximately 8 to 12 seconds to complete the cycle (pick up the cart, deposit contents, place cart back onto the curbside) before the driver moves to the next stop.

We propose to have five drivers and one helper to service the residential solid waste and recycling.

Residential Recycle Collection

We will offer all single-family customers weekly, fully automated single-stream recycling collection services. Recycling carts will be serviced with the same equipment and manner as residential solid waste carts.

All single-family customers who will need a replacement cart will be delivered within the requirements of the RFP.

Residential Yard Waste and Bulk Collection

We will offer all residential customers a weekly, automated collection of accepted yard waste materials. Yard waste will be service with clam shell type equipment, and

*Figure 18. **Automated Side Load Collection.** Provides a cleaner, safer, more efficient residential collection.*



Republic Services intends to subcontract these services to EWS.

Service Days

The following table reflects the service schedules for residential MSW, recycle, yard waste, and bulk items collection.

*Figure 19 **Service Days**. Below are the service days for your contract.*

Service	Days of Week	Collection Hours
MSW	Mon-Sat	7:00 AM-7:00 PM
Recyclables	Mon-Sat	7:00 AM-7:00 PM
Bulk and Yard Waste	Mon-Sat	7:00 AM – 7:00 PM

Holiday Schedules

Republic Services will be closed on Christmas; if your service day falls on one of these days, we will service you on your next scheduled service day.

Collections – Commercial

Republic Services provides effortless recycling and waste solutions for our commercial customers, working with them to evaluate and optimize their solutions.

Commercial Solid Waste

From monthly to daily collections and dumpster sizes ranging from 2- to 8-yards in size, Republic Services offers solid waste, recycling, with a variety of dumpster sizes and service frequencies to meet every business' needs.

Our commitment to you is simple; we will:

- Complete every collection as scheduled
- Return the cart to its dedicated location
- Clean loose litter or debris
- Ensure that enclosures are properly secured

Commercial Recycling

Republic Services offers single-stream recycling, in which the customer deposits recommended empty, clean, and dry recyclable materials in the one recycling cart. Republic Services then collects and transports the materials to the Recycling Centers for separation and processing.

Republic Services also offers source-separated recycling for cardboard and other commodities that can be taken directly to a local processing facility.

Flexible, Tailored Solutions

Our dedicated team is available to consult with businesses and communities of any size to conduct a comprehensive on-site waste assessment (Figure 37) to determine the needed services, collection frequencies, and dumpster sizes. We will identify dumpster locations and access paths that allow for safe, convenient service during the assessment.

Right-sizing service levels can increase waste diversion, improve collection productivity, and lead to reduced costs for customers.

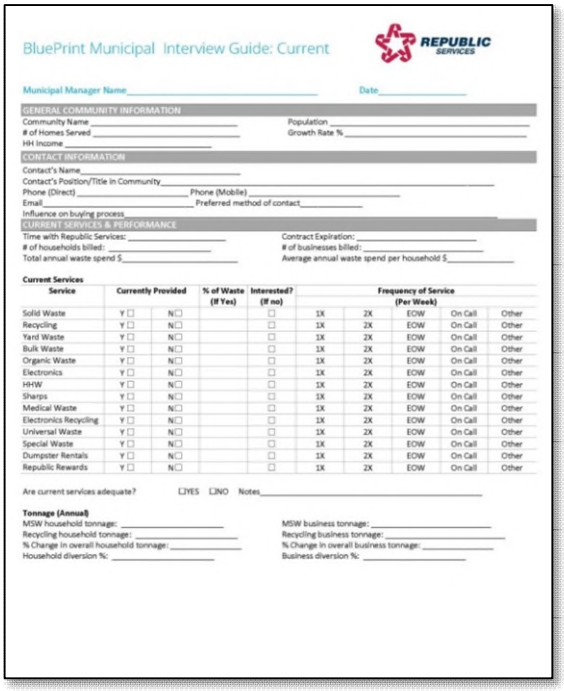
Commercial customers enjoy options and tailored solutions, regardless of company size

- In-person waste audits for commercial customers confirm the right level of service
- Wide range of services, including waste, recycling, and innovative sustainable solutions
- Range of dumpster sizes, from 2 to 8 yards, with an average lifespan of over 10 years

Dumpsters

Republic Services uses small dumpsters constructed of durable steel bodies and two plastic lids. Dumpsters range in size from 2 to 8 yards, and can be placed on casters for easy maneuverability, if necessary.

*Figure 20. **Waste Assessments**. An onsite waste assessment ensures that all your questions are answered.*



BluePrint Municipal Interview Guide: Current

REPUBLIC SERVICES

Municipal Manager Name_____ Date_____

GENERAL COMMUNITY INFORMATION

Community Name_____ Population _____

# of Homes Served _____ Growth Rate % _____

HH Income _____

CONTACT INFORMATION

Contact's Name_____

Contact's Position/Title in Community_____

Phone (Direct) _____ Phone (Mobile) _____

Email_____ Preferred method of contact_____

Influence on buying process_____

CURRENT SERVICES & PERFORMANCE

Time with Republic Services: _____ Contract Expiration: _____

# of households billed: _____ # of businesses billed: _____

Total annual waste spend $_____ Average annual waste spend per household $_____

Current Services

Service	Currently Provided		% of Waste (If Yes)	Interested? (If no)	Frequency of Service (Per Week)				
Solid Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Recycling	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Yard Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Bulk Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Organic Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Electronics	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
HHW	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Sharps	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Medical Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Electronics Recycling	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Universal Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Special Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Dumpster Rentals	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Republic Rewards	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other

Are current services adequate? ☐YES ☐NO Notes_____

Tonnage (Annual)

MSW household tonnage: _____ MSW business tonnage: _____

Recycling household tonnage: _____ Recycling business tonnage: _____

% Change in overall household tonnage: _____ % Change in overall business tonnage: _____

Household diversion %: _____ Business diversion %: _____

Constructed of a strong plastic resin, dumpsters are helpful for small offices and businesses. Dumpsters are designed to last up to ten years, with easily interchangeable wheels and lids.

Methodology and Procedures

Republic Services uses front-load collection vehicles to service commercial dumpster customers in North Lauderdale. Customers with a 95-gallon or smaller cart are serviced with an automatic side-load (ASL) or rear load (REL) truck.

Front-Load Vehicles

We service commercial customers with front-load collection vehicles with [28]-cubic yard volume bodies because:

- The supplier is a company that has proven to be among the strongest, safest, and lowest maintenance trucks in the industry
- Our first-hand local knowledge shows that this truck's size and attributes will "fit" every neighborhood we service, including hard-to-service accounts

Republic will prose one frontload truck six days a week to service North Lauderdale's commercial and multi-family locations.

Automated Side Load Vehicles

Our automated side load vehicles (ASL) are typically dual-side-drive, with a low-entry cab, and equipped with a remote rear camera that:

- Allows easy ingress and egress to the curb
- Improves driver and pedestrian safety
- Reduces potential injury
- Increases productivity

ASL's can compact waste at idle speeds or even while on the move, and the large 5-cubic yard hopper greatly reduces litter.

Our ASL vehicles feature an arm with a patented vertical lift design that goes from ground-to-ground operation in 6.5 seconds, allowing for maximum curbside pickup in less time while also preventing litter and spillage.

Holidays & Schedule Disruptions

Republic Services will take all necessary steps to notify customers prior to all holidays and unforeseen schedule disruptions via our Republic Services app and the Call-Em-All automated calling system.

*Figure 21. **Dumpster Placement**. The correct placement allows for safer and consistent service.*



Collections – Industrial Roll-Off

Republic Services' versatility ensures that every roll-off customer receives the service they need every time, whether it's an on-call open top at a construction site or compactors at a hospital with strict service constraints.

Roll-Off and Compactor Collection Overview

Republic Services offers roll-off collection, hauling, and disposal services to more than 70,000 customers in the United States, often for the principal employers in an area, such as:

- Construction industry
- Manufacturers
- Public institutions
- Hospitals

Roll-off service is unique because every day requires a different route for each of our trucks. Republic will have one roll-off truck available to service commercial and some multi-family units. The truck requires only one driver.

Republic Services' roll-off services are essential for a strong and growing economy

- High capacity roll-offs ranging from 10 to 40 yards
- Complete inventory of roll-offs and backup equipment
- We have the resources to grow our fleet and equipment to meet industry needs

We ensure that all routes are optimized daily for efficiency and service with continual investment in the best employees, best practices, the best equipment, and the best technologies.

We provide a large inventory of open-top roll-offs, ranging in sizes from 10 to 40 cubic yards with scheduling options from on-call to multiple times daily, to meet the needs of every customer throughout the year. Republic Services can scale up services during peak times to accommodate large temporary projects or seasonal industries like construction.

*Figure 22. **Industrial Collection Process**. Our service is efficient, reliable, and comprehensive.*



Industrial Waste

Republic Services operates in Broward County and will deliver the industrial waste to permitted and the city designated facility.

Industrial Recycling

Republic Services excels at helping customers meet their sustainability needs by identifying disposal locations that can recycle their materials and sharing best management practices for on-site commodity separation. Implementation of a successful separation program will both increase commodity values and decrease landfill-bound volumes.

Special Waste

Republic Services' roll-off fleet is used to meet the special waste needs of our customers. We work with each customer to accurately characterize and profile disposal needs prior to collection and then collect and dispose of the waste in a manner that meets all regulatory requirements.

Methodology and Procedures

The collection is completed with roll-off trucks on the open-top roll-offs or compactors coupled with a highly trained, professional driver.

Servicing the roll-off starts by backing the truck up to the roll-off, hooking a cable from the truck, and then using a hydraulic mechanism called a "hoist" to pull the roll-off onto the truck. All Republic Services roll-off trucks are equipped with an automatic tarp placed over the dumpster to prevent spillage during transport. Once the driver loads the dumpster onto the truck, it is hauled to the disposal facility, dumped, and returned to the customer.

*Figure 23. **Industrial collection**. Drivers can typically collect 6-12 roll-offs per day.*



Service times vary daily and depend on distance from the last stop and the distance to the disposal site. In some cases, the driver will arrive at the customer's location with an empty dumpster and swap it for the full one.

Our hours of operation are 3 a.m. to 5 p.m. Monday - Saturday. On a typical day, the driver services 6 to 12 roll-off dumpsters. The maximum weight per load cannot exceed 10 tons on most U.S. highways.

Account Accessibility

Customers can easily access their accounts 24/7 with the Republic Services app or website. Customers can schedule a pickup, pay invoices, and even sign up for new services while on the go.

Holidays & Schedule Disruptions

Republic Services will take all necessary steps to notify customers prior to all holidays and unforeseen schedule disruptions via our Republic Services app and the Call-Em-All automated calling system.

Collection – Multi-Family

We provide an innovative combination of programs and services for multi-family customers.

Multi-Family MSW Collection

Republic Services can provide a combination of programs and services for multi-family customers, ranging from cart service like residential customers to containerized service like commercial customers. Once defined and properly sized, multi-family customers are integrated into residential or commercial routes to provide the efficiency and reliability desired.

In all cases, Republic Services will identify the correct equipment to service multi-family complexes based on individual location and unique characteristics. Republic Services can provide 2-, 4-, 6- or 8-yard capacity solid waste dumpsters or 20-, 30- or 40-yard capacity open-top roll-offs or industrial compactors if the complex requests containerized service.

MSW collection issues such as narrow streets, traffic blockages, and alleyways may require the use of a rear-load vehicle or alternative service options. In all cases, the servicing drivers are familiar with these areas. They are trained to ensure personal safety, property protection, and awareness of traffic stops distance to parked cars and other objects.

*Figure 24. **Multi-Family Cart and Dumpster Options**. Solutions for Multi-Family Complexes include carts and dumpsters, front-load, or roll-off.*



Personalized multi-family solutions to meet your needs

- Industry-leading service and customized waste solutions ensure Republic Services will exceed your community's expectations
- The latest single stream recycling technology paired with ongoing education makes certain your community is receiving best-in-class service
- There are approximately 35M multi-family units across the US, and growing

Multi-Family Recycle Collection

Republic Services will offer weekly single-stream recycling services as part of its core services for all multi-family customers. Cart options include 64- or 96-gallon capacity.

The same equipment and methodology used in single-family cart collection will be implemented when servicing multi-family recycling customers. Multi-family recycling front-load dumpster customers will be serviced using the same methodology as multi-family trash front-load dumpster customers and integrated into commercial routes.

Severe Weather Plan

When the State of Florida implements a State of Emergency for Florida, Republic Services will stop all collection services for the City of North Lauderdale. After the Storm, with the city's approval, Republic will assist the disaster debris contractor if needed to clean up the city. As soon as the roads are clear, Republic will resume collection services for MSW than Recycle.

Implementation Plan

We have successfully implemented new or emerging services into our 2,400 municipalities nationwide. Our team takes pride in our ability to implement new services without service impacts.

Our Approach

Your transition will take into consideration the unique needs of the contract and North Lauderdale. The key to success, regardless of project details, relies on communication plans to include:

- We start with a plan crafted in collaboration with North Lauderdale. This plan includes milestones, roles/responsibilities, and contact information, and a timeline for execution.
- Frequent, proactive communication with the North Lauderdale to ensure no surprises along the way.
- Weekly in-person meetings and phone calls/emails as the situation requires. Our philosophy is that sharing good news and bad news gives everyone a chance to prepare and respond in a timely and calm fashion.
- Data sharing and field coordination with a current contractor ensure all open requests are met, and service information is accurate.
- Monitoring of open service notes is critical, especially when the transition date nears. Republic Services will work with North Lauderdale to address any outstanding concerns before the implementation of new services. Our operations teams, customer service professionals, and data partners understand the need to keep a close eye on open service notes.
- Dumpster removal and delivery also require careful coordination with field crews. Customers need same-day service from both providers, and our local teams work with the current hauler to streamline this function.

Decades of experience partnering with municipalities to implement new programs in the community

- 92% track record of successful extension or retention of existing partner contracts
- Frequent and transparent dialogue with the municipality
- All details and plans reviewed
- National strength, with local experts

- Timely and appropriate communication with residents and businesses—from events and mailings to website information and direct communication (phone, email, live chat, etc.). Redundant communications through a variety of channels are paramount to success.
- Daily communication with the internal team to assess project status.
- Our operations management will meet with our supervisors and maintenance crews daily to ensure critical-path items are addressed.
- The education team meets with the transition lead (operations manager), customer service manager, and general manager to ensure customer-specific aspects of the rigorous training for customer service staff and drivers.

- Contract-specific information, route development, and truck test drives will be used to bring a safe and well-informed team to North Lauderdale.
- Regular communication with vendors supplying carts and dumpsters, printed material, trucks, and on-board computing systems.

Republic Services brings relationships and experience to North Lauderdale. We have extensive expertise in implementing collection programs. Republic Services has the national strength and the local experts to get the job done using our network of federal and local suppliers from purchasing to operations to communications.

If awarded the franchise agreement, Republic will provide a detailed transition/implementation plan for approval from the City.

*Figure 25. **Open Communications**. Republic Services communicates with residents and businesses regarding services changes.*



Implementation Sample Timeline

PROJECT NAME:	City of North Lauderdale	Status Key
REPORT DATE:	Sample	R Off track, progress in jeopardy
OVERALL PROJECT STATUS (G, Y, R, C):	G	Y Off track, mitigation strategy /action plan in place
PROJECT Goal	Transition Plan City of North Lauderdale	G On Track
		C Complete

Sample Transition Plan City of North Lauderdale

Action Plan Snapshot

Mile-stone #	Description	Target Start Date	Target Completion Date	Owner	Estimated/ Actual Date	% Complete	Status	Notes
1	Implementation Overview			Jean-Pierre Turgot				
1.1	Contract executed	6/1/2021	6/15/2021				G	
1.2	Transition kick off meeting with City staff and Republic Services	6/15/2021	6/15/2021				G	
1.3	Weekly meetings with City staff	On going	On going				G	
1.4	Detailed Implementation Plan due to City of Margate	8/15/2021	9/1/2021				G	
1.5	Contract start date	1/1/2022	1/1/2022				G	
2	Equipment and Procurement			Tim Martin				
2.1	Order new collection vehicles	6/15/2021	6/15/2021				G	
2.2	Identifiyed new diverted equipment for Margate	7/1/2021	7/15/2021				G	
2.3	Review vehicle specs with vendor	7/1/2021	7/15/2021				G	
2.4	RFP for rental equipment	6/20/2021	7/1/2021				G	
2.5	Receive and inspect new collection vehicles and rental trucks including: licensed, registered, insured and tagged	12/1/2021	12/10/2021				G	
2.6	Place rentals and new trucks into service	12/15/2021	12/31/2021				G	
2.7	Order carts for multiple container residents	8/1/2021	8/15/2021				G	
3	Collection Services			Muriel Attilus				
3.1	Complete residential route maps for city approval	9/15/2021	10/1/2021				G	
3.2	Conduct audits and route surveys (Commercial & Multi-family)	10/1/2021	10/30/2021				G	
3.3	Obtain gate codes	11/15/2021	12/1/2021				G	
4	Cart and Container Delivery			Muriel Attilus				
4.1	Coordinate schedule with existing contractor commercial containers(If applicable)	10/1/2021	10/30/2021				G	
5	Employees			Muriel Attilus				
5.1	Initial hiring steps	9/15/2021	9/30/2021				G	
5.2	Confirm all new hires	11/1/2021	11/15/2021				G	
5.4	Saety and onboarding training	12/1/2021	12/15/2021				G	
5.5	Behind the wheel instruction training	12/15/2021	12/31/2021				G	
5.6	Route familiarity	12/15/2021	12/31/2021				G	
6	Customer Resource Center			Joanne Stanley				
6.1	Initial meeting with CRC staff	10/0/2021	10/15/2021				G	
6.2	Provide Knowledge Management Tools (KMT)	9/15/2021	9/30/2021				G	
	Train CRC represnetatives on Margate specifics	12/1/2021	12/15/2021				G	
6.4	Customer Service Begins	1/1/2022	1/1/2022				G	
7	Customer Notification			Joanne Stanley				
7.1	Media release to introduce Republic Services and FAQ	12/1/2021	12/15/2021				G	
7.2	Contact Commercial and Industrial customers to confim size and frequency	11/1/2021	11/30/2021				G	
7.3	Draft informational brochure to the City	10/1/2021	10/30/2021				G	
7.6	Draft service days and set out procedures post card	11/15/2021	11/30/2021				G	

ccomplishments Since Last Report

FUpcoming Major Activities

Constraints & Risks

Mile-stone #	Description	Owner	Priority	Due Date	Status

Customer Service

We have redefined the Best Practices in Customer Service coverage and user experiences through our response to the 2020 pandemic.

Redefining Customer Service

Over the past 3 years, Republic Services has redefined the way we deliver superior customer service. Following a 2017 commitment to shift from hundreds of distributed, nonintegrated call centers to a national technology platform, the insights and experiences literally informed and shaped our thinking. Additionally, these investments and insights enabled us to lead the industry in our rapid response to the 2020 pandemic, when we shifted over 1800 agents to a work-from-home posture in three days and never dropped a call.

Knowing Our Customers

Creating the optimal customer service offering starts with studying and understanding our customers about how and when they want to contact us for help.

We provide an exceptional customer experience when your residents or businesses contact us for assistance

- Leverage technology and data to enable virtual agents to serve customers from any location seamlessly
- Over 1M customers expertly served each month via text, web, email, or phone
- Hours are when customers demand highest – Monday through Friday from 7:30 a.m. – 5:00p.m. for each time zone
- Web-based applications offering 24/7 access for customers on their own time
- Net Promoter Score has improved year-over-year for 5 consecutive years

Optimal Call Center Hours

During 12 months in 2019, we collected and tracked every call made to our staffed call centers across America. Over 12.7M calls were received during that timeframe when our call centers were open from M-F (7 am to 6 pm) and Saturday (8 am-1 pm).

*Figure 26. **Comprehensive Customer Service**. Our customer service offering spans self-service options to person-to-person contact to offer unmatched service, 24/7 daily.*

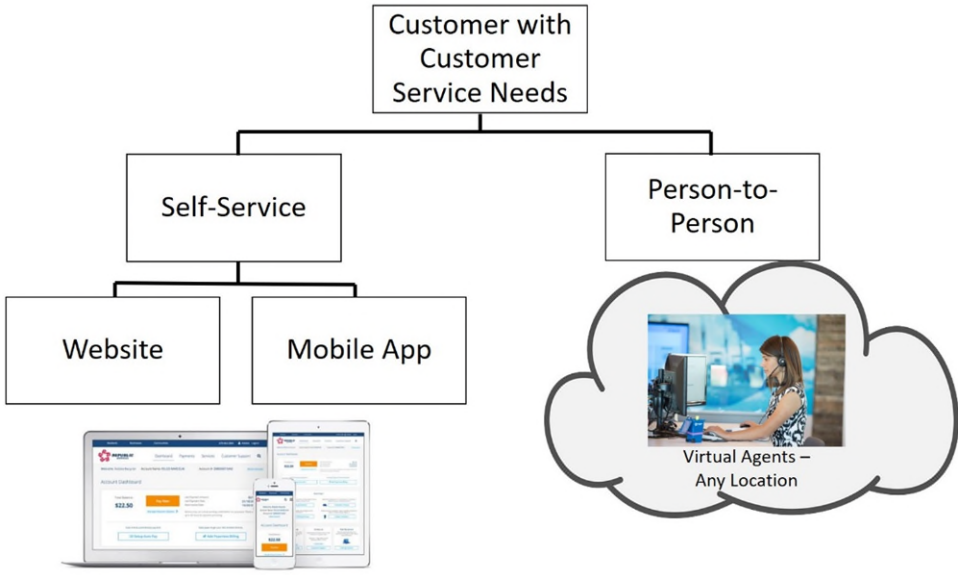
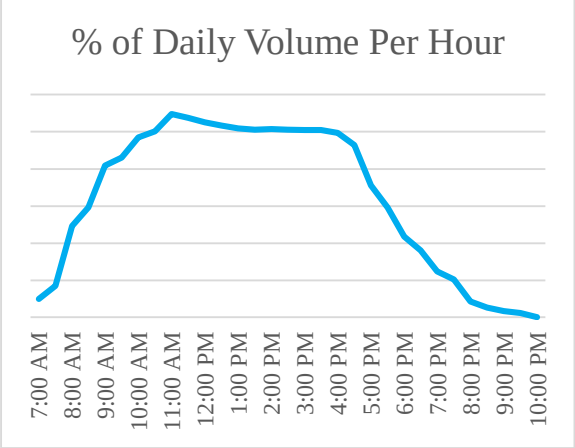


*Figure 27. **Optimal Call Center Hours**. Analysis of over 12M calls in 12 months shows 90%+ of all calls occur M-F between 7:30 am and 5:00 pm*



When analyzing the data, we learned that less than 1.5% of daily calls were received from 7 am to 8 am, and less than 1% of daily calls were received after 5 pm daily. We further learned that less than 2% of the weekly call volume occurred on Saturday. Through the data, the customers were telling us that they were busy during those times and that it was not necessary for the call centers to be running fully staffed for such a small percentage of the total call volume.

This insight lets us define the best practice for call center hours to be M-F from 7:30 am to 5:00 pm.

Customer Self-Service

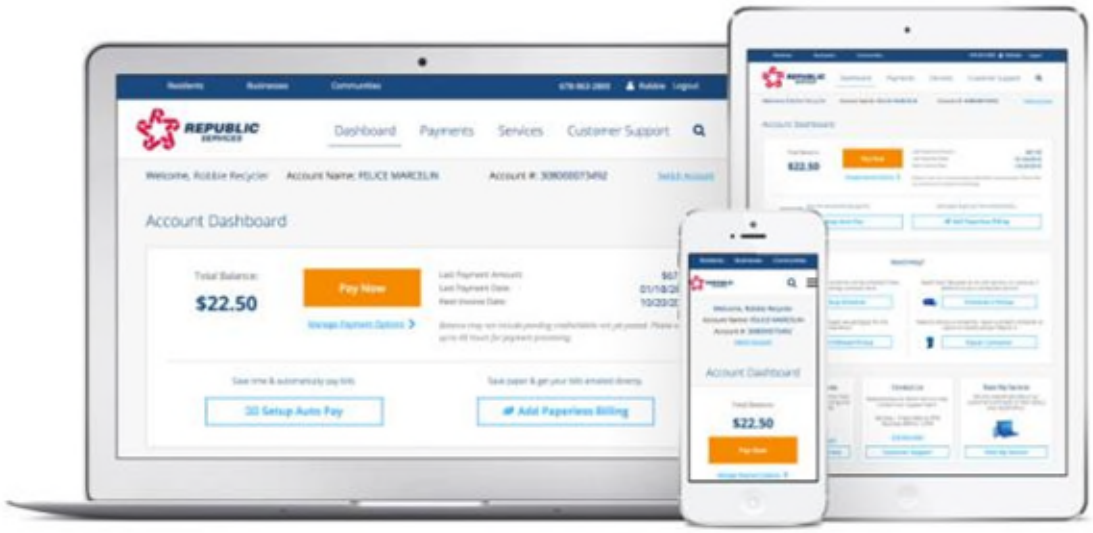
Modern-day customer service is about customer options and simple solutions. Newer generations expect web-based and mobile app-based abilities to self-serve simple needs at any time of the day or night. Indeed, more complex topics may still require a person-to-person interaction. Still, a vast majority of customer service contacts in this industry are topics that can be self-served.

For this reason, Republic Services has invested in creating a complete Service offering that allows customers to request service on their terms.

Our customers now have the ability to reach us 24/7 via our website, *www.RepublicServices.com*, or via our Republic Services mobile app.

Our self-service options are designed to improve overall response time, enabling

*Figure 28. **Web and Mobile App-Based Simple Solutions**. Customers are able to self-serve billing and common requests 24/7 using our web and mobile app offering.*



resolution to simple customer inquiries and needs anytime, anywhere with the least amount of customer inconvenience possible. Through our website and mobile app, customers can:

- Pay their bill
- Schedule an extra pick up
- Discover new services
- Receive weather and holiday service updates
- Sign up for auto-pay and paperless billing
- Submit inquiries or complaints

Access to Live Agents, Virtually

When the pandemic of 2020 hit, we learned some powerful lessons regarding optimal customer service models. We had invested to consolidate our agents into three national call centers for years prior, leveraging technology and training to offer a superior experience to callers. However, in February 2020, as the nation implemented shelter-in-place orders and moved to work-from-home, we leveraged our years of investment in our customer service technology systems to shift all our call center agents to work-from-home in three days. Over 1800 agents began taking calls from home, entirely seamless for the customers who were calling. We found performance improved throughout the months-long pandemic, average call metrics improved, and customer satisfaction scores also improved. A new customer service model had been created and proven in the pandemic, whereby agents could take calls from anywhere, so long as they had access to their technology.

Leveraging this new proven reality, we now recognize that a vast majority of customer calls are for simple items like clarification or cart repairs. Virtual agents can serve from any location. This paradigm shift enables far greater staffing with greater flexibility to attracting top talent from across the country and flexible response to call volume surges.

When a customer calls our Customer Service line, a sophisticated series of actions begin:

- Initial questions for the customer help determine the complexity of the request. Simple requests are routed for virtual agents that can handle calls from anywhere in the country from their own home if needed. More complex needs can be routed to more specialized agents with knowledge of geography and operations if appropriate.
- The customer's phone number then associates with known customer details in our database. It triggers the integrated system to populate with a map of your service address, level of service, past service requests, and city-specific contract information. This knowledge-based system even shows the customer's current weather.
- The agent confirms the customer's name and service address and begins to assist the customer with the reason for their call.
- Suppose the question requires communication with the local operations team (such as, missed pick-up or container exchange). In that case, the agent can instantly connect with the local operations team through our national network.
- Often, the customer's concern is handled by the time s/he hangs up the phone. For those issues requiring operations support, the issue will be addressed in a most timely manner**.**
- Customers have the option to leave a recorded message or speak to a Supervisor if they choose

Post-Call Customer Satisfaction Surveys

When a customer call is completed, the caller is offered the opportunity to take an optional 3-question survey, enabling them to tell us if they are satisfied with the service we have provided. This immediate

insight tells us daily that we are on track and enables us to take corrective action quickly if ever needed.

The survey is voluntary, and if customers choose to participate, they are asked 3 simple questions.

- **Question 1 NPS**: On a scale of 0-10, How likely would you be to recommend Republic Services to a friend or colleague? 0 meaning that you are 'Not at all Likely' and 10 meaning you are 'Extremely Likely' to recommend Republic Services as a recycling and waste provider.
- **Question 2 FCR**: Were we able to resolve your issue or answer your question on this call?
  - a. Press 1 if yes
  - b. Press 2 if the agent could not personally resolve your issue but told you what to expect next.
  - c. Press 3 if the agent did not resolve your issue and did not tell you what would happen next.
- **Question 3 E v. E**: Once you reached an agent, how long did your call with Republic last? Did it take:
  - a. Press 1 if less time than you expected,
  - b. Press 2 if about as much time as you expected, or
  - c. Press 3 if more time than you expected

Our 2020 results are offering in the figure below, indicating NPS with a 9.2 out of 10 satisfaction; 97.8% of callers feeling we achieved First Call resolution and 95.1% feeling we handled their needs in a reasonable time.

Net Promoter Score

Our Voice of Customer program captures feedback from more than 200,000 customers each year. Net Promoter Score (NPS) is at the core of our Voice of Customer program. Most anyone can recall answering the tell-tale NPS question, "On a scale of 1-10, how likely are you to recommend this service to a friend or family member?" Republic Services' strong NPS performance has demonstrated that our

*Figure 29. **Immediate Customer Feedback**. Customers can answer a three-question survey after each call, offering us immediate insight into customer satisfaction.*



customers appreciate our service and our strong commitment to them.

OneFleet

The OneFleet management system enhances the quality of service, maintains a reliable fleet, and ultimately improves customer experience at the curb.

Republic Services is dedicated to operating the best running, safest, and most environmentally friendly vehicles in the industry. This goal is achieved through a coordinated vehicular operation maintenance system called OneFleet.

With standardized procedures and consistent execution, the OneFleet system improves safety for the fleet, decreases repair downtime, and improves customer satisfaction.

Preventive Maintenance

Preventive Maintenance (PM) is the hallmark of One Fleet. Republic Services prescribes six levels of PM activity at varying truck hour markers.

1. Every 150 hours - full inspection, including nuts/bolts/fluids/no cracks
2. Every 450 hours – 1, plus full lubrication service
3. Every 1,350 hours - transmission, front suspension, air-to-air, hydraulics, CNG inspection
4. Every 2,700 hours – 1- 3, plus drain transmission, new filters, and fluids; crank ventilation filters; exhaust system inspection/service, cleaning, catalyst inspection/service
5. Every 5,400 hours – 1-4, plus differential fluids, DPF system, overhead-valve adjustment, fuel systems inspection/service
6. Every Year – Annual Federal Safety Inspection

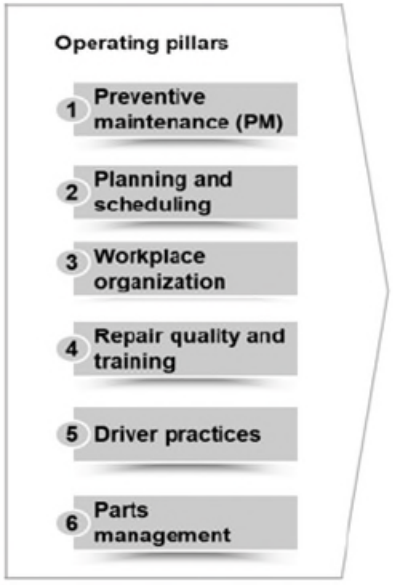
Planning and Scheduling

Our OneFleet system leads the industry in creating a safer, more reliable fleet - both operationally and environmentally

- A scheduled preventive maintenance program enables us to offer a superior fleet traveling on your roads
- Regular preventive maintenance contributes to our 99.9% reliability rate and 39% safer than the industry average
- OneFleet allows us to keep costs low and efficiency high, which ultimately benefits the communities we serve

Standardized planning and scheduling leads to increased shop capacity and reduced fleet downtime. Planning preventive repairs also make certain that parts are on hand and technicians are scheduled accordingly. This also keeps the shop proactive and prepared and provides the benefit of prioritizing repairs and keeping the fleet ready at route time.

*Figure 30. **OneFleet.** Our preventive maintenance system contains Six pillars.*



Workplace Organization

A clean and organized workplace makes for a safer and more efficient environment. At Republic Services, we abide by the Five S's:

- Sort
- Straighten
- Sanitize
- Standardize
- Sustain

Training

The Republic Services OneFleet initiative is built on the foundation of an educated work force. Ongoing tech training, on-the-job projects, as well as formal classroom clinics, are all part of the "Republic Services Way."

Drivers Practice

Joint accountability and proper communication between maintenance crews and operations personnel (drivers and supervisors) fosters fewer unscheduled repairs and breakdowns. Each day, drivers:

- Perform a pre/post-trip driver quality control inspection
- Ensure that any issues they identify are accurately communicated to the shop
- Ensure that customer & route expectations are understood in the mornings

Parts Management

The right part at the right time is critical to maintaining a fleet. With proper inventory management, parts are on hand for all scheduled repairs. That decreases truck and labor down time and reduces overall costs for the customer. Integral to the parts maintenance program is a maintenance bay. The floors and shelves are kept clean and orderly. With proper scheduling, parts are also staged on dumpsters in advance of a technician's arrival.

*Figure 31. **Our highly-specialized technicians** deliver a best–in-class fleet for your municipality.*



The real benefit of OneFleet is the positive impact to the customers. Republic Services drivers begin each day with a safe and reliable fleet. A reliable fleet allows the frontline employees to focus outwards and onto the MSW and recycling needs of the community.

*Figure 32. **Parts Management** is a key component of our successful OneFleet program.*



Vehicle Inspection Reports

The key to the preventive maintenance program is daily completion of vehicle inspection reports. This is done by the collection vehicle's assigned CDL driver and includes both a pre-trip inspection and post-trip inspection. Drivers check fluid levels, lights, tires and other safety related areas of their truck and indicate on the inspection report any defects or deficiencies found that day. Shop personnel review the report and check any items marked by the driver as being questionable or problematic. Technicians then make any needed repairs before the vehicle returns to the route.

Furthermore, each vehicle undergoes a through and comprehensive preventative maintenance inspection (PMI) every 150 hours of service. This inspection is conducted by a trained and certified brake inspector, according to USDOT requirements.

Vehicle Appearance

It is a fact that vehicles that are clean in appearance are usually well-maintained as well. Republic Services washes its collection vehicles weekly, utilizing biodegradable cleansing products, high- and low-pressure washers using a brush.

*Figure 33. **Clean, well maintained trucks**. Our well-maintained fleet is a direct reflection of your municipality.*



VI. Previous Experience

REPUBLIC SERVICES

IV f. Republic Services list of contracts in the tri county area for the last five years.

Palm Beach County	Revenue	$13,856,000.00	Start Date:	10/1/2013	Expiration Date:	9/30/2019	
Number of Homes Serviced:	55,106	Garbage Tons/Year:	54,445	Recycle Tons/Year:	12,178		
Main Contact:	John Archambo - Director of Solid Waste		jarchambo@swa.org	Phone No.:	561-697-2700 Ext. 4725		
Address:	7501 N. Jog Road	City:	West Palm Beach	St:	FL	Zip:	33412

Services are provided with Rear Load Trucks within Service Area 3 of the County's program. Commercial and Industrial collection services are also included in the exclusive franchise. Services are provided six days per week. Republic has serviced the County for over 40 years. Daniel Baker - Operations manager, Joanne Stanley Manager, Municipal Sales 70 employees and two supervisors

Village of Royal Palm Beach	Revenue	$3,266,011.00	Start Date:	10/1/2007	Expiration Date:	11/1/2019	
Number of Homes Serviced:	9,379	Garbage Tons/Year:	9,266	Recycle Tons/Year:	2,073		
Main Contact:	Raymond Liggins - Village Manager		rliggins@royalpalm.com	Phone No.:	(561) 790-5100		
Address:	1050 Royal Palm Beach Blvd.	City:	Royal Palm Breach	St:	FL	Zip:	33411

Services are provided with Automated Side Load Trucks. An additional 3,147 units are serviced at multi-family complexes. Commercial and Industrial services are provided to businesses through an open competitive market. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 9 employees and 1 supervisor

City of Sunrise	Revenue	$7,521,321.00	Start Date:	7/1/1996	Expiration Date:	9/30/2024	
Number of Homes Serviced:	19,268	Garbage Tons/Year:	19,037	Recycle Tons/Year:	4,258		
Main Contact:	Harry Cruz - Utility Finance Manager		hcurz@sunrise.gov	Phone No.:	(954) 746-3233		
Address:	10770 W. Oakland Park Blvd	City:	Sunrise	St:	FL	Zip:	33351

Services are provided with Rear Load Trucks. An additional 19,132 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided seven days per week. Republic has serviced the City for 40 years. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 25 employees and 2 Supervisors

Village of Palm Springs	Revenue	$3,109,000.00	Start Date:	4/1/2008	Expiration Date:	11/1/2019
Number of Homes Serviced:	5,808	Garbage Tons/Year:	5,738	Recycle Tons/Year:	1,284	
Main Contact:	Richard Reade - Village Manager	rreade@vpsfl.org	Phone No.:	(561) 365-4010		
Address:	226 Cypress Ln.	City:	Palm Springs	St:	FL	Zip: 33461
Services are provided with Automated Side Load Trucks. An additional 3,636 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales. 6 employees and 1 supervisor						

City of Coconut Creek	Revenue	$5,179,226.00	Start Date:	2/1/1995	Expiration Date:	9/30/2017
Number of Homes Serviced:	9,241	Garbage Tons/Year:	9,130	Recycle Tons/Year:	2,042	
Main Contact:	Alex Tergis	Atergis@coconutcreek.net	Phone No.:	(954) 746-3233		
Address:	4800 West Copans Road	City:	Coconut Creek	St:	FL	Zip: 33064
Services are provided with Automated Side Load Trucks. An additional 11,059 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 6 employees and 1 supervisor. Also a subcontractor for bulk						

City of Fort Lauderdale	Revenue	$6,620,376.00	Start Date:	7/31/2019	Expiration Date:	7/30/2023
Number of Homes Serviced:	37,996	Garbage Tons/Year:	59,748	Recycle Tons/Year:	0	
Main Contact:	Melissa Doyle- Environmental Manager	mdoyle@fortlauderdale.gov	Phone No.:	954-828-4357		
Address:	100 North Andrews Avenue	City:	Fort Lauderdale	St:	FL	Zip: 33305
Curbside solid waste and yard waste collection services are provided with Automated Side Load Trucks. Yard waste is 13,694 tons per year. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales. 24 employees and 3 supervisors						

City of Weston	Revenue	$8,151,717.00	Start Date:	10/1/2012	Expiration Date:	3/31/2019
Number of Homes Serviced:	17,588	Garbage Tons/Year:	17,377	Recycle Tons/Year:	3,887	
Main Contact:	Karl Thompson - Public Works Director	kthompson@westonfl.org	Phone No.:	(954) 746-3233		
Address:	2599 S. Post Rd.	City:	Weston	St:	FL	Zip: 33332
Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 17 employees and 1 supervisor						

Town of Lantana	Revenue	$999,618.00	Start Date:	6/1/2013	Expiration Date:	3/31/2019	
Number of Homes Serviced:	3,120	Garbage Tons/Year:	3,083	Recycle Tons/Year:	690		
Main Contact:	Debbie Manzo		dmanzo@lantana.org	Phone No.:	(561) 540-5000		
Address:	225 Greynolds Cir.	City:	Lantana	St:	FL	Zip:	33462
Services are provided with Rear Load Trucks. An additional 1,889 units are serviced at multi-family complexes. Commercial and Industrial services are provided to businesses through an open competitive market. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 6 employees and 1 supervisor							

Town of Ocean Ridge	Revenue	$242,512.00	Start Date:	10/1/2009	Expiration Date:	9/30/2019	
Number of Homes Serviced:	1,528	Garbage Tons/Year:	1,510	Recycle Tons/Year:	338		
Main Contact:	Tracey Stevens- Town Manager		tstevens@oceanridgeflorida.com	Phone No.:	(561) 732-2635		
Address:	6450 N. Ocean Blvd	City:	Ocean Ridge	St:	FL	Zip:	33435
Services are provided with Rear Load Trucks for Solid waste, recycling, bulk and yard waste. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 3 employees							

Republic Services has had many smooth transitions between us and other haulers within the State of Florida. We would identify: a detailed timeline, constant communication and transparency as key items (major lessons) we have observed through our recent start-ups that have proven imperative to a successful implementation and partnership.

VII. Business Equipment and Operations

Residential Collection Equipment

Republic Services will use Compress Natural Gas trucks to service the residents and businesses in North Lauderdale.

Figure 35. Automated Side Loader



Figure 34 Residential Automated Side Load Equipment

Vehicle Type	Chassis	Body Type	Year	Fuel	Capacity
4 Automated Side Load	Mack	Leu633 X5	2022	CNG.	28 yards
1 Rear loader	Mack	Heil	2022	CNG	28 yards

Republic Services will be ordering new vehicles for this agreement and anticipate receiving them in Q2 of 2022. We will start the contract with rental equipment until the trucks arrive.

Figure 36 Carts



EWS will provide 2 or 3 Grapple Truck depending on which option the city decides.

Mack GRU 533 Knuckle Grapple with dump Body 30 yards

Residential Carts

Specifications

The spec below is for replacement carts and new customers within the city limits.

Figure 37 Residential Carts

Manufacturer	Size	Dimension
Schafer	95 gallon	44.3X41.6X 27.6
Schafer	65 gallon	41.5X39.1X 34.2

Commercial Collection Equipment

Republic Services will be ordering new vehicles for this agreement and anticipate receiving them in Q2 of 2022. We will start the contract with rental equipment until the truck arrive

Figure 38. Front Load Truck



Figure 39 ***Commercial Collection Equipment***

Vehicle Type	Chassis	Body Type	Year	Fuel	Capacity
1- Front Loader	Mack	MRU633 X!	2022	CNG	28 yards

Dumpster Dimension Guide

The purchase is about 6 weeks, and delivery should take two to three weeks.

Figure 40. The right dumpster for the application.

Dumpster – Slant-top & dumpster – Upright



Multi-Family Collection Equipment

Depending on the type of services, the multifamily may use different equipment to service these communities.

Figure 42 Front Loader



Figure 41. ***Multi-Family Collection Equipment***

Vehicle Type	Chassis	Body Type	Year	Fuel	Capacity
Front Loader	Mack	MRU633 X1	2022	CNG.	28 yards
Roll Off	Mack	Galbreath	2022	CNG	60 K
Automated side loader	Mack	LEU633 X5	2022	CNG	28 yards

Residential Cart & Dumpster Specifications

The purchase is about 6 weeks, and delivery should take two to three weeks.

Figure 43. Various service options



Industrial Collection Equipment

The roll-off fleet is comprised of three-axle collection vehicles with rail and hydraulic hoist systems. These vehicles are extremely durable, and each can service all open-top roll-off sizes while maintaining maneuverability in tight locations and varying terrain.

Republic Services will be ordering new vehicles for this agreement and anticipate receiving them in Q2 of 2022. We will start the contract with rental equipment until the truck arrived

Figure 44. Roll- Off Truck



Figure 45 ***Industrial Collection Equipment***

Vehicle Type	Chassis	Body Type	Year	Fuel Type	Capacity
1 Industrial Roll Off	Mack	Galbreath	2022	CNG	60K

Industrial Roll-Offs

Open-top roll-offs are built to last with heavy gauge steel floors, sides, and pockets along with fully welded in-seams and are designed for compatibility with our fleet. A rust-inhibiting primer inside and out improves durability. Roll-offs meet all applicable ANSI safety standards.

The roll-offs vary in size from 10 to 40 cubic yards. The average life span of these is typically 10 or more years.

Figure 46 ***Industrial Open-Top Roll-Offs.***



Roll-Off Dumpster Dimension Guide

Figure 47. Right roll-off for the application

Roll-Off Dumpster - Boxes



10-Yard	15-Yard	20-Yard	30-Yard	40-Yard
12’8”L x 8’3”W x 4’4”H	15’L x 7’8”W x 4’4”H	22’9”L x 8’3”W x 4’4”H	23’1”L x 8’W x 6’1”H	23’1”L x 8’3”W x 7’9”H

Roll-Off Dumpster - Tubs



10-Yard	20-Yard	30-Yard	40-Yard
12’8”L x 8’3”W x 4’8”H	18’8”L x 8’3”W x 5’8”H	22’8”L x 8’3”W x 6’8”H	22’8”L x 8’3”W x 8’5”H

Camera-Based Technology

samsara

SAMSARA

1. **Key Features Safety Dual facing Camera**
    a. Embedded artificial intelligence
    b. Wide angle lens dual facing camera
        i. Front Facing Camera – field view of 121 degrees, 1080p resolution, 30 frames per second, low light HDR to optimize for bright and low-light conditions
        ii. Driver Facing Camera- field view of 177 degrees, 720p resolution, 30 frames per second, low light Infrared LED for unlit nighttime in-cab video
    c. Built-in audio speaker
        i. Voice coaching
        ii. Audio capture
    d. Recordings
        i. Harsh event recording
        ii. Periodic images- still images captured every few minutes while vehicle is in motion
        iii. Panic button-allows drivers to automatically send alerts and upload footage during emergencies
    e. Data transfer and logging
        i. On-demand upload
        ii. Automatically uploads videos to cloud
    f. Mounting and power
        i. Plug and play installation
2. **Key Features Vehicle Gateway Telematics Data**
    a. GPS Tracking
    b. Engine diagnostics
    c. Fuel efficiency
    d. Driver productivity
    e. 4G LTE cellular connectivity
3. **Real-time AI Detection**
    a. In-Cab Audio Alerting
        i. Distracted Driving
        ii. Following Distance
        iii. Forward Collision Warning
        iv. Harsh Brake
        v. Harsh Acceleration
    b. Additional Driver behavior events
        i. Harsh turn
        ii. Rolling Stops

4. **Web Application/Portal Environment**
    a. Overview

samsara

i. Map overview
ii. Asset tracking-last location, status, fuel level, location
iii. Drivers-name, driving status, vehicle, location
iv. Proximity
1. Search for assets near an address from 100-500 meters up to 90 days back

b. Safety
i. Safety dashboard-safety score, risk factors, performance by driver or vehicle
ii. Safety inbox-all clips from harsh events
iii. Coaching-list of videos assigned to coaches to view
iv. Dash cam-visual view of all driver facing and road facing cameras
v. Video retrieval-pull video footage up to 30 days back from any truck that is on. 1 min full footage, 5-40 min hyper lapse
vi. Driver assignment-matching driver faces to names for AI learning

c. Compliance
i. Compliance dashboard-HOS violations

d. Maintenance
i. Maintenance status-asset and listed faults, engine hours, odometer, check engine light, battery voltage

e. Fuel and Energy
i. Efficiency benchmarks- vehicle, efficiency, fuel used, distance, carbon emissions, cost, engine run time, PTO use, idle time
ii. Driver efficiency report

f. Reports
i. Asset reports, activity reports, safety reports

5. Installation

a. Dual-facing camera
i. Connects to Samsara's VG-series gateways via accessory port for power and connectivity
ii. Mounts on inside of windshield with heavy-duty acrylic foam tape

b. Vehicle gateway
i. Diagnostic interface
1. J1962/OBD-II
2. J1939 (type 1 and 2)
3. J1708 (non-diagnostic, power only)
ii. Auxiliary inputs
1. 2 × digital inputs monitor specialized equipment
2. 1 × digital output, reserved for future use via software update

6. Additional Information

a. https://www.samsara.com/products/models/cm32
b. https://www.samsara.com/products/models/vg34

VIII. Financial Capability

Republic Services is among the leading recycling and waste services companies in the United States, with the financial strength and stability to exceed North Lauderdale's expectations for the duration of the contract and beyond.

Financial Overview

Republic Services' financial stability allows us to guarantee our commitments and obligations presented to North Lauderdale in our proposal. We have the capacity to continually invest in equipment and preventive maintenance, as evidenced by having one of the youngest fleets in the industry.

Republic Services does not use third-party financing, meaning Republic Services owns all assets used to perform the duties of this agreement. North Lauderdale will not need to be concerned with the potential for adverse business or performance conditions affecting the ability of our company to perform or obtain financing.

We implore North Lauderdale to take financial stability into serious consideration when choosing a long-term partner for your recycling and waste needs. In many instances, a service provider's success depends on their ability to invest in necessary equipment or personnel.

Financial Reporting

Republic Services, Inc. provides audited financial statements on behalf of its subsidiaries. Republic Services, Inc. is a publicly traded (NYSE: RSG) Fortune 300 Company and will be the signatory for the corporate guarantee.

Ours most recently completed audited financial statements can be found on our website at RepublicServices.com

The Annual Reports to Shareholders have been prepared in accordance with Securities and Exchange Commission requirements, with New York Stock Exchange Commission requirements, and following generally accepted accounting principles (GAAP).

The financial strength you need in a long-term partner for your municipality

- Financial capacity to continually invest in equipment and preventive maintenance
- One of the youngest fleets in the industry
- Reinvesting in state-of-the-art equipment and facilities
- Republic Services contributes more than $5 million to charities annually

Bankruptcy Proceeding

Republic Services does not have any pending or treats of bankruptcy proceedings.

*Figure 48 **Excellence Driven**. Republic Services takes pride in being excellence-driven, including continuous investment in new vehicles, carts, dumpsters, and technologies.*



Summary Financial Information – Income Statement

Figure 49. ***Republic Services' 2020 Year Ending Consolidated Income Statement.***
Selected financial data. These historical results are not necessarily indicative of the results to be expected in the future. Amounts are in millions, except per share data. The financial statements contained in the Annual Report were audited by Ernst & Young, LLP (Independent Registered Public Accountants).

REPUBLIC SERVICES, INC.
CONSOLIDATED STATEMENTS OF INCOME
(in millions, except per share data)

	Years Ended December 31,		
	2020	2019	2018
Revenue	$ 10,153.6	$ 10,299.4	$ 10,040.9
Expenses:			
Cost of operations	6,100.5	6,298.4	6,150.0
Depreciation, amortization and depletion	1,075.9	1,040.5	1,033.4
Accretion	82.9	81.9	80.7
Selling, general and administrative	1,053.0	1,091.9	1,059.5
Withdrawal costs – multiemployer pension funds	34.5	-	-
Loss (gain) on business divestitures and impairments, net	77.7	(14.7)	(44.9)
Restructuring charges	20.0	14.2	26.4
Operating income	1,709.1	1,787.2	1,735.8
Interest expense	(355.6)	(392.0)	(383.8)
Loss from unconsolidated equity method investments	(118.2)	(112.2)	(35.8)
Loss on extinguishment of debt	(101.9)	-	(0.3)
Interest income	5.2	6.4	1.6
Other income, net	4.1	6.4	3.4
Income before income taxes	1,142.7	1,295.8	1,320.9
Provision for income taxes	173.1	222.0	283.3
Net income	969.6	1,073.8	1,037.6
Net income attributable to non-controlling interests in consolidated subsidiary	(2.4)	(0.5)	(0.7)
Net income attributable to Republic Services, Inc.	$ 967.2	$ 1,073.3	$ 1,036.9
Basic earnings per share attributable to Republic Services, Inc. stockholders:			
Basic earnings per share	$ 3.03	$ 3.34	$ 3.17
Weighted average common shares outstanding	319.3	321.1	326.9
Diluted earnings per share attributable to Republic Services, Inc. stockholders:			
Diluted earnings per share	$ 3.02	$ 3.33	$ 3.16
Weighted average common and common equivalent shares outstanding	319.8	322.0	328.4
Cash dividends per common share	$ 1.66	$ 1.56	$ 1.44

Summary Financial Information – Balance Sheet

Figure 50. ***Republic Services' 2020 Year Ending Consolidated Balance Sheet.*** *Selected financial data.*

REPUBLIC SERVICES, INC.
CONSOLIDATED BALANCE SHEETS
(in millions, except per share data)

	December 31, 2020	December 31, 2019
ASSETS		
Current assets:		
Cash and cash equivalents	$ 38.2	$ 47.1
Accounts receivable, less allowance for doubtful accounts and other of $34.7 and $34.0, respectively	1,091.3	1,125.9
Prepaid expenses and other current assets	392.3	433.0
Total current assets	1,521.8	1,606.0
Restricted cash and marketable securities	149.1	179.4
Property and equipment, net	8,726.2	8,383.5
Goodwill	12,046.4	11,633.4
Other intangible assets, net	173.1	133.9
Other assets	817.4	747.6
Total assets	$ 23,434.0	$ 22,683.8
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	$ 779.0	$ 777.9
Notes payable and current maturities of long-term debt	168.1	929.9
Deferred revenue	345.6	336.0
Accrued landfill and environmental costs, current portion	114.5	132.6
Accrued interest	54.6	74.0
Other accrued liabilities	820.2	814.2
Total current liabilities	2,282.0	3,064.6
Long-term debt, net of current maturities	8,766.1	7,758.6
Accrued landfill and environmental costs, net of current portion	1,694.7	1,703.2
Deferred income taxes and other long-term tax liabilities, net	1,238.8	1,180.6
Insurance reserves, net of current portion	281.8	276.5
Other long-term liabilities	681.8	579.4
Commitments and contingencies		
Stockholders' equity:		
Preferred stock, par value $0.01 per share; 50 shares authorized; none issued	-	-
Common stock, par value $0.01 per share; 750 shares authorized; 318.8 and 353.3 issued including shares held in treasury, respectively	3.2	3.5
Additional paid-in capital	2,741.4	4,994.8
Retained earnings	5,751.8	5,317.3
Treasury stock, at cost; — and 34.5 shares, respectively	(0.1)	(2,199.6)
Accumulated other comprehensive income, net of tax	(12.4)	2.2
Total Republic Services, Inc. stockholders' equity	8,483.9	8,118.2
Non-controlling interests in consolidated subsidiary	4.9	2.7
Total stockholders' equity	8,488.8	8,120.9
Total liabilities and stockholders' equity	$ 23,434.0	$ 22,683.8

The accompanying notes are an integral part of these financial statements.

Bank & Credit References

All inquiries for bank references must be made by fax. Credit References are available upon request.

Bank of America Attn: Confirmation Department Reference: Republic Services Inc. Tax ID 65-0716904 Phone: (803) 832-7770 Fax (Toll #): (900) 733-5100 Online: www.bankVOD.com
J P Morgan Chase Bank Attn: Confirmation Credit Inquiries PO Box 955200 Fort Worth TX 76155-2732 Reference AWIN Management, Inc. Tax ID 76-0353318 Phone: (800) 550 8509 Fax: (817) 345-3795
Wells Fargo Attn: Confirmation Department Reference: Republic Services, Inc. Tax ID 65-0716904 Phone: (540) 563-7323 Fax (Toll #) (844) 879-0544 (Audits and Credit Inquiries) Fax: (844) 879-0416 (Routing Number and Verification Requests)

Please see the 2020 and 2019 Annual reports attached to the electronic bid.

Figure 51. ***Republic Services' Identifications, Classifications, and Ratings***

Republic Services Identifications, Classifications, and Ratings	
Federal Employee Identification Number	65-0716904
Dun's Identification Number	61342862
U.S. Dept. of Labor (SIC) Code	4953 – Sanitary Services / Refuse Systems
North American Industry Classification System (NAICS) - Primary	562212 – Solid waste landfills combined with collection and/or hauling of waste materials
North American Industry Classification System (NAICS) – Secondary	562111 – Solid waste collection 562920 – Material Recovery Facilities 562920 – Other non-hazardous waste treatment and disposal
Standard & Poor's Identification Number and Rating	(TIN): 13-1026995 BBB+
Moody's Identification Number and Rating	(TIN): 13-3998945 Baa3
Fitch's Identification Number and Rating	(NRSRO): 3235-0625 BBB

Letter of Credit

Bank of America Merrill Lynch

Bank of America Merrill Lynch
540 W. Madison Street
IL 4-540-22-23
Chicago, IL 60661
Phone: 312-992-3882

4/22/2021

Andrew Rozwadowski
Purchasing and Contracts Manager
701 SW 71st Avenue, 2nd Floor
North Lauderdale, FL 33068

RE: Financial Capability Letter from Bank of America, N.A.

We have been advised that Republic Services, Inc. (the "Company") is submitting a response to a bid proposal for The City of North Lauderdale, FL. They have asked us to provide you with a letter which addresses their financial capability through this process.

Bank of America, N.A. has had the pleasure of doing business with Republic Services and its subsidiaries for over 20 years. Not only do we enjoy a comprehensive treasury management relationship, but we also have a very significant credit relationship. We serve as Administrative Agent for and participant in, the company's five-year $2.25 billion Revolving Credit Facility and 364-day $1.0 billion Revolving Credit Facility, of which approximately $2.7 billion is available as of this date, to be utilized for direct borrowings and issuance of letters of credit, subject to certain conditions. The facility has been handled as agreed.

Republic Services, Inc. has adequate financial resources and all of their accounts are in good standing. Should you have additional questions about our relationship with Republic Services, please do not hesitate to contact me by phone at: 312-992-3882 or by email at: michael.contreras@bofa.com.

Please note that the information set forth in this letter is subject to change without notice, and is provided in strict confidence, without any responsibility or liability on the part of Bank of America, N.A. Bank of America, N.A. undertakes no responsibility to update the information set forth in this letter.

Very truly yours,

BANK OF AMERICA, N.A.

Michael Contreras
Vice President

IX. Litigation Information

Republic Services is involved in routine judicial and administrative proceedings that arise in the ordinary course of business and that relate to, among other things, personal injury or property damage claims, employment matters, and commercial and contractual disputes. We are subject to federal, state, and local environmental laws and regulations.

Due to the nature of our business, we are also often routinely a party to judicial or administrative proceedings involving governmental authorities and other interested parties related to environmental regulations or liabilities.

From time to time, we may also be subject to actions brought by citizens' groups, adjacent landowners or others in connection with the permitting and licensing of our landfills or transfer stations or alleging personal injury, environmental damage, or violations of the permits and licenses pursuant to which we operate. Additional information can be provided upon request.

In the previous five years, Republic Services has not experienced any of the following claims against:

- Officers of the company
- Local key personnel
- A bid or proposal
- Performance bond
- Any contractual default or termination

Disclosures

City of North Lauderdale, FL RFP
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Matter Name	Description	Substantive Law	Start Date	Case Number	Court	State	Date Resolved	Description of Resolution	Organizational Unit
Acosta, Alberto and Reyes, Edey v. Republic Services of Florida, LP (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse and Republic Services of Florida, Limited Partnership d/b/a Seaside Sanitation)	Plaintiffs allege that the Company automatically deducted 30 minutes each day for a meal break from drivers who did not take uninterrupted 30 minute meal breaks in violation of the Fair Labor Standards Act.	Employment-Wage & Hour	04/24/2017	8:17-cv-00940-JSM-MAP	United States District Court, Middle District of Florida	Florida	08/29/2017	Settled 8/29/2017.	Area 07-Southeast (A) > 4486-Southeast Area General
Aurelien, Scheidna / All Services Refuse (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse Hauling (Florida))	Charging Party alleges discrimination based on her National Origin and race.	Employment-EEO	06/08/2009	EEOC-510-2009-04312	EEOC	Florida	04/11/2011	EEOC dismissed the case issuing a no cause determination.	Area 07-Southeast (A) > 3752-All Service Refuse
Barnes, Dana / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach)	Charging Party alleges discrimination based on age.	Employment-EEO	12/03/2014	EEOC-510-2015-00899; FCHR 201500268	Equal Employment Opportunity Commission; Florida Commission on Human Relations	Florida	06/21/2016	EEOC issued a no cause determination.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Barnes, Dana v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach). (Facility Name: Sunburst Sanitation Hauling)	Plaintiff alleges that he was discriminated against based on his age by the Company.	Employment-EEO & Other	04/14/2016	502016CA002961XXXXMB	Palm Beach County Circuit Court, FL	Florida	07/28/2016	Settled and dismissed with prejudice.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Barrett, Jeffrey v. Republic Services of Florida, Limited Partnership (d/b/a All Service Refuse)	Plaintiff alleges violations of the Federal Labor Standards Act as he alleges he was not paid for all work performed during his employment since he was paid on a per diem basis. Plaintiff alleges that he was subject to an automatic lunch deduction regardless of whether or not he stopped working during his lunch period.	Employment-Wage & Hour	01/30/2018	0:17-cv-62391-JIC	U.S. District Court, Southern District of Florida	Florida	04/30/2018	Settled.	Area 07-Southeast (A) > 3752-All Service Refuse
Barthelemy, Kesner / Republic Services of Orlando (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando)	Charging Party alleges discrimination based on his national origin and claimed disability.	Employment-EEO	06/14/2011	EEOC-846-2011-58685	U.S. Equal Employment Opportunity Commission	Florida	04/05/2012	Settled.	Area 07-Southeast (A) > 3778-Republic Services of Orlando
Batiste, Tawyana / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges gender discrimination.	Employment-EEO	02/25/2014	511-2014-01017	Equal Employment Opportunity Commission	Florida	09/03/2015	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Batiste, Tawyana v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Plaintiff alleges sexual harassment, wrongful discharge, and hostile work environment.	Employment-EEO	12/08/2015	15-9512SC	County Court, Pinellas County, Florida	Florida	03/17/2016	Settled and Dismissed	Area 07-Southeast (A) > 3753-Republic Services of Tampa

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Matter Name	Description	Substantive Law	Start Date	Case Number	Court	State	Date Resolved	Description of Resolution	Organizational Unit
Blas, Anthony / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Seaboard Waste Systems)	Charging Party retained counsel and filed a Charge with the EEOC in which he claims that he was discriminated against based on his disability.	Employment-EEO	12/29/2016	510-2017-01111	U.S. Equal Employment Opportunity Commission / Florida Commission on Human Relations	Florida	07/06/2018	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3607-Seaboard Waste Systems
Brown, Nathaniel v. Republic Services of Florida, L.P. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Plaintiff alleges that he was retaliated against by the Company.	Employment-Other	10/16/2015	CACE-16-008398	Circuit Court of the 16th Judicial Circuit, Broward County	Florida	05/24/2018	Matter settled and lawsuit dismissed.	Area 07-Southeast (A) > 3752-All Service Refuse
Buono, Elizabeth / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems of Jacksonville)	Charging Party alleges discrimination based on her race and gender.	Employment-EEO	06/09/2014	846-2014-17736	Equal Employment Opportunity Commission	Florida	05/18/2016	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3605-Southland Waste Systems of Jacksonville
Carey, Chris / Republic Waste Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on his race.	Employment-EEO	05/24/2016	524-2016-01873	U.S. Equal Employment Opportunity Commission/Florida Commission on Human Relations	Florida	01/24/2018	EEOC issued a no cause finding and dismissed the charge on January 24, 2018.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Carlton Jones, Acnel Moise, Alfredo Gonzalez, Arnold Hill, Derrick Edwards, Eddy Stephene, Gerardo Quinones, Guslaire Cajuste, Joseph Jean Paul, Lawrence Rincon, Levi Bellinger, Lucanes Moimeme, Oge Ceant, Quinton Reese, Rouski Predesca, Sean Jackson, Serena Dawes, and Smith Lordeus v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach and Republic Services of Florida, Limited Partnership d/b/a All Services Refuse)	Plaintiffs filed a Fair Labor Standards Act wage/hour Complaint with the United States District Court for the Southern District of Florida.	Employment-Other	12/30/2014	14-CV-62943	United States District Court, Southern District Court	Florida	08/18/2016	Matter concluded.	Area 07-Southeast (A) > 4486-Southeast Area General
Chan, Wai / Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems	Charging Party alleges discrimination based on her race, age, and national origin.	Employment-EEO	03/26/2013	510-2013-00077	Equal Employment Opportunity Commission	Florida	06/25/2013	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3614-Southland Waste Systems
Chaney, Gene / Republic Services of Orlando (Correct Legal Entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando)	Charging Party alleges discrimination based on race.	Employment-EEO	10/12/2010	EEOC 15F-2010-00277; FEPA 461-2010-00267	EEOC	Florida	02/23/2012	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3778-Republic Services of Orlando
Corbin, Chris / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Volusia County)	Charging Party alleges that he was discriminated against based on his disability and was retaliated against by the Company.	Employment-Other	04/18/2016	EEOC 510-2016-01731	U.S. Equal Employment Opportunity Commission	Florida	09/29/2017	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3776-Republic Services of Volusia County

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Matter Name	Description	Substantive Law	Start Date	Case Number	Court	State	Date Resolved	Description of Resolution	Organizational Unit
Cordero, Joel / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges national origin discrimination.	Employment-EEO	07/01/2013	511-2013-02319	Equal Employment Opportunity Commission	Florida	02/17/2014	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Crescent Resources, LLC Bankruptcy / Crescent Resources Litigation Trust v. Republic Services of Florida, Limited Partnership f/k/a Southland Waste Systems, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems allegedly received preferential transfers within 90 days of the Petition Date that was filed by the debtor under Chapter 11 of the Bankruptcy Code.	Bankruptcy	06/27/2011	Case No. 09-11507; Adv. No. 11-1167	United States Bankruptcy Court, Western District of Texas	Florida	08/06/2011	Settled and dismissed with prejudice.	Area 07-Southeast (A) > 4486-Southeast Area General
Deravice, Jean / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse Service) (3754)	Charging Party alleges discrimination based on national origin, age and retaliation.	Employment-EEO	01/29/2009	EEOC-846-2009-10825	EEOC	Florida	09/30/2013	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Diaz, Jorge / Republic Services of Florida (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach) (3760)	Charging Party alleges discrimination based on national origin.	Employment-EEO	11/06/2009	EEOC-846-2009-51411	EEOC	Florida	09/30/2011	The EEOC issued a no cause determination.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Dorillas, Francillien / Republic Waste Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on his national origin and age.	Employment-EEO	10/29/2015	511-2016-00156	Equal Employment Opportunity Commission	Florida	12/28/2016	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
El Bali, Jamaldine / Republic Services of Sarasota (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Sun Coast Sanitation Transfer Station)	Charging Party alleges discrimination based on his on his race, religion, and national origin.	Employment-EEO	02/04/2016	511-2016-01001	U.S. Equal Employment Opportunity Commission/Florida Commission on Human Rights	Florida	07/11/2018	The EEOC issued a no cause finding on July 11, 2018. Matter concluded.	Area 07-Southeast (A) > 3784-Sun Coast Sanitation
Favors, Lester Jr. / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Charging party has filed a Charge of Discrimination against the Company and alleged discrimination based on race and age.	Employment-EEO	06/16/2020	15D202000985; 202025761	U.S. Equal Employment Opportunity Commission; Florida Commission of Human Relations	Florida	01/12/2021	Florida Commission on Human Relations issued a finding of no reasonable cause and notice of right to sue.	Area 07-Southeast (A) > 3614-Southland Waste Systems
Figgs, Jr., Edward / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Charging Party alleges discrimination based on race, gender and disability.	Employment-EEO	06/21/2016	846-2016-26534	U. S. Equal Employment Opportunity Commission; Jacksonville Human Rights Commission	Florida	08/08/2016	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3614-Southland Waste Systems

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Matter Name	Description	Substantive Law	Start Date	Case Number	Court	State	Date Resolved	Description of Resolution	Organizational Unit
Ford, Shannon / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando)	Charging Party alleges disability discrimination and retaliation.	Employment-EEO	08/04/2015	510-2015-04210	U.S. Equal Employment Opportunity Commission/Florida Commission on Human Relations	Florida	02/28/2019	The EEOC issued a no cause finding on February 28, 2019. Matter concluded.	Area 07-Southeast (A) > 3778-Republic Services of Orlando
Frazier, Eddie / Treasure Coast Refuse (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Treasure Coast Refuse)	Charging Party alleges discrimination based on his age.	Employment-EEO	02/07/2013	EEOC-510-2013-01757	U.S. Equal Employment Opportunity Commission	Florida	11/15/2013	Settled; EEOC charge withdrawn;	Area 07-Southeast (A) > 3758-Treasure Coast Refuse
Geathers, Derrian v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Plaintiff alleges that he was retaliated against by the Company.	Employment-Other	07/01/2016	CACE-16-008398	Circuit Court of the 17th Judicial Circuit, Broward County, Florida	Florida	12/14/2018	Settled.	Area 07-Southeast (A) > 3752-All Service Refuse
Genet Property Group, Inc. v. Republic Services of Florida, Limited Partnership and Waste Services of Florida, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership)	Plaintiffs allege that they were overcharged for solid waste services for a dumpster that was removed from their property. The allegations relate to a collection / hauling operation Republic no longer owns.	Commercial Law	05/03/2012	12-15543CA32	Circuit Court of the Eleventh Judicial Circuit, Miami-Dade County, Florida	Florida	10/14/2016	Settled.	_Divestitures / Closed Divisions (A) > 3763-All Service-Miami Dade Division
Goosby, Raymon / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Seaboard Waste Systems)	Charging Party alleges discrimination based on race American) and disability.	Employment-EEO	07/02/2018	15D201800793; 201812525	U.S. Equal Employment Opportunity Commission / FL Commission on Human Relations	Florida	02/08/2019	Settled and dismissed.	Area 07-Southeast (A) > 3607-Seaboard Waste Systems
Gordon, Thelma & Gordon, Tyrone v. Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach)	The Plaintiffs failed to state a cause of action but it appears to relate to the termination of Tyrone Gordon's employment and his entitlement to unemployment compensation.	Employment-Other	05/20/2011	50 2011CA 006680	Fifteenth Judicial Circuit, Palm Beach County	Florida	12/13/2011	Case dismissed with prejudice on November 16, 2011.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Gordon, Tyrone v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach)	Plaintiff alleges that he was not appropriately compensated for work performed during his employment.	Employment-Other	09/14/2012	12-cv-81186	United States District Court, Southern District of Florida	Florida	07/08/2013	Settled and dismissed with prejudice.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Guillen, Raul v. Republic Services of Florida and Florida Unemployment Appeals Commission (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Pam Beach)	Guillen is appealing the decision made by the Florida Unemployment Appeals Commission that concluded that Guillen was not entitled to receive unemployment benefits.	Employment-Other	01/08/2012		District Court of Appeals of Florida, Third District	Florida	12/20/2012	Settled.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Henderson, Lawrence / Republic Services, Inc. (Correct Legal Entity: Republic Services of Florida, Limited Partnership, d/b/a Southland Waste Systems)	Charging Party alleges discrimination based on race.	Employment-EEO	04/06/2010	EEOC-15E-2010-00156; 258-030310	EEOC & Jacksonville Human Rights Commission	Florida	03/31/2011	Settled (payroll check only)	Area 07-Southeast (A) > 3614-Southland Waste Systems

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March 26, 2021

Matter Name	Description	Substantive Law	Start Date	Case Number	Court	State	Date Resolved	Description of Resolution	Organizational Unit
Hernandez, William / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Charging party alleges discrimination based on his disability.	Employment-EEO	11/04/2013	510-2014-00076	Equal Employment Opportunity Commission	Florida	05/20/2014	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3752-All Service Refuse
Hickman, Arthur / Republic Waste Service (Correct Legal Entity: Republic Services of Florida, Limited Partnership, d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on sex.	Employment-EEO	05/21/2010	EEOC-511-2010-01789	EEOC	Florida	02/08/2012	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Hinzman, Charles / Republic Services of FL (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse)	Charging Party alleges discrimination based on his race and that he was retaliated against by the Company.	Employment-EEO	02/20/2013	511-2013-01042	Equal Employment Opportunity Commission	Florida	03/01/2013	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Hinzman, Charles / Republic Services of FL (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse)	Charging Party alleges discrimination based on retaliation.	Employment-Wage & Hour	06/11/2013	511-2013-02684	U.S. Equal Employment Opportunity Commission	Florida	11/26/2013	The EEOC issued an Order of Dismissal.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Iverson, Vincent / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging party alleges discrimination based on his race .	Employment-EEO	05/31/2011	511-2011-01681	Equal Employment Opportunity Commission	Florida	12/18/2012	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Jenkins, Theresa / Republic Services, Inc.(correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on her disability and claims that she was retaliated against by the Company.	Employment-EEO	08/14/2017	511-2017-02568	U.S. Equal Employment Opportunity Commission	Florida	07/18/2018	The EEOC issued it no cause finding on July 18, 2018. Matter concluded.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Jernigan, Joseph / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando)	Charging party alleges discrimination based on his race and retaliation.	Employment-EEO	02/24/2011	15F-2011-00086; 461-2011-00086	Equal Employment Opportunity Commission	Florida	02/27/2013	EEOC issued a determination finding merit in the allegations of Joseph Jernigan.	Area 07-Southeast (A) > 3778-Republic Services of Orlando
John Wiggins v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Plaintiff alleges that the Company violated the Florida Consumer Collection Practices Act by attempting to collect a debit while they were aware that the Plaintiff had retained legal counsel.	Commercial Law	03/29/2019	2019-cc-425	Fifth Judicial Circuit, State of Florida, Hernando County	Florida	05/02/2019	Settled and dismissed.	Area 07-Southeast (A) > 3757-Seaside Sanitation
Johnson, Henry / Reliable Sanitation (Correct Legal Entity: Republic Services of Florida, Limited Partnership d/b/a Reliable Sanitation)	Charging Party alleges discrimination based on age and retaliation.	Employment-EEO	12/06/2010	510-2010-03446	US EEOC	Florida	07/29/2011	The EEOC issued a no cause determination.	Area 07-Southeast (A) > 3762-Reliable Sanitation

City of North Lauderdale, FL RFP
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Matter Name	Description	Substantive Law	Start Date	Case Number	Court	State	Date Resolved	Description of Resolution	Organizational Unit
Kapec, David v. Hall, Fred, McGee, Letha and Hall, Donald and Southland Waste Systems, Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership)	Plaintiff alleges that the Garnishee, Republic Services of Florida, Limited Partnership, failed to reply and answer a Writ of Garnishment.	Commercial Law	02/10/2011	01-2009-CC-004403; 01-2011-AP-000022	Eighth Judicial Circuit, Alachua County, Florida	Florida	05/11/2012	On May 11, 2012, the Appeals Court affirmed lower court's order denying Plaintiff's motion for default.	Area 07-Southeast (A) > 3639-Southland Waste Systems
Kelly, Jennifer / Republic Services aka Florida Refuse (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse)	Charging Party alleges discrimination based on her claimed disability.	Employment-EEO	11/29/2011	FCHR No. 20120313	Florida Commission on Human Relations	Florida	05/10/2012	Florida Commission on Human Rights issued No Cause Determination	Area 07-Southeast (A) > 3754-Florida Refuse Service
Kesner, Rusmond v. Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach	Plaintiff filed a complaint with the United States District Court for the Southern District of Florida in which he claims damages for unpaid compensation for work performed.	Employment-Unpaid Wages	04/14/2014	14-CIV-80413	United States District for the Southern District of Florida	Florida	05/21/2014	Settled and dismissed with prejudice.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Legezdh, Joshua / All Service Refuse (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Charging party alleges discrimination based on his race.	Employment-EEO	03/04/2011	510-2011-01422	Equal Employment Opportunity Commission	Florida	12/19/2011	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3752-All Service Refuse
Lester Favors v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Plaintiff alleges discrimination based on race and age.	Employment-EEO	01/12/2021	16-2020-CA-007159	Fourth Judicial Circuit of the State of Florida, Duval County	Florida			Area 07-Southeast (A) > 3614-Southland Waste Systems
Mendoza, Jose A. v. Republic Services of Florida, Limited Partnership d/b/a All Service Refuse (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Plaintiff alleges wrongful discharge and failure to pay unpaid leave.	Employment-EEO	07/28/2020	CACE-20-011949	In the Circuit Court of the 17th Judicial Circuit, In and For Broward County, Florida	Florida			Area 07-Southeast (A) > 3752-All Service Refuse
Morris, Aaron v. Republic Services of Florida, LP (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Plaintiff alleges the Company violated the Fair Labor Standards Act.	Employment-Unpaid Wages	12/10/2014	0:14-cv-62797-FAM	U.S. District Court, Southern District of Florida	Florida	04/15/2015	The parties reached a settlement.	Area 07-Southeast (A) > 3752-All Service Refuse
Moses, Howard v. Republic Services of Florida, LP (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse Service	Plaintiff alleges he was retaliated against for filing a worker's compensation claim and for asserting his Family and Medical Leave Act rights.	Employment-Other	04/15/2015	2015CA001319	Circuit Court of the Tenth Judicial Circuit	Florida	10/08/2015	Settled.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Negron, Arnold / Florida Refuse Services, Inc, (correct legal entity: Republic Services of Florida, limited Partnership d/b/a Florida Refuse Service)	Charging party alleges discrimination based on his national origin.	Employment-EEO	05/09/2011	511-2011-01537	Equal Employment Opportunity Commission	Florida	08/23/2012	EEOC filed Dismissal and Notice of Rights	Area 07-Southeast (A) > 3754-Florida Refuse Service
Nixon, Annette / Republic Services of Florida, Limited Partnership d/b/a Republic Services Recycling Center of North Florida	Charging Party alleges discrimination based on her race, national origin, religion, and that she was retaliated against by the Company.	Employment-EEO	03/09/2016	FCHR No.: 201600824; EEOC No.: 15D201600402	Florida Commission on Human Relations; Equal Employment Opportunity Commission	Florida	12/05/2016	FCHR issued a no cause determination.	Area 07-Southeast (A) > 3611-RS Recycling Center of North Florida

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Perry, Zolton / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse)	Charging Party alleges discrimination based on his race and that he was retaliated against by the Company.	Employment-EEO	11/20/2013	846-2013-46662	Equal Employment Opportunity Commission	Florida	11/20/2015	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Railside, LLC. v. Tropical Exchange Corp: Republic Services of Florida, Limited Partnership	Tropical abandoned the premises at 1450 Bell Ave, Fort Pierce, FL. The premises and the Plaintiff's Property has been condemned by the City of Fort Pierce. Copious amounts of abandoned recyclables remain located throughout the premises.	Real Estate	10/28/2020	2019CA001972	St. Lucie	Florida			+TBD
Republic Services of Florida, Limited Partnership d/b/a Southland Recycling Services v. City of Jacksonville	The Company filed a Complaint for Declaratory Judgment against the City, seeking a declaration from the Court that: (i) the Contract for Receipt, Processing, and Sale of Residential Recycling Materials ("Processing Contract") does not require the Company to pay rebates on the non-recyclable residue that is commingled with the recyclable materials the Company receives from the City; and (ii) the Company is entitled to repayment of the amount it has overpaid the City for non-recyclable residue over the course of the Processing Contract.	Contracts	08/31/2015	3:15-cv-1391-J-34MCR	United States District Court, Middle District of Florida	Florida	01/19/2016	Settled and dismissed without prejudice.	Area 07-Southeast (A) > 3611-RS Recycling Center of North Florida
Republic Services of Florida, Limited Partnership v. City of Bartow, Florida; (Correct Legal Entity: Republic Services of Florida, Limited Partnership d/b/a Cedar Trail C&D Landfill, 3779); United States District Court, Middle District of Florida, Cause No. 8:08CV118-T30MAP; (formerly RSI #2008-00015)	Complaint for Declaratory Judgment seeking interpretation of the type of waste that may be disposed of at the Cedar Trail Landfill under a Final Consent Judgment dated September 29, 1994 among Construction and Demolition Disposal, Inc., Soil Resources, Inc., and the City of Bartow.	Contracts	01/18/2008	8:08CV118-T30MAP	Fed. Dist. Ct. - M.D. Fla.	Florida	08/16/2012	Settled, and FDEP issued modified Class I construction and operation permits for Cedar Trail which permits were affirmed on appeal by the Second District Court of Appeal	Area 07-Southeast (A) > 3779-Cedar Trail C&D Landfill
Rios, Oriol / Republic Services of Florida, Limit (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Seaside Sanitation)	Charging Party alleges discrimination based on disability, failure to accommodate an alleged disability, and retaliation. Charging Party also alleges hostile work environment.	Employment-EEO	04/26/2018	510-2018-03739	U.S. Equal Employment Opportunity Commission / FL Commission on Human Relations	Florida	02/15/2019	Matter settled and acknowledged by the EEOC. Matter concluded.	Area 07-Southeast (A) > 3757-Seaside Sanitation
Rivera, Edgardo and Colon, Daniel v. Republic Services of Florida LP (correct legal entity: Republic Services of Florida, Limited Partnership)	Rivera and Colon allege that they were not compensated at the statutory overtime rate for work in excess of 40 hours in violation of FLSA.	Employment-Wage & Hour	08/07/2017	8:17-cv-02414-CEH-MAP	United States District Court of Middle District of Florida, Tampa Division	Florida	05/02/2018	Settled. Dismissed on 1/31/2018.	Area 07-Southeast (A) > 3753-Republic Services of Tampa

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Rogers, Luvert / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Charging Party alleges discrimination based on race and retaliation.	Employment-EEO	12/11/2014	15E-2015-00039; 0270-07222014-E	Equal Employment Opportunity Commission / Jacksonville Human Rights Commission	Florida	01/24/2019	The Jacksonville HR Commission issued a no cause finding on January 24, 2019 and the EEOC adopted the JHRC findings on April 3, 2019.	Area 07-Southeast (A) > 3614-Southland Waste Systems
Russo, Anthony / Republic Services of Florida, Limited Partnership d/b/a Republic Waste Services (correct d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on age and race and color.	Employment-EEO	06/03/2019	15H-2019-00048; 1905-064	U.S. Equal Employment Opportunity Commission / Pinellas County Office of Human Rights	Florida	12/11/2019	The Commission issued a no cause finding and dismissed the Charge on December 11, 2019.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Seay, Richard v. Republic Services of Florida, Limited Partnership d/b/a Florida Refuse Service	Plaintiff alleges damages for wrongful termination.	Employment-EEO & Other	12/08/2016	2016CA-001508-0000-00	Circuit Court of the Tenth Judicial Circuit, Polk County, Florida	Florida	06/17/2017	Settled and dismissed.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Stanislaus, Angeline / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando)	Charging Party alleges discrimination based on gender and also alleges retaliation by the Company.	Employment EEO	07/28/2014	510 2014 04107	U.S. Equal Employment Opportunity Commission	Florida	04/17/2018	The EEOC issued its no cause finding on April 17, 2018; matter dismissed.	Area 07 Southeast (A) > 3778-Republic Services of Orlando
Stanislaus, Angeline v. Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando	Plaintiff alleges sexual harassment, gender discrimination, and retaliation.	Employment-EEO	05/15/2018	6:18-cv-00740-RBD-TBS	United States District Court, Middle District of Florida, Orlando Division	Florida	02/12/2019	Settled and case dismissed.	Area 07-Southeast (A) > 3778-Republic Services of Orlando
State of Florida Department of Corrections (Polk County Facility) v. Republic Services of Florida, LP (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse Service)	The State of Florida Department of Corrections alleges that Republic Services of Florida, LP is trespassing on their property by failing to remove its equipment after the contract was cancelled.	Commercial Law	01/17/2011	53-2010CC006354	Polk	Florida	08/08/2011	Settled and dismissed with prejudice.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Stephens, Levar / Republic Services of Florida (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on his race and retaliation.	Employment-EEO	01/03/2013	511-2013-01252	Equal Employment Opportunity Commission	Florida	11/05/2013	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3757-Seaside Sanitation
Thomson, Averil / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership, d/b/a Southland Waste Systems)	Charging party alleges discrimination based on his age.	Employment-EEO	04/19/2010	15E-2010-00172; 281-031810	Equal Employment Opportunity Commission	Florida	08/18/2015	The Jacksonville Human Rights Commission issued a no cause determination.	Area 07-Southeast (A) > 3614-Southland Waste Systems

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Valdes, Elienai / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Treasure Coast Refuse)	Complainant filed a complaint with OSHA alleging that the Company engaged in retaliatory employment practices.	Employment-EEO	11/14/2013	4-1050-14-005	Occupational Safety and Health Administration	Florida	03/12/2014	Settled.	Area 07-Southeast (A) > 3758-Treasure Coast Refuse
Walthour, Eugene / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Charging Party alleges discrimination based on race.	Employment-EEO	04/22/2014	846-2014-19630	Equal Employment Opportunity Commission / Jacksonville Human Rights Commission	Florida	01/26/2016	The EEOC issued a no cause finding on January 26, 2016. Matter concluded.	Area 07-Southeast (A) > 3614-Southland Waste Systems
Washington, Chantal / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse Service // Republic Services of Polk County)	Charging Party alleges discrimination she discriminated against based on her gender and that she was retaliated against by the Company.	Employment-EEO	02/17/2016	511-2016-00930	Equal Employment Opportunity Commission	Florida	03/17/2016	EEOC was unable to conclude that the information obtained established violations of the statutes.	Area 07-Southeast (A) > 3788-Florida Refuse

Litigation b.

ALL LIQUIDATED DAMAGES MUNICIPAL CONTRACT PER CONTRACT YEAR FOR PAST TEN YEARS			
Republic Services of Florida, Limited Partnership's response to this question is, to the best of its knowledge, complete and accurate as of March 2021, Republic Services of Florida, Limited Partnership obtained information responsive to this question from a review of available corporate records and reasonable inquiry.			
CUSTOMER	LIQUIDATED DAMAGES	VIOLATION DESCRIPTION	DATE OF VIOLATION
Palm Beach County	$19,200.00	-Various service issues but mainly missed p/u (2nd notice) or incomplete route	June through December 2011
	$41,100.00	-Various service issues but mainly missed p/u (2nd notice) or incomplete route	January through September 2013
	$111,811.00	Taking commercial recovered materials that the SWA considered to be trash to a non-SWA	April 22, 2013 (Settled)
	$18,700.00	-Various service issues but mainly missed p/u (2nd notice) or incomplete route	January through December 2014
	$5,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract	January through December 2015
	$200.00	Missed pickup not completed pursuant to section 19 of Franchise contract	January 2016
	$200.00	Missed pickup not completed pursuant to section 19 of Franchise contract	February 2016
	$2,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	March 2016
	$8,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	April 2016
	$1,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	May 2016
	$3,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	June 2016
	$3,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	July 2016
	$0.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	August 2016
	$2,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	September 2016
	$4,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	January 2017
	$2,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	February 2017
	$1,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	March 2017
	$1,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	May 2017
	$8,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	June 2017
	$2,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	July 2017
	$5,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	October 2017
	$4,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	November 2017
	$11,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	December 2017
	$9,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	January 2018
	$18,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	February 2018
	$81,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	March 2018
	$15,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	April 2018
	$11,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	May 2018
	$27,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	June 2018

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	$22,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	July 2018
	$28,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	August 2018
	$4,800.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	September 2018
	$2,800.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	October 2018
	$20,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	November 2018
	$11,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	December 2018
	$54,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	January 2019
	$8,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	February 2019
	$18,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	March 2019
	$8,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	April 2019
	$9,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	May 2019
	$6,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	June 2019
	$9,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	July 2019
	$7,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	August 2019
Polk County	$32,250.00	- Bulky items not collected with 72 hrs. - Missed collection not serviced within 24 hrs. - Failure to collect whole street - Cart repairs/mixing yard waste/yard waste spill	May through August 2012
	$13,400 *(protested portions resolved pursuant to a settlement agreement dated 6/17/14)*	- Missed garbage pick ups - Failure to collect whole street - Missed recycle pick ups	June through July 2013
	$27,400 *(protested portions resolved pursuant to a settlement agreement dated 6/17/14)*	- Missed recycle pick ups - Issue closed and service not completed	August through September 2013
	$12,100 *(protested portions resolved pursuant to a settlement agreement dated 6/17/14)*	- Missed Pickups - other service issues	February through November 2013
	$34,000 *(resolved pursuant to a settlement agreement dated 6/17/14)*	- Missed Pickups	January 2014
	$3,600.00	- Missed Pickups	June through July 2014
	$19,000.00	- Missed Pickups and other service issues	July through September 2014
	$5,000.00	- Missed Pickups and other service issues	November 2014
	$39,500.00	- Missed Pickups and other service issues	January through July 2015
	$1,500.00	- Late Reporting	October 2015
	$22,500.00	- Missed Pickups and other service issues	Feb through May 2015
	$29,000.00	- Missed Pickups and other service issues	December 2015 - February 2015
	$22,500.00	- Missed Pickups and other service issues	March 2016 - May 2016
	$36,000.00	- Missed Pickups and other service issues	March 2016 - Aug 2016
	$160,000 Assessed and will be addressed in mediation	- Missed Pickups and other service issues	January 2017 - August 2017
	$32,000.00	- Missed Pickups	April through June 2015
	$4,000.00	- Missed Pickups	January 2016
	$24,000.00	- Missed Pickups	June 2016
	$45,000.00	- Missed Pickups	July 2016
	$30,000.00	- Missed Pickups	August 2016
	$0.00	- Missed Pickups	September, 2016
	$0.00	- Missed Pickups	October, 2016
	$0.00	- Missed Pickups	November, 2016
	$5,000.00	- Missed Pickups	December, 2016
	$52,000.00	- Missed Pickups and Service Issues	January, 2017
	$63,500.00	- Missed Pickups and Service Issues	February, 2017
	$99,000.00	- Missed Pickups and Incomplete Routes	March 2017
	$310,000.00	- Missed Pickups and Incomplete Routes	April 2017
	$146,200.00	- Missed Pickups and Incomplete Routes	May 2017
	$26,700.00	- Missed Pickups and Incomplete Routes	June 2017
	$83,425.00	- Missed Pickups and Incomplete Routes	July 2017
	$13,500.00	- Missed Pickups and Incomplete Routes	Aug 2017
	$975.00	- Missed Pickups and Incomplete Routes	Sep 2017

Hillsborough County	$0.00	- Missed Pickups and Incomplete Routes	Oct 2017
	$0.00	- Missed Pickups and Incomplete Routes	Nov 2017
	$1,700.00	- Missed Pickups and Incomplete Routes	Dec 2017
	$1,700.00	- Missed Pickups and Incomplete Routes	Jan 2018
	$26,000.00	- Missed Pickups and Incomplete Routes	Feb 2018
	$34,100.00	- Missed Pickups and Incomplete Routes	Mar 2018
	$20,000.00	- Missed Pickups and Incomplete Routes	April 2018
	$10,800.00	- Missed Pickups and Incomplete Routes	May 2018
	$60,000.00	- Missed Pickups and Incomplete Routes	June 2018
	$76,000.00	- Missed Pickups and Incomplete Routes	July 2018
	$76,000.00	- Missed Pickups and Incomplete Routes	Aug 2018
	$179,000.00	- Missed Pickups and Incomplete Routes	Sep-18
	$260,500.00	- Missed Pickups and Incomplete Routes	Oct-18
	$241,000.00	- Missed Pickups and Incomplete Routes	Nov-18
	$265,500.00	- Missed Pickups and Incomplete Routes	Dec-18
	$25,500.00	- Missed Pickups and Incomplete Routes	Jan-19
	$317,600.00	- Missed Pickups and Incomplete Routes	Feb-19
	$12,900.00	- Missed Pickups and Incomplete Routes	Mar-19
	$12,000.00	- Missed Pickups and Incomplete Routes	Apr-19
	$20,000.00	- Missed Pickups and Incomplete Routes	May-19
	$37,000.00	- Missed Pickups and Incomplete Routes	Jun-19
	$3,000.00	- Missed Pickups and Incomplete Routes	Jul-19
	$62,000.00	- Missed Pickups and Incomplete Routes	Aug-19
	$76,750.00	- Missed Pickups and Incomplete Routes	Sep-19
	$12,000.00	- Missed Pickups and Incomplete Routes	Oct-19
	$38,750.00	- Missed Pickups and Incomplete Routes	Nov-19
	$9,000.00	- Missed Pickups and Incomplete Routes	Dec-19
	$2,000.00	- Missed Pickups and Incomplete Routes	Jan-20
	$1,000.00	- Missed Pickups and Incomplete Routes	Feb-20
	$3,000.00	- Missed Pickups and Incomplete Routes	Jul-20
	$5,000.00	- Missed Pickups and Incomplete Routes	Sep-20
Hernando County	$135,000.00	- Missed Pickups and Incomplete Routes	Mar 2018
Volusia County	$106,704.00	- Missed Pickups - Failure to collect bulk waste/other service issues	January through December 2012
	$10,750.00	- Missed Pickups	April through July 2015
	$122,450.00	- Missed Pickups	September - December 2015
	$21,800.00	- Missed Pickups	January 2016
	$2,900.00	- Missed Pickups	February 2016
	$12,575.00	- Missed Pickups	March 2016
	$25,650.00	- Missed Pickups	April 2016
	$11,450.00	- Missed Pickups	May 2016
	$6,000.00	- Missed Pickups	June 2016
	$14,300.00	- Missed Pickups	July 2016
	$8,800.00	- Missed Pickups	August 2016
	$2,700.00	- Missed Pickups	September 2016
	$1,350.00	- Missed Pickups	October 2016
	$3,250.00	- Missed Pickups	November 2016
	$13,600.00	- Missed Pickups	December 2016
	$4,400.00	- Missed Pickups	January 2017
	$3,250.00	- Missed Pickups	February 2017
	$2,900.00	- Missed Pickups	March 2017
	$4,250.00	- Missed Pickups	April 2017
	$1,350.00	- Missed Pickups	May 2017
	$1,400.00	- Missed Pickups	June 2017
	$600.00	- Missed Pickups	July 2017
	$400.00	- Missed Pickups	August 2017
	$0.00	- Missed Pickups	September 2017
	$650.00	- Missed Pickups	October 2017
	$300.00	- Missed Pickups	November 2017
	$0.00	- Missed Pickups	December 2017
	$0.00	- Missed Pickups	January 2018
	$0.00	- Missed Pickups	February 2018
	$750.00	- Missed Pickups	March 2018
	$1,350.00	- Missed Pickups	May 2018
	$16,490.00	-Missed pickups and other service issues	January through April 2015
	$43,831.00	-Missed pickups and other service issues- cart damage	May through June 2015
	$7,300.00	- Comingling yard waste and other service issues	July 2015
	$6,500.00	- Comingling yard waste and other service issues	August through September 2015

	$5,000.00	- Comingling yard waste and other service issues	October 2015
	$3,000.00	- Comingling yard waste and other service issues	November 2015
	$2,000.00	- Service Related Issues	December 2015
	$16,000.00	Cart Damage and Service related issues	January 2016
	$4,500.00	Service Related Issues	January 2016
	$4,000.00	Service Related Issues	February 2016
	$2,490.00	Garbage Spillage , Customer complaints , being in the city late	March 2016
	$11,903.37	Contaminated YW	April 2016
	$7,600.00	- Missed Pickups in excess of 40 per week MSW and yard waste combined - Failure to maintain schedule, specifically, routes not completed before 6:00 pm -Spillage -Over three complaints from same address in 12 month period	May 2016
	$4,115.00	Garbage Spillage , Customer complaints , being in the city late	June 2016
	$7,512.00	Contaminated yard waste, Customer complaints, being in the city late	July 2016
	$9,745.46	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	August 2016
	$1,500.00	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	September 2016
	$2,160.40	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	October 2016
	$3,839.60	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	November 2016
	$4,500.00	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	December 2016
	$4,745.00	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	January 2017
	$2,280.00	Damaged carts, Customer complaints, being in the city late	February 2017
	$4,061.52	Damaged carts, Customer complaints, spilled trash, being in the city late	March 2017
	$2,530.00	Damaged carts, Customer complaints, spilled trash, being in the city late	April 2017
	$2,380.00	Damaged carts, Customer complaints, spilled trash, being in the city late	May 2017
	$2,500.00	Damaged carts, Customer complaints, being in the city late	June 2017
	$3,130.00	Damaged carts, Customer complaints, spilled trash, being in the city late	July 2017
	$3,287.48	Damaged carts, Customer complaints, spilled trash, being in the city late	August 2017
	$1,500.00	Damaged carts, Customer complaints, spilled trash, being in the city late	September 2017
City of Ft Lauderdale	$3,500.00	Damaged carts, Customer complaints, spilled trash, being in the city late	October 2017
	$2,300.00	Damaged carts, Customer complaints, spilled trash, being in the city late	November 2017
	$2,300.00	Damaged carts, Customer complaints, spilled trash, being in the city late	December 2017
	$2,310.00	Liquidated damage, customer complaints, spilled trash	January 2018
	$5,967.83	Liquidated damage, yard waste contamination, customer complaints, spilled trash	February 2018
	$2,512.70	Liquidated damage, cart damages, Contaminated YW	March 2018
	$2,131.00	Liquidated damage, cart damages, Contaminated YW	April 2018
	$2,949.00	Liquidated damage, cart damages, Contaminated YW 4 of 7	May 2018

$5,593.69	Liquidated damage, cart damages, Contaminated YW	June 2018
$4,540.00	Liquidated damage, cart damages, Contaminated YW	July 2018
$5,075.00	Liquidated damage, cart damages, Contaminated YW	August 2018
$3,150.00	Liquidated damage, cart damages, Contaminated YW	September 2018
$2,750.00		October 2018
$2,480.00	Liquidated damage, cart damages, Contaminated YW	November 2018
$6,000.00	Liquidated damage, cart damages, Contaminated YW	December 2018
$5,960.00	Liquidated damage, cart damages, Contaminated YW	January 2019
$2,150.00	Liquidated damage, cart damages, Contaminated YW	February 2019
$7,102.50	Liquidated damage, cart damages, Contaminated YW	March 2019
$7,103.50	Liquidated damage, cart damages, Contaminated YW	April 2019
$4,300.00	Liquidated damage, cart damages, Contaminated YW	May 2019
$4,730.00	Liquidated damage, cart damages, Contaminated YW	June 2019
$7,220.00	Liquidated damage, cart damages, Contaminated YW	July 2019
$8,880.00	Liquidated damage, cart damages, Contaminated YW	August 2019
$6,360.00	Liquidated damage, cart damages, Contaminated YW	September 2019
$14,630.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	October 2019
$7,920.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	November 2019
$4,700.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	December 2019
$10,760.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short	January 2020
$4,995.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short	February 2020
$6,210.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short	March 2020
$5,190.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	April 2020
$9,835.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	May 2020
$13,195.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	June 2020
$20,845.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	July 2020
$18,285.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	August 2020
$11,435.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	September 2020
$19,165.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	October 2020
$38,035.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	November 2020

5 of 7

	$13,035.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	December 2020
	$9,675.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	January 2021
	$15,285.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	February 2021
	$15,000.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	
City of Weston	$36,252.50	-non collection of bulk waste	January through June 2015
	$1,050.00	-Missed Pick Ups	November 2015
	$3,325.00	-Missed Pick Ups	January 2016
	$920.00	-Missed Pick Ups	February 2016
	$2,360.00	-Missed Pick Ups	March 2016
	$6,190.00	-Missed Pick Ups	April 2016
	$1,600.00	-Bulk missed Pick Ups	May 2020
City of Jacksonville	$13,850.00	- Missed pick ups	March through August 2015
	$4,250.00	Failure to report incomplete routes	September 2015
	$1,475.00	- Failure to address customer complaint - other service issues	October 2015
	$5,400.00		December 2015
	$2,425.00		January 2016
	$9,200.00		February 2016
	$38,125.00		March 2016
	$6,650.00		April 2016
	$2,075.00		May 2016
	$2,875.00		June 2016
	$1,800.00		July 2016
	$1,350.00		August 2016
	$800.00		September 2016
	$2,275.00		October 2016
	$2,100.00		November 2016
	$1,750.00		December 2016
	$275.00		January 2017
	$725.00		February 2017
	$1,175.00		March 2017
	$0.00		April 2017
	$3,550.00		May 2017
	$1,875.00		June 2017
	$3,425.00		July 2017
	$4,375.00		August 2017
	$600.00		September 2017
	$825.00		October 2017
	$2,200.00		November 2017
	$1,075.00		December 2017
	$1,950.00		January 2018
	$2,175.00		February 2018
	$22,025.00		March 2018
	$25,650.00		April 2018
	$28,285.00		May 2018
	$79,325.00		June 2018
	$57,125.00		July 2018
	$47,025.00		August 2018
	-$13,015.00		September 2018 - Credit
	$11,695.00		October 2018
	$117.50		November 2018
	$10,262.50		December 2018
	$54,900.00		January 2019
	$57,750.00		February 2019
	$7,325.00		March 2019
	$17,900.00		April 2019
	$20,500.00		May 2019
	$14,625.00		June 2019
	$12,525.00		July 2019
	$15,500.00		August 2019
	$1,900.00		September 2019

	$100.00		October 2019
	$3,384.00		November 2019
	$1,875.00		December 2019
	$500.00		January 2020
	$9,975.00		February 2020
	$0.00		March 2020
	$0.00		April 2020
	$33,125.00		May 2020
	$52,475.00		June 2020
	$63,262.50		July 2020
	$128,375.00		August 2020
	$57,200.00		September 2020
	$60,300.00		October 2020
	$13,625.00		November 2020
	$25,275.00		December 2020
	-$19,005.00		January 2021
	-$237.50		February 2021
	$30,205.00		March 2021

X. Business Structure & Professional Registration

Certificate of Good Standing

State of Florida
Department of State

I certify from the records of this office that REPUBLIC SERVICES OF FLORIDA, LIMITED PARTNERSHIP is a Delaware limited partnership authorized to transact business in the State of Florida, qualified on December 27, 1999.

The document number of this limited partnership is B99000000467.

I further certify that said limited partnership has paid all fees due this office through December 31, 2020 and that its status is active.

I further certify that said limited partnership has not filed a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twelfth day of March, 2021

Secretary of State

Tracking Number: 5814230626CU

To authenticate this certificate,visit the following site,enter this number, and then follow the instructions displayed.

https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

Broward County Business Tax Receipt

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-83 1-4000
VALID OCTOBER 1, 2020 THROUGH SEPTEMBER 30, 2021

DBA:
Business Name: ALL SERVICE REFUSE REPUBLIC SERVICES OF FL LP

Receipt #: 326-3550
Business Type: COURIER/TRANSPORT/DLVRY/TOWING (SOLID WASTE/RECYCLING/REMOVAL)

Owner Name: REPUBLIC SERVICES INC
Business Location: 751 NW 31 AVE FT LAUDERDALE
Business Phone: 954-583-1830

Business Opened: 09/27/2004
State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		275		

For Vending Business Only — Number of Machines: — Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
150.00	0.00	0.00	0.00	0.00	0.00	150.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:

REPUBLIC SERVICES INC
751 NW 31 AVE
FORT LAUDERDALE, FL 33311

Receipt #WWW-19-00197842
Paid 07/20/2020 150.00

2020 - 2021

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-83 1-4000
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State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		275		

Signature

For Vending Business Only — Number of Machines: — Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
150.00	0.00	0.00	0.00	0.00	0.00	150.00

Receipt #WWW-19-00197842
Paid 07/20/2020 150.00

Corporate Data Sheet

Corporate Data Sheet Report

As of March 25, 2021

Republic Services of Florida, Limited Partnership

Formed in Delaware on 12/02/1999

Status:	Current		
Entity Type :	Limited Partnership		
Federal ID #:	65-0965470	**Internal #:**	XY
Domicile:			

Primary Address

18500 North Allied Way
Phoenix, Arizona 85054

Partners

	Title
Republic Services of Florida GP, Inc.	General Partner
Republic Services of Florida LP, Inc.	Limited Partner

Direct Owners

	Registered in	%Ownership
Republic Services of Florida GP, Inc.	Delaware	1.0000 %
Republic Services of Florida LP, Inc.	Delaware	99.0000 %

Registrations

	Charter No.	Tax ID No.	Date	End Date
Arizona				
Qualification	3007917		12/04/2012	
Delaware				
Formation	3136069		12/02/1999	
Florida				
Qualification	B99000000467		12/27/1999	
Georgia				
Qualification	0211922		03/07/2002	
North Carolina				
Qualification	1734183		08/01/2018	
South Carolina				
Qualification			12/07/2012	
Washington				
Qualification	UBI#: 603-390-039		03/31/2014	

XI. Added Value and Enhancement

Sustainability

We invest more than $100 million per year in our sustainability initiatives to commit to our blue planet. We are the only solid waste company selected to the prestigious Dow Jones Index for Sustainability in both the North American and World indices.

Our industry-leading sustainability platform focuses on increasing recycling, decreasing vehicle emissions, generating renewable energy, and enabling our customers to be more resourceful. In 2018-19, Republic Services were steadily building upon our sustainability achievements, including:

- The gold standard in corporate sustainability, Republic Services, was named to the Dow Jones Sustainability – North America and World Index™ (DJSI) - for the fourth straight year.
- Inclusion on two elite lists by the Carbon Disclosure Project (CDP), including the Global Climate A-List and the Supplier A-List. The CDP is an organization based in the United Kingdom which works with shareholders and corporations to disclose the greenhouse emissions of major corporations. In the last assessment, we scored 98 out of 100 in the S&P 500 Climate Change Assessment
- Receiving the industry's top awards for Recycling Facility of the Year. Both Republic Services' Southern Nevada Recycling Center, the largest and smartest residential recycling facility in North America, and the Plano Recycling Center were recognized by the top two industry associations for their excellence and innovation.
- Recognition for landfill gas utilization excellence by the Georgia Chapter of the Solid Waste Association of North America. Three Republic Services facilities in the metro-Atlanta area

Republic Services' blue planet initiative strives for a cleaner, safer and healthier world

- Named to the Dow Jones Sustainability Index for a fourth straight year
- Added 150K tons of recycling capability in 2018
- Scored 98 out of 100 in the Carbon Disclosure Project S&P 500 Climate Change Assessment
- More than a quarter of a million homes can be powered by our 75 landfill-gas-to-energy plants
- 3,200 (and counting) compressed natural gas vehicles



Figure 52. ***Committed to Sustainability****. Republic Services' sustainability goals trace to five key areas*

- generate more than 24 megawatts of renewable energy, capable of powering more than 15,600 homes.
- For the fourth year in a row, Republic Services was named a World's Most Ethical Company® by the Ethisphere® Institute – Republic Services is the sole recycling and solid waste services provider listed under the Environmental Services category.

We continue to find new avenues for sustainability success. Consider our five-point sustainability platform (see Figure 68):

Operations We are working to minimize the impact of our operations around our fleet and our facilities. We have established aggressive sustainability goals now through the year 2030.

Materials Management When we extract materials from the waste stream (commodities and/or energy), we reduce greenhouse gas emissions and your community's carbon footprint.

Communities Our Empty, Clean, Dry™ recycling outreach and education program help your residents and business community recycle more and waste less.

Safety We are committed to creating a safe environment for our customers, communities, and employees. A recent national study found that Republic Services is the safest solid waste company – by a 40 percent margin.

People We employ and develop talented professionals who are committed to sustainability, our customers, and each other.

*Figure 53. **Five Elements of Sustainability**. Republic Services is the lowest risk, best-value partner for your municipality, focusing our sustainability platform around these five areas*



Safety

Safety is Republic Services' highest priority. We adhere to a strict safety protocol policy with supporting infrastructure, where employees are trained to Think. Choose. Live.®

Safety Overview

Republic Services has an industry-leading safety program that has been 40% better than the industry average for the past nine years, based on OSHA data. In addition, we have been recipients of 75% of industry Driver of the Year awards for the large truck category since 2009.

Republic Services maintains strict compliance with all applicable OSHA and Federal, State, and Local safety requirements while performing all work-related functions.

We recognize that a safe workforce is not simply a discussion with a new hire but a dedicated plan to review, educate, and verify employee practices throughout their career.

Republic Services has the lowest occurrence of incidents and crashes in the industry due to our company-wide emphasis on safety, extensive employee training, and ongoing educational development programs. Republic Services requires all operations personnel to participate in extensive classroom training, testing and on-road auditing, and policy reinforcement.

Republic Services offers full-spectrum safety initiatives and award-winning safety training programs to all employees. We are an industry leader in safety, and we are very proud of our safety track record.

Think. Choose. Live.®

Every day, drivers face a multitude of challenges and are required to make decisions that can greatly impact their safety and the safety of those in the communities we serve. Our best-in-class driver training program focuses on the continual improvement of all our 15,000 drivers.

Our employees are our greatest asset, and our dedication to every employee's safety is second to none

- 40% safer than the industry average, while maintaining the 8th largest vocational fleet in the United States
- Think. Choose. Live.® embodies our company culture
- Winners of 75% of industry Driver of the Year awards since 2009

Our Think. Choose. Live.® philosophy helps navigate these situations by encouraging employees to Think about their actions, Choose the safest approach and Live to go home to their families at the end of each day.

ReSOP Program

The Republic Services Observation Program (ReSOP) is paramount to decreasing safety incidents. Supervisors are required to conduct a minimum of two in-person employee observations per week.

The purpose is to improve safety, customer experience, and productivity. The employee and their leader work together toward excellence.

Safety Meetings & Training

*Figure 54. **Republic Services ReSOP.** Program decreased safety incidents since implementation.*



Republic Services provides weekly, monthly, and annual safety training for all our employees.

Safety topics are developed based on the subject matter required under OSHA regulation. Republic Services prepares well-developed tailgate sessions, provides translators to engage all employees, and encourages open discussion and participation.

Meeting topics may include:

- Injury and illness prevention/safety rules
- Back injury prevention
- Emergency response/fire safety
- Exposure control plan
- Drug and alcohol program
- Personal protective equipment
- Employee right-to-know
- Hearing conservation safety
- Lockout and tag out safety
- Slips, trips, and falls
- Confined space entry

Safety Recognition Program

The Republic Services Dedicated to Safety and Dedicated to Excellence programs are designed to identify, recognize and reward safety-sensitive employees who are dedicated to safety and excellence in their workplace.

Employee safety and excellence are measured on six criteria: no preventable crashes or injuries, no unscheduled lost time, and no safety warning letters. Each employee who qualifies is recognized monthly, quarterly, and annually.

Quality Control

To ensure extreme reliability and a consistently high level of customer service, Republic Services has a quality control program called Driver Service Management (DSM).

DSM includes an extensive driver-lead reporting process, accompanied by regular auditing, that is focused on safeguarding against procedural failures. DSM standards guarantee that all driver issues will be addressed and completely resolved by supervisors or management within seven days of discovery.

Other key benefits of this program include:

- Increased driver communication and accountability with Republic Services management
- Improved documentation and resolution of driver issues
- Improved customer service
- Improved on-route safety

The program is monitored and conducted by a Driver Service Coordinator responsible for:

- Conducting pre- and post-route briefings with drivers
- Entering and monitoring DSM issues
- Running and distributing reports

Drivers must observe and record issues while performing collection duties and report findings to the Driver Service Coordinator during the pre-and post-route briefings daily.

The objective of the pre-route briefing is to ensure all drivers have the necessary tools to run their routes safely, competently, and accurately each day. The Driver Service

*Figure 55. **Continually Improving Safety** is Top Goal for Republic Services.*



Coordinator reviews the following topics during the briefing:

- Confirms the driver is wearing the proper uniform and gear: clean uniform and personal protective equipment (PPE)
- Confirms the driver has the necessary route paperwork: sequenced route sheets and special/extra paperwork
- Confirms the driver has completed the pre-trip vehicle inspection report
- Ensures route completion by the end of the day

During collection activities, drivers are instructed to make notes on their route sheets throughout the day. The objective of the post-route briefing is to collect all valuable route information from each driver. Driver Service Coordinators must complete the post-route briefing section of the Driver Check-In form, and drivers must sign the form before clocking out each day.

Finally, Driver Service Coordinators must submit any findings to the appropriate department that same day. For example, customer service will receive issues such as billing concerns and questions; operations will receive issues such as poorly sequenced routes; sales will receive items such as commercial overage issues; safety will receive information pertaining to safety items such as low hanging wires or dangerous dumpster locations, and maintenance will be forwarded issues such as repair and replacement needs.

Should an item remain open for longer than seven days, it is forwarded to the General Manager to bring matters to an immediate resolution.

To track items, the following reports are produced:

- Driver Service Issues Cover Sheets are printed automatically each day for any route that has associated issues and is distributed to drivers along with their daily route sheets
- Open Issue Reports are run daily by department managers and include the day's new issues
- Aged Open Issue Reports are run by the Driver Service Coordinator, as needed, and is intended to bring awareness to the General Manager of challenging issues that need to be resolved
- Closed Issue Reports are posted weekly in the driver break room to increase driver awareness

Together for Safer Roads

As the operator of the 8th largest vocational fleet in the country, with an industry-leading safety record, we directly affect roadway safety each day. While our strong safety performance is significant in the communities we serve, we aspire for more.

Today, we are proud to be the only recycling and waste services provider associated with Together for Safer Roads. This innovative coalition brings together global private-sector companies across industries to

*Figure 56. **Driver performs a pre-route inspection** to ensure the vehicle is safe for operating.*



improve road safety and reduce deaths and injuries caused by road traffic crashes.

The Coalition's mission to provide guidelines and processes to keep employees, partners, and contractors safe on the road closely aligns with our continuous work fostering an environment that provides ongoing road safety education.

Focus 6

Our Focus 6 program provides employees with tips and techniques to reduce the frequency of our six most common types of serious incidents. This industry-leading program involves in-class training and practical skills course exercises that have helped to reduce crashes and injuries.

Personal Protective Equipment

Republic Services is committed to providing the safest collection and disposal processes possible. We recognize that effective management of worker safety and health protection is a decisive factor in reducing the extent, severity, and cost of work-related injuries and illnesses.

Eye, face, head, hand and high visibility PPE is required to be worn when applicable.

*Figure 57. **Our Focus 6 safety program** assists with tips and techniques to reduce our top 6 most common incident types.*



Recycling Simplified

As a leader in the recycling industry, Republic Services is committed to educating consumers on how and what to recycle – we call it Recycling Simplified.

Recycling Economics

For many municipalities, recycling is a core service that residents expect. Republic Services is committed to offering curbside recycling with the framework of a new business model. A general knowledge of how we arrived at the current state provides the basis for the change.

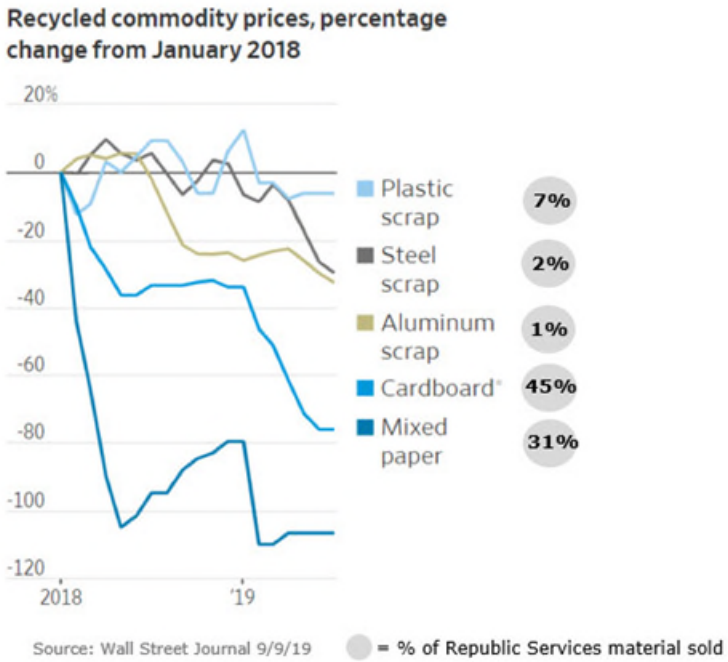
In late 2017, China disrupted the global industry by changing its rules and regulations on imported recyclable material. From total bans on some material to unrealistic quality restrictions on other material had monumental impacts on the sale of recyclable material. China accounted for buying about 40% of the recycling commodities. While China's direction was disruptive, it was only a matter of time before the "old" business model was destined to fail.

Republic Services is creating durable and sustainable processes to ensure municipalities can offer this service to their communities

- On average, one-third of what consumers put in recycling cart doesn't belong
- Collection of recycling commodities should be limited to 3 or 4 items
- The business model must change to make curbside recycling sustainable
- Prior to the disruption to the industry, 30% of Republic's material went to China – today, it is less than 1%
- We continue to invest in technology and equipment

Recycling has never been free. But for a long time, the cost of collecting and processing recycling was covered by the value created by selling the recycled material. What many people don't realize is, even though something is technically

*Figure 58. **Plunging Commodity Prices** as published by the Wall Street Journal in Sept. 2019. About 76% of the material we sell has declined in value 78-105%.*



recyclable, that doesn't necessarily mean there's an end market for it.

The average American household pays about $30 a month for weekly garbage and recycling services. You may be surprised to learn that most of this goes toward the cost of collecting garbage, even though the cost of collecting and processing recycled material is much higher.

We are actively transitioning our municipal customers to a more durable and sustainable pricing model with an equitable risk-sharing arrangement. These new contracts ensure we are paid for the collection and processing of material, and then share the value of the commodity with the municipality.

We know consumers care about recycling, and they have demonstrated a willingness to pay for the service. Paying around just $1 more a week for your weekly recycling service will help keep these services sustainable for future generations.

Despite these recent challenges, we continue to invest in it the recycling business. Recycling is one of the fastest growing segments of the waste stream, in large part due to e-commerce. We're also committed to helping create a cleaner, safer and more sustainable environment for the future.

We are using state-of-the-art technology like optical scanners and even artificial intelligence to help us recover as many recyclable items as possible.

What's changed over the past 25 years is that recycling in the U.S. has never been simpler for consumers, and participation is at an all-time high. This success, however, has resulted in a pricing model that doesn't come close to covering the actual costs of recycling collection and processing, as well as increased contamination rates.

For example, when curbside programs were first introduced, they were largely what we call "source separated," meaning the customer placed different materials in different bins.

- Material was collected in specialized trucks that had multiple compartments and needed to be loaded manually, which was a safety hazard.
- Once a compartment was filled, the truck had to leave the route to dispose of it - this was inefficient and resulted in more

Figure 59. The Recommend Business Model is one where the cost of a recycling program is the sum of fees for the two services – Collection Fee and the Net Processing Fee.



fuel usage, traffic, etc. It was also difficult for customers, so participation was low.

- Admittedly, the quality of recycled materials was much higher than it is today. But given the low participation rates, "source separated" programs were unable to satisfy public policy and regulatory requirements in many markets.

Today, in most markets we offer "single-stream" recycling, in which all recyclables are placed in a single cart. However, the downside is that the quality of the material has decreased dramatically – contamination rates are much higher. On average, more than 30% of what Americans put in their recycling carts doesn't belong there, and that material often exposes good recyclables, like cardboard, to residue from food, liquid, or other waste. This results in more recyclables going to landfills despite the good intentions of consumers.

Another change we've experienced over the decades is the "light-weighting" of packaging. As packaging becomes lighter, we need to process more material to achieve the same weight. In the past we collected 40K water bottles to recycle 1 ton of plastic; with today's lighter bottles, we need to collect 90K water bottles to recycle that same ton of plastic.

Recycling Overview

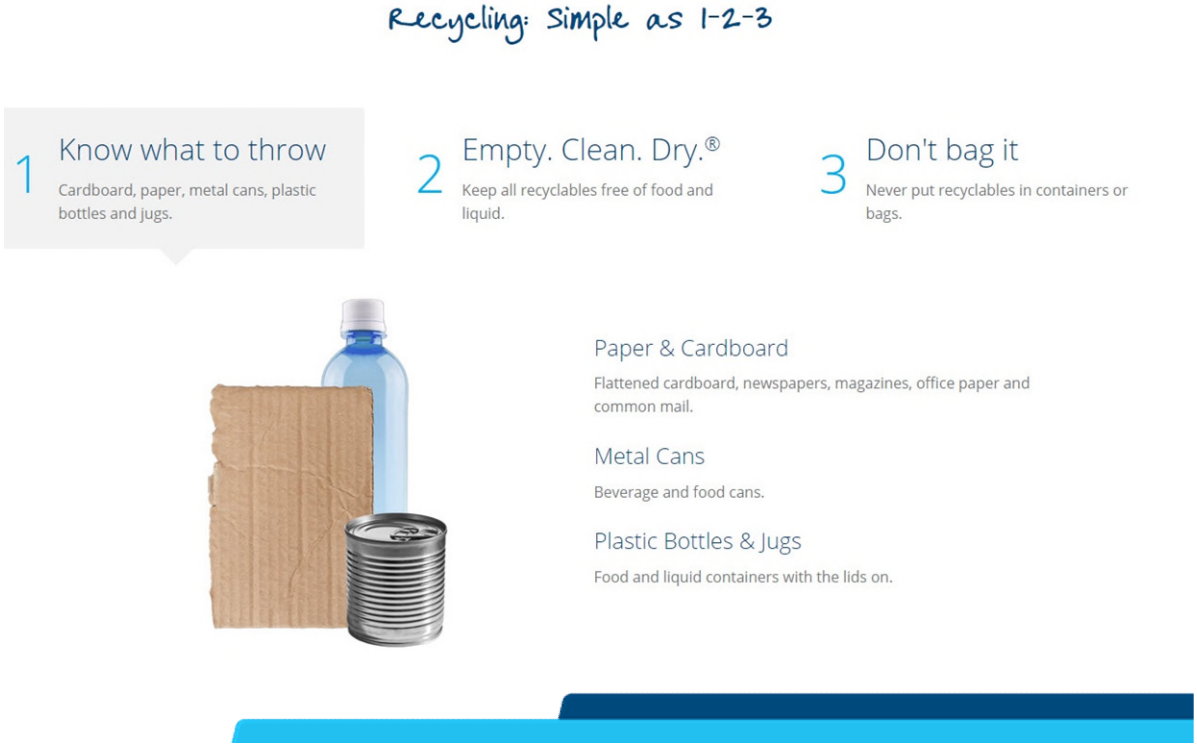
We believe we have a responsibility to educate our customers when it comes to recycling the right way. We understand recycling can be confusing at time, so we have created a campaign to educate people how and what to recycle.

On average, one-third of what consumers put in their recycling carts doesn't belong there. And there aren't enough resources or technology to reverse contamination once it takes place. Some of these items are contaminated with food or another residue. Think of a ketchup bottle – if there's still ketchup inside, it's contaminated and can ruin an entire load of recyclables.

Other items people put into their recycling carts simply shouldn't be there. From dirty diapers to garden hoses to bowling balls, non-recyclable materials should be disposed of or donated.

We know people want to be responsible and do the right thing to ensure the local

Figure 60. Republic Services is making recycling as simple as 1-2-3.



recycling programs they know, and love, are sustainable for future generations. We encourage consumers to take a couple extra minutes a day to think about what they are putting in their carts, and for them to recognize there is a true cost to local recycling programs.

Many people are "wish-cycling" – throwing items in their recycling bin that they hope can be recycled. Remember: When in doubt, throw it out.

There also shouldn't be 50 different items in your recycling cart! Stick to these materials, and you'll be doing it right:

- Paper and cardboard
- Metal or aluminum cans
- Plastic bottles and jugs

We mean it when we say we are making recycling simple. Follow three important rules:

- Know what to throw – [
- Make sure recyclables are Empty. Clean. Dry.
- Don't bag it. Recyclables should be placed loosely in your cart – and plastic bags never belong.

To help consumers know how and what to recycle, we launched our Recycling Simplified campaign. Visit RecyclingSimplified.com for tips, videos and resources to become a better recycler and reduce contamination rates.

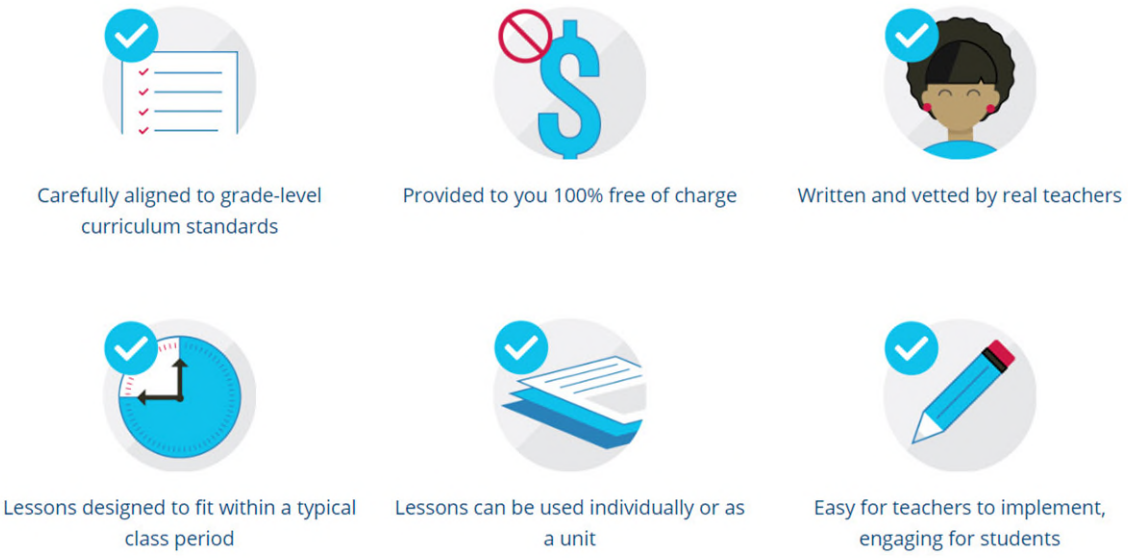
Prior to the recent changes, 30% of our recyclable material used to go to China, now it's less than 1%.

The good news is that we are moving all our recycled material – we have new markets for recyclables both domestically and internationally. But the prices paid for recycled commodities are nowhere near where they were just one year ago.

Education

We are partnering with communities to help reduce contamination and the best way to do this is through education. We also know that the children are integral in driving behaviors in the home. We are extremely proud to offer a free service to the schools to assist in this effort. The Recycling Simplified Education Program contains everything needed to teach students about recycling. You'll find step-by-step lesson plans and supporting materials including

*Figure 61. **Republic Services is proud** to partner with communities to offer lessons and activities for educators built by educators.*



activities, videos, student certificates and handouts for students to bring home. The curriculum is based on grade level. There are four categories – PreK-2, 3rd-5th, 6-8th and 9-12th grade.

Lessons within each grade range build upon students' understanding and help them gain greater awareness of the broader environmental, sustainability, and societal issues related to recycling and its role in conserving natural resources. The lessons can be taught as a unit or individually – whatever fits best for your students and your curriculum.

The Future?

Republic Services doesn't know where the recycling commodity markets will be next year or the next 10 years. We do know that we're making recycling simpler for customers, and if Americans take the necessary steps now, the model will be profitable and sustainable for generations to come.

We believe we can transform the business model from one that largely relies on the value of the recovered commodities to one that fully acknowledges the cost of collecting and processing the recycled material and shares the value of the commodities. We are actively transitioning our municipal customers to a more durable and sustainable pricing model with an equitable risk-sharing arrangement.

Municipalities also need to join us in shifting their focus to extracting materials that have positive environmental (life cycle) benefits and have end markets. Diversion needs to be about re-introducing materials into production and manufacturing systems, not about hitting a number.

Everyone wants to do the right thing, but recycling is a business. Over the past 25 years, state legislatures have been racing to 50%, 75%, or even zero-waste goals.

For Americans, recycling will be much simpler and more convenient in the future. Consumers will better understand what and how to recycle properly. We launched a new website, RecyclingSimplified.com, to help them learn what to recycle while minimizing contamination. We want to simplify the entire process to make it easy for Americans to feel good about what they do to protect our environment.

Figure 62. Visit us at Recyclingsimplified.com for more information.



Public Education and Outreach

Public education is critical to maintaining an efficient and cost-effective service for recycling and waste in your community.

The goal of Republic Services Public Education and Outreach Program is to educate residents on industry trends and the services offered by Republic Services. We do this by engaging community groups and business associations, to educate residents and businesses about the key elements of the program, including relevant program changes, and highlighting customer service, cost, environmental benefits and state requirements.

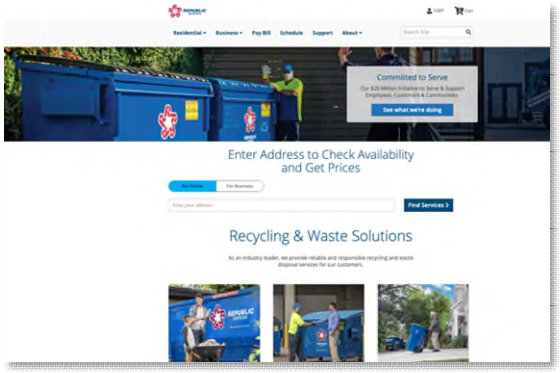
Website

The Republic Services website is designed to be a one-stop resource for current and potential customers. Here they will find news updates, collection information and educational tools. The educational program provides in-depth information for both residential and commercial customers, and the programs are downloadable and can be used for outreach and environmental initiatives. When a resident enters their service address, they will find news and resources specific to North Lauderdale.

RepublicServices.com provides in-depth content specific to residential and commercial needs. Residential pages allow

the user to enter their address to receive information specific to them, including the ability to schedule pickup, or change service. If the customer is direct billed by Republic Services, they can also inquire into billing related questions or even view and securely pay their bill. Residential customers will also find resources on recycling and environmental needs.

*Figure 63. **Republic Services' Website**. RepublicServices.com is a one-stop resource.*



We develop and maintain a library of public education programs and materials that our partners can leverage in their communities

- Instant access to information via website and the Republic Services app
- Facility tours
- School education and take-home materials
- Videos and public service announcements
- Community newsletters

Business pages allow users to login and view/pay their bills, view billing history, and schedule pickups. Commercial users will also find resources on how to responsibly dispose of electronics waste, hazardous household material, and other environmentally harmful materials.

On the main page of RepublicServices.com, visitors will be able to view a video clip of recycling education that features our "closed loop" recycling collection program. This video can easily be edited to focus on any new initiatives agreed upon with North Lauderdale.

Republic Services App

Our application for mobile devices can be used to schedule a pick-up, report a missed pick-up, receive service notifications, search additional products and services, and much more. It can be easily downloaded from the App Store for Apple users or for Android users from Google Play.

Reference Guides & Collateral

As part of the initial program implementation our ongoing education efforts, we will provide the following materials to ensure that residents are fully

aware of the services provided by Republic Services and how to properly use these services.

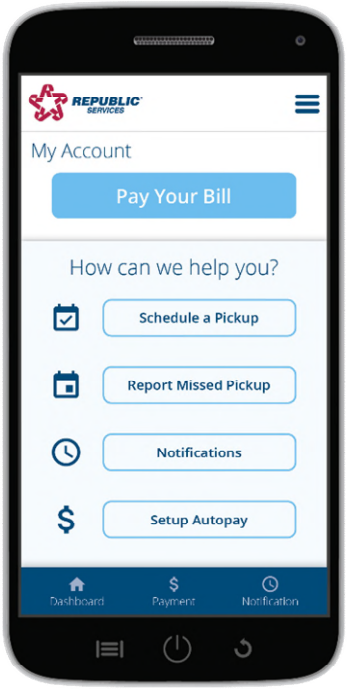
Welcome Packet

At the commencement of service, Republic Services will provide an initial information packet to residents. This packet will contain information on the services offered and proper preparation procedures. In addition, the packet will contain information on additional services and products offered by Republic Services as well as a collection day reminder for their specific location. This packet will also be made available to new residents that move into North Lauderdale.

Annual Education Updates

Republic Services will mail each household an annual reference guide for collection services. This reference guide will contain information on collection services as well as any updates for acceptable or unacceptable materials. The reference guide will also contain information on new products and services available to residents.

*Figure 64. **Mobile App**. Over 2.4M customers use the Republic Services app to instantly access important information on services.*



Oops Tags

Oops tags are our first line of education for residents that have placed unacceptable items at the curb for collection. Drivers and route supervisors will leave an oops tag with the resident if a material cannot be picked up. Oops tags will provide the reason why the item was not picked up as well as a phone number to call for further follow up information.

Presentations to Schools and Other Community Organizations

Republic Services is a well-known friend, supporter and partner to local schools in North Lauderdale. We believe that providing an environmental education to students will build a foundation and an appreciation to preserving and protecting the planet. Students, in turn, bring this knowledge back to their families and become catalysts for promoting sustainable habits at home.

Republic Services provides teachers, staff and students with training on proper diversion and disposal practices. We place significant emphasis on the importance of recycling as it diverts reusable materials from being disposed in and allows for a longer lifespan for local landfills.

We provide education on all aspects of environmental stewardship including trash, electricity, water, paper, chemical, and emissions reductions. Our goal is to empower students to utilize what they have learned in their school communities about environmental sustainability to make a global impact.

Enroll and Involve the Entire School Community in Becoming Great Recyclers

Republic Services will engage school administrators, faculty, staff and students in its efforts to conduct a successful recycling program. Once enrolled, the entire school community will receive specialized education

based on that group's role in promoting recycling.

Republic Services will include the following elements when addressing the education and training needs of each community member:

1) Communication and Feedback

Republic Services will communicate the availability of educational resources to each school's administrators through a variety of outlets prior to the opening of school each fall. In addition, a recycling representative will follow up and respond to school/teacher requests for educational materials, resources, and presentations throughout the year.

2) Logistical Training

Republic Services will meet with administrators, faculty, facilities personnel, and parents (through PTA meetings and other means) initially, and as needed, to establish and provide training on internal materials capture systems. We will provide educational curriculum and program how-to information in a fun format, such as storytelling, recycling relays, competitions, waste audits and videos. Educational curriculum, activities and presentations are geared toward grade level/age groups.

3) Recycling Champions

Republic Services will work with all schools within the district to identify a recycling champion within each school who will act as the school's recycling coordinator. This coordinator will monitor faculty, staff and administrators for optimal, proper recycling program participation, knowledge, and utilization of educational resources provided by Republic Services and other sources. They will also communicate recycling program results to students and staff.

4) District Recycling Committee

Republic Services proposes that the school district recycling committee be comprised of the identified recycling champions named in item 3 above and headed by a district administrator and a Republic Services recycling representative. The recycling committee will meet according to need and district preference until recycling programs are functional in all schools.

5) Recycling Education

All educational materials will be provided in the primary languages represented in the student body of the district and can be found at RecyclingSimplified.com

Republic Services involvement with local schools goes beyond how we can help with environmental education, we also believe in supporting students at all levels. For example, we provide educational and safety programs at local schools featuring characters such as Recycling Rosie, Garbage Gus and Driver Mike.

The presentation is interactive and features information on how to recycle and teaches children how to be safe around collection vehicles. Children receive a complimentary coloring book that reinforces the safety message. At the end of the presentation, children are escorted out to the parking lot, where a Republic Services truck and driver are on hand so that children can sit in the cab, view the controls, and ask the driver questions.

Republic Services also encourages an annual recycling contest among local elementary

*Figure 65. **Engaging kids through schools**. We believe that providing an environmental education to students will build a foundation and an appreciation to preserving and protecting the planet.*



schools. Each school is challenged to reduce waste, recycle more, and separate their food scraps for composting. Schools will compete for the greatest year-over-year diversion results (measured Fall through early Spring). The winning school is rewarded with an all-expenses paid recycling fair that will feature multiple activity stations including recycled art projects, an opportunity to view the inside of a recycling collection truck, and products made from recycled materials.

In addition to providing a unique and comprehensive school outreach program, Republic Services plans to reach out to various community organizations such as the Chamber of Commerce, Rotary, business associations and other appropriate groups to provide detailed recycling outreach education and offer tools and support for successful programs.

Public Events

Republic Services will be a true leader in North Lauderdale, not only because of our dedication to excellence in service, but because we are a proud community partner.

We participate in numerous community events on an annual basis and propose to build on these existing efforts by partnering with North Lauderdale to develop and launch a sustainability-themed outreach schedule for public events.

*Figure 66. **Recycling Education**. Our educational materials include flyers and stickers for distribution through mailers or at schools.*



The program would involve creating a family of "green" recycling-specific educational hand-outs, and a common, customizable booth design that could be used at local street fairs, art festivals and concerts.

Republic Services will not only continue to provide service and assistance to community events, we will also work with event planners to bring additional value. This would include upfront planning for logistics detail, such as placement of dumpsters, providing a full contingent of dumpsters at each collection point with clear messaging to encourage recycling participation, clean up services, sponsorships and educational materials.

We see this as an opportunity to engage with the community to become even stronger and more vibrant. North Lauderdale can count on Republic Services to be a true corporate citizen and community partner in greening the North Lauderdale service area and educating residents and businesses every step of the way.

Promise®

In 2020, the Republic Services Charitable Foundation supported 24 National Neighborhood Promise projects focused on neighborhood revitalization, positively impacting nearly one million residents. This is in addition to ongoing charitable giving by the Company at the business unit level, in-kind contributions and employee giving and volunteerism.

We are good neighbors. We stand for strong neighborhoods. Through our charitable giving platform centered on neighborhood revitalization, we are making a promise to help rebuild, revitalize and restore places and spaces in need, ultimately creating stronger neighborhoods that sit at the heart of our planet.

Our National Neighborhood Promise is a charitable program funded by the Republic Services Charitable Foundation. This program provides financial support, in-kind products and services, and volunteer opportunities to select nonprofit charitable organizations focused on neighborhood revitalizations. These partnerships create a unique opportunity to strengthen the neighborhoods where our employees and customers live and work.

Through our program, we:

- Renovate / build parks & playgrounds
- Plant community gardens
- Restore public infrastructure
- Reduce neighborhood blight
- Clean up communities

How We Partner

The Republic Services Charitable Foundation partners with select nonprofit organizations to directly support neighborhood revitalization projects and programs in local markets. These partnerships are vital to the success of our program and create a unique opportunity to strengthen our neighborhoods side-by-side with the residents and employees that live there.

While the Foundation's primary focus is neighborhood revitalization, we also support nonprofit charitable organizations that demonstrate community impact in the areas of safety, disaster relief and social services.

*Figure 67. **Our 2020 Calendar** is full, and we are continually looking for additional projects for the future.*



Community Engagement

Serving our customers goes beyond handing their recycling and waste needs. Service is about being a good neighbor to the communities where we live, work, and raise our families. Whether we are volunteering or donating our time or resources, our willingness to give back is yet another way we make a difference.

At Republic Services, our customers can always rely on us to handle their recycling and waste needs in a way that is easy and effortless. But our promise goes far beyond our business. We pride ourselves on being a good neighbor and supporting the communities where we live and work. We want to do our part to help build stronger, safer communities.

Thought Leadership

Delivering exceptional services to a community requires that we remain a thought leader in the complex topics that our industry requires. We understand the complex regulations and requirements to responsibly manage and dispose of the nation's recycling and waste.

We are heavily engaged in the top municipal associations in the country, as well as important local organizations, which include:

- National League of Cities (NLC)
- International City Manager's Association (ICMA)
- Council of Mayors
- National Waste and Recycling Association (NWRA)
- Solid Waste Association of North America (SWANA)
- Tamarac North Lauderdale Chamber of Commerce Trustee
- Greater Sunrise Chamber of Commerce-Treasurer
- Coral Springs Coconut Creek Chamber of Commerce Board Member
- Greater Fort Lauderdale Chamber of Commerce

We are a committed, visible partner for your municipality

- We're watching out for your program - partnering with local law enforcement
- $5M donated annually - cash or in-kind
- $6.7M in local sponsorships nationwide

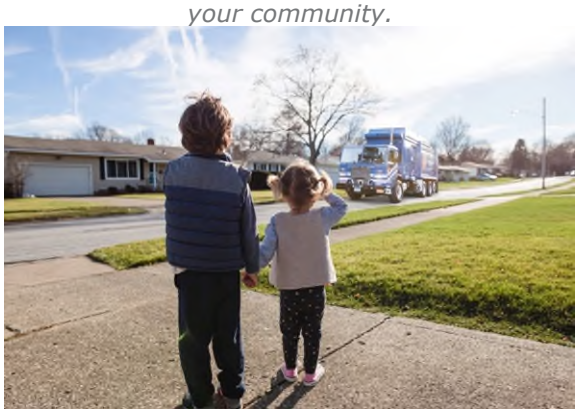
Through these forums, we can contribute as a thought leader, as well as listen and understand the critical and emerging topics within our communities. This enables us to continue to tell our customers that "We'll handle it from here™."

Community Events

Helping the local community and leaders understand the complexity of the industry is a big part of our role. We frequently execute events that enable increased awareness and understanding of how to responsibly dispose of recycling and waste, as well as hold events that assist the community in doing the right thing for our environment.

Shred events help the disposal of large volumes of recyclable paper. Recycling events can educate the community on what and how to recycle properly, using our Empty, Clean and Dry methodology. Lastly, we offer tours of our facilities, to help educate the community on how the operations work, and to show how much effort and care goes into ensuring that the recycling and waste material from your

Figure 68 ***We are a visible*** *and highly engaged partner, because we live and work in your community.*



community is properly handled and disposed in a responsible manner.

In-Kind or Cash Contributions

As a good neighbor, we often support community events and initiatives through in-kind donation of recycling and waste services or cash donations.

Large community events involve large crowds of people. Our event boxes are easily distributed throughout community events, offering easy and environmentally conscious solutions for recycling and waste disposal. Where needed and appropriate, dumpsters can be utilized to manage the consolidation and removal of recycling and waste from an event.

Awards and Recognition

Because of our efforts, Republic Services has been recognized numerous times for our actions as a business and a community partner. Some of these awards and recognition include:

- Named to the CDP Climate "A List" addressing environmental risks and building our future sustainable economy
- Named to both the Dow Jones Sustainability World and North America indices
- Named to the 2020 World's Most Ethical Companies List® by the Ethisphere® Institute for the fourth year in a row
- Great Place to Work certified three years in a row

*Figure 69 **Good neighbors** help build stronger neighborhoods, which is why we volunteer in our communities.*



PUBLIC ENTITY CRIMES

Section 287.132-133(3)(a), Florida Statutes, effective July 1, 1989 require that no public entity shall enter into a contract, award of bid, or transact business in excess of $10,000.00 with any person or affiliate who has been convicted of a public entity crime. Prior to entering into a sworn statement with the Purchasing Department on form 7088.

A copy of the form is reproduced below. This completed form must be on file prior to the issuing of a Purchasing Order.

Sworn Statement Under Section 287.133(3)(a),
Florida Statutes, on Public Entity Crimes

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Solid Waste Services RFP# 21-03-404
   (Solicitation Number and Name)

2. This sworn statement is submitted by Republic Services of Florida,Limited Partnership whose business address is 751 NW 31st Avenue, Lauderhill, FL 33311

   and (if applicable) it's Federal Employer Identification No. (FEIN) is 065-965470 (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement.

3. My name is Jean-Pierre Turgot and my relationship to the entity named above is General Manager.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity of with an agency or political subdivision of any other state or with the United States, including but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

5. I understand that "convicted or conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding or fault or a conviction of a public entity crime, with or without adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a). Florida Statutes, means:

A. A predecessor or successor of a person convicted of a public entity crime; or

B. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of the state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. **(Please indicate which one of the two statements applies.)**

xx Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor the affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, have been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND **(Please indicate which of the three additional statement applies below.)**

___ There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administration Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list.
(Please attach a copy of the Final Order)

___ The person of affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administration Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate form the convicted vendor list.
(Please attach a copy of the Final Order)

___ The person or affiliate has not been placed on the convicted vendor list.
(Please describe any action taken by or pending with the Department of General Services)

PUBLIC ENTITY CRIMES

03/24/2021

Signature Jean-Pierre Turgot

March 25, 2021

Date

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

XX physical presence OR ___ online notarization

This 25 *day of* March, *20* 21.

By Jean-Pierre Turgot

Personally known XX *OR produced identification* ____

Type of identification produced _____

Joanne Hope Stanley

NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

JOANNE HOPE STANLEY
Notary Public - State of Florida
Commission # HH 007732
My Comm. Expires Sep 26, 2024
Bonded through National Notary Assn.

QUALIFICATION STATEMENT

RESPONDER shall furnish the following information. Failure to comply with this requirement will render the solicitation response as non-responsive and shall cause its rejection. Additional sheets shall be attached as required.

RESPONDER'S Name and Principal Address:

Republic Services of Florida, Limited Partnership
751 NW 31st Avenue, Lauderhill, FL 33311

Contact Person's Name & Title: Jean-Pierre Turgot- General manager

RESPONDER'S Telephone: (954) 327-9555

Email jturgot@republicservices.com

RESPONDER'S License Number: 065-965470

(Please attach certificate of status, competency, and/or state registration.)

Number of years your organization has been in business 21

State the number of years your firm has been in business under your present business name 21

State the number of years your firm has been in business in the work specific to this bid: 21

Names and Titles of all officers, partners or individuals doing business under trade name:

Republic Services of Florida, Limited Partnership
Republic Services of Florida, General Partners

The business is a: Sole Proprietorship _____ Partnership x Corporation _____

QUALIFICATION STATEMENT

IF USING A FICTITIOUS NAME, SUBMIT EVIDENCE OF COMPLIANCE WITH FLORIDA FICTITIOUS NAME STATUTE.

Under what former name has your business operated? Include a description of the business. Failure to include such information shall be deemed to be intentional misrepresentation by the City and shall render the proposer bid submittals non-responsive.

All Service Refuse

At what address was that business located?

751 NW 31st Avenue
Lauderhill, FL 33311

Name, address, and telephone number of Surety Company and agent who will provide the required bonds on this contract:

Travelers Casualty and Surety Company of America, Seattle , WA
Amber Engel-206-695-3102

Have you ever failed to complete work awarded to you. If so, when, where and why?

No

Have you personally inspected the proposed work site and do you have a complete plan for its performance?

Yes, we did provide services to North Lauderdale until 2011.

Will you subcontract any part of this work? If so, give details including a list of each subcontractor(s) that will perform work in excess of ten percent (10%) of the contract amount and the work that will be performed by each subcontractor(s).

EWS will be our subcontractor for bulk and yard waste collection services.

*The foregoing list of subcontractor(s) may not be amended after award of the contract without the prior written approval of the City Contract Project Representative, whose approval shall not be reasonably withheld.

QUALIFICATION STATEMENT

List and describe all bankruptcy petitions (voluntary or involuntary) which have been filed by or against the RESPONDER, its parent or subsidiaries or predecessor organizations during the past five (5) years. Include in the description the disposition of each such petition.

Republic Services has never filed for bankruptcy. Please see our annaul report

List and describe all successful Bond claims made to your surety(ies) during the last five (5) years. The list and descriptions should include claims against the bond of the RESPONDER and its predecessor organization(s).

None

List all claims, arbitrations, administrative hearings and lawsuits brought by or against the RESPONDER or its predecessor organizations(s) during the last (10) years. The list shall include all case names; case, arbitration or hearing identification numbers; the name of the project over which the dispute arose; and a description of the subject matter of the dispute.

Please see Section IX in this RFP

List and describe all criminal proceedings or hearings concerning business related offenses in which the RESPONDER, its principals or officers or predecessor organization(s) were defendants.

Republic Services and it management team does not have any criminal proceeding to report

Has the RESPONDER, its principals, officers or predecessor organization(s) been CONVICTED OF A Public Entity Crime, debarred or suspended from bidding by any government entity? If so, provide details.

No, see Section II Required Forms

QUALIFICATION STATEMENT

Are you an [X] Original provider [ ] sales representative [ ] distributor, [ ] broker, [ ] manufacturer [ ] other, of the commodities/services proposed upon? If other than the original provider, explain below.

Republic Services provides solid waste , recycle, bulk and yard waste collection services

Have you ever been debarred or suspended from doing business with any governmental agency? If yes, please explain:

No

Describe the firm's local experience/nature of service with contracts of similar size and complexity, it the previous three (3) years:

Republic Services of Florida, Limited Partnership has held the Exclusive franchise agreement to the following cities.
Sunrise for over 40 years
Coconut Creek for over 23 years
Weston for over 20 years

The RESPONDER acknowledges and understands that the information contained in response to this Qualification Statement shall be relied upon by the CITY in awarding the contract and such information is warranted by RESPONDER to be true. The discovery of any omission or misstatement that materially affects the RESPONDER'S qualifications to perform under the contract shall cause the CITY to reject the solicitation response, and if after the award, to cancel and terminate the award and/or contract.

Print Name of Responder: Jean-Pierre Turgot

Signature of Responder: 03/24/2021

Title of Responder's Representative: General Manager

Date: March 25, 2021



IV f. Republic Services list of contracts in the tri county area for the last five years.

Palm Beach County	Revenue	**$13,856,000.00**	Start Date:	**10/1/2013**	Expiration Date:	**9/30/2019**	
Number of Homes Serviced:	**55,106**	Garbage Tons/Year:	**54,445**	Recycle Tons/Year:	**12,178**		
Main Contact:	**John Archambo - Director of Solid Waste**	**jarchambo@swa.org**	Phone No.:	**561-697-2700 Ext. 4725**			
Address:	**7501 N. Jog Road**	City:	**West Palm Beach**	St:	**FL**	Zip:	**33412**

Services are provided with Rear Load Trucks within Service Area 3 of the County's program. Commercial and Industrial collection services are also included in the exclusive franchise. Services are provided six days per week. Republic has serviced the County for over 40 years. Daniel Baker - Operations manager, Joanne Stanley Manager, Municipal Sales 70 employees and two supervisors

Village of Royal Palm Beach	Revenue	**$3,266,011.00**	Start Date:	**10/1/2007**	Expiration Date:	**11/1/2019**	
Number of Homes Serviced:	**9,379**	Garbage Tons/Year:	**9,266**	Recycle Tons/Year:	**2,073**		
Main Contact:	**Raymond Liggins - Village Manager**	**rliggins@royalpalm.com**	Phone No.:	**(561) 790-5100**			
Address:	**1050 Royal Palm Beach Blvd.**	City:	**Royal Palm Breach**	St:	**FL**	Zip:	**33411**

Services are provided with Automated Side Load Trucks. An additional 3,147 units are serviced at multi-family complexes. Commercial and Industrial services are provided to businesses through an open competitive market. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 9 employees and 1 supervisor

City of Sunrise	Revenue	**$7,521,321.00**	Start Date:	**7/1/1996**	Expiration Date:	**9/30/2024**	
Number of Homes Serviced:	**19,268**	Garbage Tons/Year:	**19,037**	Recycle Tons/Year:	**4,258**		
Main Contact:	**Harry Cruz - Utility Finance Manager**	**hcurz@sunrise.gov**	Phone No.:	**(954) 746-3233**			
Address:	**10770 W. Oakland Park Blvd**	City:	**Sunrise**	St:	**FL**	Zip:	**33351**

Services are provided with Rear Load Trucks. An additional 19,132 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided seven days per week. Republic has serviced the City for 40 years. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 25 employees and 2 Supervisors

Village of Palm Springs	Revenue	$3,109,000.00	Start Date:	4/1/2008	Expiration Date:	11/1/2019
Number of Homes Serviced:	5,808	Garbage Tons/Year:	5,738	Recycle Tons/Year:	1,284	
Main Contact:	Richard Reade - Village Manager	rreade@vpsfl.org	Phone No.:	(561) 365-4010		
Address:	226 Cypress Ln.	City:	Palm Springs	St:	FL	Zip: 33461

Services are provided with Automated Side Load Trucks. An additional 3,636 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales. 6 employees and 1 supervisor

City of Coconut Creek	Revenue	$5,179,226.00	Start Date:	2/1/1995	Expiration Date:	9/30/2017
Number of Homes Serviced:	9,241	Garbage Tons/Year:	9,130	Recycle Tons/Year:	2,042	
Main Contact:	Alex Tergis	Atergis@coconutcreek.net	Phone No.:	(954) 746-3233		
Address:	4800 West Copans Road	City:	Coconut Creek	St:	FL	Zip: 33064

Services are provided with Automated Side Load Trucks. An additional 11,059 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 6 employees and 1 supervisor. Also a subcontractor for bulk

City of Fort Lauderdale	Revenue	$6,620,376.00	Start Date:	7/31/2019	Expiration Date:	7/30/2023
Number of Homes Serviced:	37,996	Garbage Tons/Year:	59,748	Recycle Tons/Year:	0	
Main Contact:	Melissa Doyle- Environmental Manager	mdoyle@fortlauderdale.gov	Phone No.:	954-828-4357		
Address:	100 North Andrews Avenue	City:	Fort Lauderdale	St:	FL	Zip: 33305

Curbside solid waste and yard waste collection services are provided with Automated Side Load Trucks. Yard waste is 13,694 tons per year. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales. 24 employees and 3 supervisors

City of Weston	Revenue	$8,151,717.00	Start Date:	10/1/2012	Expiration Date:	3/31/2019
Number of Homes Serviced:	17,588	Garbage Tons/Year:	17,377	Recycle Tons/Year:	3,887	
Main Contact:	Karl Thompson - Public Works Director	kthompson@westonfl.org	Phone No.:	(954) 746-3233		
Address:	2599 S. Post Rd.	City:	Weston	St:	FL	Zip: 33332

Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 17 employees and 1 supervisor

Town of Lantana	Revenue	$999,618.00	Start Date:	6/1/2013	Expiration Date:	3/31/2019
Number of Homes Serviced:	3,120	Garbage Tons/Year:	3,083	Recycle Tons/Year:	690	
Main Contact:	Debbie Manzo	dmanzo@lantana.org	Phone No.:	(561) 540-5000		
Address:	225 Greynolds Cir.	City:	Lantana	St:	FL	Zip: 33462
Services are provided with Rear Load Trucks. An additional 1,889 units are serviced at multi-family complexes. Commercial and Industrial services are provided to businesses through an open competitive market. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 6 employees and 1 supervisor						

Town of Ocean Ridge	Revenue	$242,512.00	Start Date:	10/1/2009	Expiration Date:	9/30/2019
Number of Homes Serviced:	1,528	Garbage Tons/Year:	1,510	Recycle Tons/Year:	338	
Main Contact:	Tracey Stevens- Town Manager	tstevens@oceanridgeflorida.com	Phone No.:	(561) 732-2635		
Address:	6450 N. Ocean Blvd	City:	Ocean Ridge	St:	FL	Zip: 33435
Services are provided with Rear Load Trucks for Solid waste, recycling, bulk and yard waste. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 3 employees						

REPUBLIC SERVICES

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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the fiscal year ended December 31, 2019

Commission file number: 1-14267

REPUBLIC SERVICES, INC.

(Exact Name of Registrant as Specified in its Charter)

Delaware	**65-0716904**
(State or Other Jurisdiction of Incorporation or Organization)	*(IRS Employer Identification No.)*
18500 North Allied Way **Phoenix, Arizona**	**85054** *(Zip Code)*
(Address of Principal Executive Offices)	

Registrant's telephone number, including area code: (480) 627-2700

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class	Trading Symbol(s)	Name of Each Exchange On Which Registered
Common Stock, par value $0.01 per share	RSG	The New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes ☑ No ☐

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes ☐ No ☑

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☑ No ☐

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☑ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer ☑ Accelerated filer ☐ Smaller reporting company ☐ Emerging growth company ☐

Non-accelerated filer ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes ☐ No ☑

As of June 30, 2019, the aggregate market value of the shares of the Common Stock held by non-affiliates of the registrant was $27.8 billion.

As of February 7, 2020, the registrant had outstanding 319,062,963 shares of Common Stock (excluding treasury shares of 34,451,735).

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Registrant's Proxy Statement relative to the 2020 Annual Meeting of Shareholders are incorporated by reference in Part III hereof.

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Unless the context requires otherwise, all references in this Form 10-K to Republic, the Company, we, us and our refer to Republic Services, Inc. and its consolidated subsidiaries.

PART I

ITEM 1. BUSINESS

Overview

Republic is the second largest provider of non-hazardous solid waste collection, transfer, disposal, recycling, and environmental services in the United States, as measured by revenue. As of December 31, 2019, we operated facilities in 41 states and Puerto Rico through 340 collection operations, 212 transfer stations, 189 active landfills, 79 recycling processing centers, 7 treatment, recovery and disposal facilities, 15 salt water disposal wells, and 4 deep injection wells. We are engaged in 75 landfill gas-to-energy and renewable energy projects and had post-closure responsibility for 130 closed landfills. We were incorporated in Delaware in 1996.

Our operations are national in scope, but the physical collection and recycling or disposal of waste is very much a local business and the dynamics and opportunities differ in each of our markets. By combining local operating management with standardized business practices, we drive greater overall operating efficiency across the Company while maintaining day-to-day operating decisions at the local level, closest to the customer.

The Five Pillars of Our Strategy - Profitable Growth through Differentiation

We believe that our products and services are valuable, and that by developing a superior team and delivering superior products, we can differentiate ourselves from our competitors. Differentiation allows us to attract and retain the best talent, win more customers, increase customer loyalty, and ultimately drive higher revenue and profits. Our strategy of Profitable Growth through Differentiation is built on five key pillars, including (1) market position, (2) operating model, (3) people and talent agenda, (4) customer zeal, and (5) digital platform.

Market Position

The goal of our market position pillar is to develop the best vertically integrated market position to enable us to build density and improve returns. We strive to have a number one or number two market position in each of the markets we serve, or have a clear path on how we will achieve a leading market position over time. In situations where we cannot establish a leading market position, or where operations are not generating acceptable returns, we may decide to divest certain assets and reallocate resources to other markets.

We have a robust market planning process to identify opportunities to grow internally through capital investments and infrastructure development, and externally through acquisitions and public-private partnerships. Additionally, our market planning process allows us to analyze market conditions and proactively adjust to trends as they emerge, including the effects of demographic shifts, and changes in the market and the competitive landscape.

Internal Growth

- Volume Growth - We believe waste volumes are driven by population growth, household formation and new business formation. Volume growth through increases in our customer base and service offerings is the most capital efficient method to grow our business. We seek to obtain long-term contracts for collecting solid waste and recyclable materials under residential collection contracts with municipalities, exclusive franchise agreements, and small-container and large-container contracts. We also look to enter into long-term disposal and recycling processing contracts with municipalities and other third parties. By obtaining such long-term agreements, we can grow our contracted revenue base at a rate consistent with the underlying economic growth in these markets. In addition, by securing long-term agreements, we are better able to help ensure we earn an appropriate return on the capital deployed.
- Price Increases - We seek to secure price increases necessary to offset increased costs, improve our operating margins and earn an appropriate return on our substantial investments in vehicles, equipment, landfills, transfer stations and recycling processing centers.
- Expansion of Recycling Capabilities - Based on the most recent U.S. Environmental Protection Agency (EPA) data, we believe approximately 35% of municipal solid waste is recycled, and we expect that percentage to increase over the long-term. While there are examples of communities cancelling their recycling programs, many more have committed to enhance and expand their recycling programs for their residents. We continue to focus on innovative material handling processes and programs to help our customers achieve their goals related to sustainability and environmentally sound waste practices while also generating an appropriate return. We will continue to look for

opportunities to expand or enhance our recycling capabilities in markets where customers are demanding these services and demonstrating a willingness to pay, and we can earn an appropriate return on our investment.

- Infrastructure Development - We seek to identify opportunities to further our position as a vertically integrated service provider in markets where we are not fully integrated. Our goal is to create market-specific, vertically integrated operations typically consisting of one or more collection operations, transfer stations, landfills and recycling processing centers. Where appropriate, we seek to obtain permits to build transfer stations, recycling processing centers and landfills that would vertically integrate our waste services or expand the service areas for our existing disposal sites. Additionally, we seek opportunities to expand and permit new airspace at our existing landfills in order to replace airspace consumed. Development projects, while generally less capital intensive than acquisitions, typically require extensive permitting efforts that can take years to complete with no assurance of success. We undertake development projects when we believe there is a reasonable probability of success and where reasonably priced acquisition opportunities are not available.

External Growth

- Acquisitions and Public-Private Partnerships - Our acquisition growth strategy focuses primarily on acquiring privately held solid waste and recycling companies that complement our existing business platform. We believe our ability to successfully complete these acquisitions is enhanced by the challenges facing many privately-held companies, including increasing competition in the solid waste industry, increasing capital requirements due to changes in solid waste regulatory requirements and technology and the limited number of exit strategies for privately-held companies. We also evaluate opportunities to acquire operations and facilities that are being divested by other publicly-owned waste companies.

  We continue to invest in value-enhancing acquisitions in existing markets. Generally, we expect to maintain a steady pace of tuck-in acquisition investment of approximately $200 million annually. Given our free cash flow, availability under our credit facilities and our ability to access the public capital markets, we have the financial flexibility to make additional acquisitions that will complement our existing business platform, including larger acquisitions if the right opportunities present themselves.

  We also focus on growth through public-private partnerships, which include the waste and recycling operations and facilities of municipal and other local governments. We believe over time we have an opportunity to acquire operations and facilities from municipalities and other local governments, as they seek to raise capital and/or reduce risk.

  We realize synergies from consolidating businesses into our existing operations, whether through acquisitions or public-private partnerships, which allows us to reduce capital expenditures and expenses associated with truck routing, personnel, fleet maintenance, inventories and back-office administration.

Operating Model

The goal of our operating model pillar is to deliver a consistent, high-quality service to all of our customers through the Republic Way: *One Way. Everywhere. Every day*. This approach of developing standardized processes with rigorous controls and tracking allows us to leverage our scale and deliver durable operational excellence. The Republic Way is the key to harnessing the best of what we do as operators and translating that across all facets of our business.

Organizational Structure

A key enabler of the Republic Way operating model is our organizational structure that fosters a high performance culture by maintaining 360-degree accountability and full profit and loss responsibility with local management, supported by a functional structure to provide subject matter expertise. This structure allows us to take advantage of our scale by coordinating functionally across all of our markets, while empowering local management to respond to unique market dynamics.

Through this operating model, we have rolled out several productivity and cost control initiatives designed to deliver the best service possible to our customers in an efficient and environmentally sound way.

Fleet Automation

Approximately 76% of our residential routes have been converted to automated single-driver trucks. By converting our residential routes to automated service, we reduce labor costs, improve driver productivity, decrease emissions and create a safer work environment for our employees. Additionally, communities using automated vehicles have higher participation rates in recycling programs, thereby complementing our initiative to expand our recycling capabilities.

Fleet Conversion to Compressed Natural Gas (CNG)

Approximately 20% of our fleet operates on natural gas. We expect to continue our gradual fleet conversion to CNG as part of our ordinary annual fleet replacement process. We believe a gradual fleet conversion is the most prudent approach to realizing the full value of our previous fleet investments. Approximately 13% of our replacement vehicle purchases during 2019 were CNG vehicles. We believe using CNG vehicles provides us a competitive advantage in communities with strict clean emission initiatives that focus on protecting the environment. Although upfront capital costs are higher, using CNG reduces our overall fleet operating costs through lower fuel expenses. As of December 31, 2019, we operated 39 CNG fueling stations.

We are also monitoring and influencing a number of alternative fuel technologies, such as electrification, to improve the total cost of ownership of our fleet and reduce our environmental impact through lower fleet emissions.

Standardized Maintenance

Based on an industry trade publication, we operate the eighth largest vocational fleet in the United States. As of December 31, 2019, our average fleet age in years, by line of business, was as follows:

	Approximate Number of Vehicles	Approximate Average Age
Residential	6,900	7.4
Small-container	4,700	6.8
Large-container	4,400	8.6
Total	16,000	7.6

OneFleet, our standardized vehicle maintenance program, enables us to use best practices for fleet management, truck care and maintenance. Through standardization of core functions, we believe we can minimize variability in our maintenance processes, resulting in higher vehicle quality and a lower environmental footprint, while extending the average service life of our fleet. We believe operating a more reliable, greener, safer and more efficient fleet will lower our operating costs. Additionally, our focus on preventative maintenance is improving the reliability of our fleet and enabling us to provide superior service to our customers, differentiating us from our competition. The entire fleet was certified under OneFleet by the second quarter of 2017.

People and Talent Agenda

The goal of our people and talent agenda pillar is to create an environment to attract and retain the best talent. Our people continue to be the most critical component in successfully executing our strategy. We strive to make Republic a desirable place to work for our approximately 36,000 full-time employees by creating learning experiences and programs that develop, train, engage and motivate, as well as compensation and benefits that attract and retain the best workforce. With a focus on safety, employee engagement, learning and talent development, and inclusion and diversity, we aspire to be a company where the best people want to work and are engaged every day.

Safety

Republic is dedicated to the safety of our employees, customers and the communities we serve. We have a dedicated team of safety professionals at our corporate headquarters and in our field operations, the leader of which reports directly to our Chief Operating Officer. Due to the nature of our industry, we prioritize safety above all else and we recognize and reward employees for outstanding safety records. Over the past 10 years, our safety performance (based on OSHA recordable rates) has been 39% better than the industry average. Our *Think, Choose, Live* slogan encapsulates our everyday safety messaging to our employees to: *Think* about what you are doing, *Choose* the safe answer, and *Live* to go home to your family. With the phrase printed on numerous items, including hard hats and the equipment our employees touch, there are constant reminders for employees to go home in the same condition in which they came to work. Our goal is to ensure every one of our employees returns home safely each night.

Through our Safety Amplified program, we are providing even more tools and driving even greater awareness to help our teams better execute our safety standards. Continual training, multifaceted programs and strategic partnerships are key components of our platform. It's simple by design and comprised of actions and activities that ensure safety is embedded in all we do. The program includes six initiatives to help us achieve our goal to have zero employee fatalities and reduce our OSHA Total Recordable Incident Rate.

- Focus Together: This is our core safety program created for our frontline employees and designed to help eliminate six types of serious incidents. We recently extended the scope and reach of the program to include all employees across the company.
- Lead Together: This focus area brings best-in-class communication channels to our employees and includes advanced training techniques for all supervisors and managers.

- Partner Together: We're initiating more frequent and higher quality leadership visits and interaction with frontline employees. These visits are designed to pull together leaders from a variety of departments to support the divisions' safety goals.
- Celebrate Together: We take pride in recognizing employees who demonstrate a relentless commitment to safety. Employees with the best driving records are eligible for the industry's most prestigious award, the National Waste & Recycling Association's Driver of the Year. Republic drivers have won 70% of the Driver of the Year awards issued for the large truck category since 2009. In addition, our best drivers are recognized and rewarded with competing in our National Road-EO competition.
- Analyze Together: We analyze real-time data to make short- and long-term decisions and identify opportunities for improvement. Examples include analysis of roadway awareness training, data mapping and other employee protection and preparedness insights. With these analytics we will be able to make proactive safety decisions to generate better results.
- Innovate Together: We leverage the latest technologies, including automation, and take a data-driven approach to support our employees. These innovations include rear cameras, in-cab backing alarm systems and event recording systems throughout our fleet. We're also working with equipment manufacturers to incorporate safety elements such as seat belt alarms, blind spot awareness, lane departure alarms and other potentially lifesaving equipment in our fleet.

We believe our Safety Amplified program will deliver additional positive impacts for our Company and stakeholders including:

1. Further strengthen relationships within the communities we service
2. Enhance customer trust
3. Streamline operational processes and increase productivity
4. Deliver a reputational advantage, including positioning our Company as an employer-of-choice
5. Build and sustain a safety culture in all areas of our business
6. Contribute to employee engagement

Employee Engagement

We believe an engaged and diverse workforce is the greatest indicator of our success. We have found that business units with a highly engaged workforce experience approximately 59% less turnover. Additionally, we know that engaged employees deliver better customer service and are more productive and safe drivers. We measure employee engagement annually through a third party survey and compensate our General Managers on their employee engagement scores. We improved our employee engagement score from 85% in 2018 to 86% in 2019 and continued to outperform industry benchmarks.

Learning and Talent Development

We are committed to developing our employees throughout their careers. Targeted onboarding experiences, including our Driver Training Center, Sales Acceleration, General Manager and Operations Onboarding programs, focus on providing the fundamental skills each employee needs to succeed in his or her role. Our Leadership Trainee program, an 18-month rotational experience for recent college graduates, is another example of our commitment to providing opportunities for growth.

Developing our leaders is also a critical part of our people and talent agenda. From our Leadership Fundamentals program, a program for all leaders of people, to our Leadership Trainee and General Manager Acceleration programs for early career leaders, we have developed programs and experiences to help ensure that as our leaders progress, they are accumulating the skills necessary to be successful at each level.

Our Leadership Fundamentals program was awarded the 2018 Brandon Hall Group Excellence award for best advance in leadership development. Our Leadership Trainee program has enabled us to place new leaders in key positions in the field and at our Phoenix headquarters. The General Manager Acceleration program is designed to enable its participants to become the next generation of General Managers with a deep knowledge of the business and the skills necessary to build and lead successful teams. Ongoing support for leaders is provided by way of a bi-weekly leadership video-cast that reinforces the concepts from our leadership trainings, challenges employees to continue to apply the key learnings, and offers ongoing tools for addressing the more seasonal aspects of leading throughout the year. Over the last five years, more than 5,200 leaders have completed our Leadership Fundamentals program, creating a common language and toolkit for how we coach and develop employees.

Our leadership programs are the driving force behind our talent engine and are critical to our business strategy. We are developing leaders that are strategically minded and foster an inclusive culture.

Inclusion and Diversity

We strive to create an inclusive and diverse culture where all employees can thrive and feel welcomed and valued. Our Mission of Supporting an Inclusive Culture (M.O.S.A.I.C.) is driven by our office of inclusion and diversity and supported by the M.O.S.A.I.C. Council. Our approach enables us to continue to develop new strategies and activities to create a more inclusive work environment and diverse workforce. Through these efforts, we can leverage our best thinking to improve our culture and better serve our customers. In 2017, the M.O.S.A.I.C. Council launched the Women of Republic business resource group, which was developed to provide a platform to empower members and enrich a diverse culture that values, develops and advances women in leadership. Advancing women in leadership roles will provide greater diversity of thought and perspective which has been proven to drive better decision making.

In 2019, we launched our Veterans, Advocacy, Learning, Outreach and Recruiting (V.A.L.O.R.) business resource group, which is focused on creating an inclusive culture that attracts, retains, develops and values veterans and their families throughout the organization and in our communities. We believe there is no better way to protect our planet than to recruit and hire the heroes who have protected our country. We actively recruit and hire veterans - those transitioning from military life as well as those long discharged from active duty. We value the skills, experience and operational excellence they bring to our organization, as well as their commitment to a better tomorrow. Historically, we have had great success hiring veterans. In 2019, approximately 2,500 veterans served in a variety of roles, ranging from drivers to senior leaders.

In 2020 and beyond, we expect to launch additional business resource groups.

Customer Zeal

The goal of our customer zeal pillar is to drive customer loyalty by offering differentiated products and services specifically designed to meet our customers' needs. We believe this increases customer loyalty and willingness to pay for a higher value service.

To help our sales team identify specific customer needs and configure the right offering, we use a Priority Based Selling (PBS) technique and our Capture pricing tool nationwide.

- PBS enables us to identify and segment customers' buying priorities, and attract customers that are willing to pay for enhanced offerings.
- Capture is a cloud-based pricing tool that creates a more professional sales experience, helps realize better pricing levels at the point of sale and provides enhanced controls over the price quoting process.

In response to our customers' requests, we expanded our suite of products to include electronics recycling with BlueGuard®, universal recycling and All-in-One Office®. For those services that we don't provide, we fulfill demand through our alliance partnerships while maintaining the customer facing relationship.

To help ensure a consistent customer experience, we invested in our customer service capabilities and consolidated over 100 customer service locations into three Customer Resource Centers. These state-of-the-art facilities and the technology deployed provide our customer service employees with the tools and capabilities they need to provide better levels of service though a variety of communication channels. The state-of-the-art centers enhance the customer experience and provide us a platform to reduce the cost to service our customers.

To help ensure our efforts are making an impact and building customer loyalty, we solicit feedback from our customers, including net promoter score, so that every General Manager receives recent, relevant feedback that allows him or her the ability to reach out to customers directly and address issues immediately.

Digital Platform

The goal of our digital platform pillar is to allow us to provide a consistent experience across our business while enabling our customers to do business with us through more channels and with better access to information.

We are responding to our customers' requests for options to do business with us digitally. By increasing the ease of use and functionality of our web-based market presence, we believe we enhance customer satisfaction, interaction, and connectivity while lowering our costs. These tools reinforce to our customers that they can rely on us to handle their recycling and waste service needs in a way that is easy and convenient for them.

- Our website and mobile app are online account management tools, allowing customers access to their accounts and our services.
- Our e-commerce sales channel allows customers to secure services on a real-time basis, provides capabilities to meet our customer's evolving buying preferences, and provides a lower cost sales channel.

We are also leveraging technology to digitally connect our customers, drivers, dispatchers, supervisors and trucks via our "RISE" dispatch platform and in-cab technology. We are utilizing an agile iterative approach to the development and multi-year roll-out of this technology to ensure durable adoption and an appropriate return on our investment. With the roll-out of this technology we will improve productivity through more real-time routing information and data visualization tools; increase customer connectivity and enable automated service verification communications; and enhance the employee experience by providing better tools and technology designed around how our employees will interact with it.

Corporate Responsibility and Sustainability

At Republic, we believe in the preservation of our Blue Planet® - to support a cleaner, safer and healthier world. We're passionate about our role as responsible stewards of our nation's waste. In 2014, we identified five sustainability elements that remain deeply engrained within our business: Safety, People, Operations, Materials Management and Communities. These elements continue to guide our short- and long-term sustainability and business goals.

It was at this time that we also launched our sustainability platform and original sustainability goals. We achieved the three time-bound sustainability goals set in 2014, which included developing two landfill gas-to-energy projects per year by 2018; adding an additional 150,000 tons or more per year of recycling capability by 2018; and reducing absolute fleet emissions by 3% from our direct operational impacts by 2018.

As we grow, so does our opportunity to make a meaningful positive impact on the environment and society. Over the past year the Company undertook a comprehensive approach to the development of additional sustainability goals that build on these past achievements. This included an analysis of global trends, identification of our business model dependencies and engagement with key stakeholders.

In 2019 we unveiled additional, long-term goals that are ambitious by design and address critical global macro-trends as well as our greatest opportunities to create value at scale. Each of them is aligned with one of the Company's five sustainability elements, and together they are designed to significantly benefit the environment and society while enhancing the foundation and profitability of our business for the long-term.

Our Blue Planet: 2030 Goals

- *Safety Amplified:* Zero annual employee fatalities and reduce OSHA Total Recordable Incident Rate (TRIR) to 2.0 or less by 2030
- *Engaged Workforce:* Achieve and maintain employee engagement scores at or above 88 percent by 2030
- *Climate Leadership:* Reduce absolute Scope 1 and 2 greenhouse gas emissions 35 percent by 2030[(1)], aligned with SBTi[(1)]
- *Circular Economy:* Increase recovery of key materials by 40 percent on a combined basis by 2030[(1)]
- *Regenerative Landfills:* Increase biogas sent to beneficial reuse by 50 percent by 2030[(1)]
- *Charitable Giving:* Positively impact 20 million people by 2030

Republic is the first U.S. recycling and solid waste services provider to have its emissions reduction target approved by the Science Based Targets Initiative[(2)]. We also aligned our new sustainability goals with the United Nations General Assembly's Sustainable Development Goals. These include the following United Nations initiatives: (8) Growth, (11) Sustainable Cities and Communities, (12) Responsible Consumption and Production and (13) Climate Action.

In addition to setting new goals in 2019, we increased our level of sustainability disclosure and transparency.

Our Board of Directors' Sustainability and Corporate Responsibility Committee was created in 2015. This committee has oversight responsibility with respect to our sustainability performance, our corporate responsibilities, our role as a socially responsible organization and our enterprise risks, including cyber security, environmental and climate related risks and opportunities, and reputational risks. The entire Board conducts a formal comprehensive review of the Company's performance in these areas on an annual basis.

(1) Data points used 2017 as the baseline year.

(2) SBTi, or Science Based Targets initiative, is a collaboration between CDP, the United Nations Global Compact (UNGC), World Resources Institute (WRI) and the World Wide Fund for Nature (WWF).

Cash Utilization Strategy

We take a consistent and balanced approach to capital allocation to drive long-term, sustainable value for our shareholders. The predictability of our free cash flows allows us to efficiently execute our capital allocation strategy, which includes investing in acquisitions and returning a majority of free cash flow to our shareholders through dividends and share repurchases. We are committed to an efficient capital structure and maintaining our investment grade credit ratings on our senior debt, which was rated BBB+ by Standard & Poor's Ratings Services, BBB by Fitch Ratings, Inc. and Baa2 by Moody's Investors Service, Inc. as of December 31, 2019. Such ratings have allowed us, and should continue to allow us, to readily access capital markets at competitive rates.

We manage our free cash flow by ensuring that capital expenditures and operating asset levels are appropriate in light of our existing business and growth opportunities, and by closely managing our working capital, which consists primarily of accounts receivable, accounts payable, and accrued landfill and environmental costs.

Dividends

In July 2019, our Board of Directors approved an increase in the quarterly dividend to $0.405 per share, which represents an increase of approximately 8% over the prior year. Over the last five years, our dividends have increased at a compounded annual growth rate of 7.7%. We expect to continue paying quarterly cash dividends and may consider additional dividend increases if we believe they will enhance shareholder value.

Share Repurchases

In October 2017, our Board of Directors added $2.0 billion to the existing share repurchase authorization that now extends through December 31, 2020. As of December 31, 2019, there was $0.7 billion remaining under our share repurchase authorization. On a quarterly basis, our Board of Directors reviews the intrinsic value of our stock and the parameters around which we repurchase our shares.

Shareholder Value

We are committed to creating long-term shareholder value by generating consistent earnings and cash flow growth, while continually improving returns on invested capital. Our incentive compensation programs are aligned with these objectives at all levels of management. We have an active shareholder outreach program and routinely interact with shareholders on a number of matters, including governance, executive compensation, environmental and social matters.

Management Team

We believe that building and blending a diverse team of strong industry veterans, along with talented people from other industries who bring unique skill sets, will contribute to what we call our Composite Strength. Composite Strength combines the vast, varied experience and capability of both strong waste-industry veterans and talented people from other industries. Additionally, Composite Strength helps ensure the continuity of leadership and preservation of institutional knowledge, while also bringing in skills and new ideas from other companies outside of our industry - many of them from blue chip companies.

Donald W. Slager serves as the Company's Chief Executive Officer, a position he has held since January 2011. He previously held the role of President and Chief Executive Officer from January 2011 to May 2019, and served as the Company's President and Chief Operating Officer from the Allied Waste Industries, Inc. (Allied) acquisition in December 2008 until January 2011. Prior to the Allied acquisition, Mr. Slager worked for Allied from 1992 through 2008 and served in various management positions, including President and Chief Operating Officer from 2004 through 2008, and Executive Vice President and Chief Operating Officer from 2003 to 2004. From 2001 to 2003, Mr. Slager served as Senior Vice President, Operations. Mr. Slager held various management positions at Allied from 1992 to 2003, and was previously General Manager at National Waste Services, where he served in various management positions since 1985. Mr. Slager has over 35 years of experience in the solid waste industry. Mr. Slager has been a member of our Board of Directors since June 24, 2010.

Brian Bales was named Executive Vice President, Chief Development Officer in February 2015. Mr. Bales has been with Republic for over 20 years, serving as Executive Vice President, Business Development from December 2008 to February 2015, and Vice President, Corporate Development from 1998 until the Allied acquisition in December 2008. Prior to his time at Republic, Mr. Bales held roles of increasing responsibility in finance and business development for Ryder System, Inc. from 1993 to 1998, and served as chief financial officer for EDIFEX & VTA Communications from 1988 through 1993. Prior to that, Mr. Bales was an accountant for PwC (formerly Price Waterhouse) from 1986 to 1988.

Catharine D. Ellingsen was named Executive Vice President, Chief Legal Officer, Chief Ethics and Compliance Officer, and Corporate Secretary in June 2016. Ms. Ellingsen joined Allied as Corporate Counsel in August 2001 and has experience in a variety of roles of increasing responsibility. She was named Managing Corporate Counsel in January 2003, Director, Legal and Associate General Counsel in January 2005, and Vice President and Deputy General Counsel in June 2007. Ms. Ellingsen continued as Vice President and Deputy General Counsel at Republic following the Allied acquisition in December 2008. She was then named Senior Vice President, Human Resources in August 2011 and served in that position until June 2016. Before joining Allied, Ms. Ellingsen was an attorney at Steptoe & Johnson LLP from 1996 to 2001 and at Bryan Cave LLP from 1993 to 1996.

Jeffrey A. Hughes was named Executive Vice President, Chief Administrative Officer in December 2008. Before that, Mr. Hughes served as Senior Vice President, Eastern Region Operations for Allied from 2004 until the Allied acquisition in December 2008. Mr. Hughes served as Assistant Vice President of Operations Support for Allied from 1999 to 2004 and as a District Manager for Allied from 1988 to 1999. Mr. Hughes has over 29 years of experience in the solid waste industry.

Charles F. Serianni was appointed Executive Vice President, Chief Financial Officer in August 2014. Mr. Serianni has over 30 years of experience in a variety of roles of increasing responsibility. He was named Vice President, Region Controller for our former West Region in July 2013. Before that, Mr. Serianni served as our Assistant Controller starting in June 1998 and progressed to Senior Vice President, Chief Accounting Officer in December 2008. He served as the Accounting Operations Director for Republic Industries, Inc. (AutoNation) from February 1997 to June 1998. Before that, Mr. Serianni served as the Accounting Operations Director for Sunglass Hut International, Inc. from May 1993 to February 1997, and as Manager, Accounting and Auditing Services for Deloitte & Touche from September 1984 to May 1993.

Jon Vander Ark was named President in May 2019, and is responsible for overseeing the Company's operations, sales, marketing and business development. Mr. Vander Ark served as the Company's Executive Vice President, Chief Operating Officer from January 2018 to May 2019. Prior to that, Mr. Vander Ark served as the Company's Executive Vice President, Operations from March 2016 to January 2018. Mr. Vander Ark joined the Company in January 2013 as Executive Vice President, Chief Marketing Officer. Prior to joining the Company, he served as a partner at McKinsey & Company's Detroit office, managing clients across a variety of industries, including transportation, logistics, manufacturing and consumer products.

Tim Stuart was named Executive Vice President, Chief Operating Officer in May 2019. Prior to his current role, Mr. Stuart served as Executive Vice President, Operations from January 2016 to May 2019, where he was responsible for maximizing field performance, executing the operating plan, and achieving financial and operational results across the Company. Mr. Stuart previously served as the Company's East Region President from September 2013 to January 2016. He joined Republic in April 2006 as Director of Operations, and has held a variety of roles with the Company, including Area President, Vice President of Customer Experience, and Region Vice President. Mr. Stuart has over 20 years of experience in the waste industry.

Our local and area management teams have extensive industry experience in growing, operating and managing solid waste and recycling companies and have substantial experience in their local geographic markets. This allows us to quickly respond to and meet our customers' needs and stay in touch with local businesses and municipalities. We believe our strong area management teams allow us to effectively and efficiently drive our initiatives and help ensure consistency throughout the organization. Our area management teams and area presidents have extensive authority and responsibility over operations within their respective geographic markets. As a result of retaining experienced managers with extensive knowledge of and involvement in their local communities, we are proactive in anticipating customers' needs and adjusting to changes in our markets. We also seek to implement the best practices of our various business units throughout our operations to continue improving our operations and our operating margins.

Integrated Operations

We have a strong, national, vertically-integrated operating platform that allows us to compete more effectively and efficiently in the local markets in which we operate. Where appropriate, we seek to achieve a high rate of internalization by controlling waste streams from the point of collection through recycling processing or disposal. During the year ended December 31, 2019, approximately 68% of the total waste volume we collected was disposed at landfills we own or operate (internalization). Our fully integrated markets generally have a lower cost of operations and more favorable cash flows than our markets that are not fully integrated. Through acquisitions, landfill operating agreements and other market development activities, we create market-specific, vertically-integrated operations typically consisting of one or more collection operations, transfer stations and landfills. We also operate recycling processing centers in markets where diversion of waste is a priority, customers are willing to pay for the service, and we can earn an appropriate return on our investment.

Our operations primarily consist of providing collection, transfer and disposal of non-hazardous solid waste, recovering and recycling of certain materials, and environmental services.

Collection Services

We provide residential, small-container, and large-container solid waste collection services through 340 collection operations. In 2019, approximately 75% of our total revenue was derived from our collection business, of which approximately 22% of our total revenue related to residential services, approximately 31% related to small-container services, and approximately 22% related to large-container services.

Our residential collection business involves the curbside collection of waste for transport to transfer stations, or directly to landfills or recycling processing centers. We typically perform residential solid waste collection services under contracts with municipalities, which we generally secure through competitive bids, which give us exclusive rights to service all or a portion of the homes in the municipalities. These contracts usually range in duration from one to five years, although some of our exclusive franchises are for significantly longer periods. We also perform residential services on a subscription basis, in which individual households contract directly with us. The fees received for subscription residential collection are based primarily on the market, collection frequency, type of service, the distance to the disposal facility and the cost of disposal. In general, subscription residential collection fees are paid quarterly in advance by the customers receiving the service.

In our small-container business, we supply our customers with waste and recycling containers of varying sizes. We typically perform small-container collection services under one- to three-year service agreements, and fees are determined based on a number of factors including the market, collection frequency, type of equipment furnished, type and volume or weight of the waste collected, transportation costs and the cost of processing or disposal. Our small-container services are typically offered to small business complexes, multi-family housing and strip malls, and include industries such as restaurants, retail, real-estate, and professional and other services.

Our large-container collection business includes both recurring and temporary customer relationships. For the recurring portion, we supply our customers with waste and recycling containers of varying sizes and rent compactors to large waste generators. We typically perform the collection services under one- to three-year service agreements, and fees are determined based on a number of factors including the market, collection frequency, type of equipment furnished, type and volume or weight of the waste collected, transportation costs and the cost of disposal. Our recurring large-container services are typically offered to larger facilities, hotels and office buildings, and include industries such as manufacturing, retail, hospitality, professional and other services.

For the temporary portion of our large-container collection business, the majority of the waste relates to construction and demolition activities and is typically event-driven. We provide temporary waste collection services on a contractual basis with terms ranging from a single pickup to one-year or longer.

Transfer Services

We own or operate 212 transfer stations. Revenue at our transfer stations is primarily generated by charging tipping or disposal fees, which accounted for approximately 6% of our revenue during 2019. Our collection operations deposit waste at these transfer stations, as do other private and municipal haulers, for compaction and transfer to disposal sites or recycling processing centers. Transfer stations provide collection operations with a cost effective means to consolidate waste and reduce transportation costs while providing our landfills with an additional gate to extend their geographic reach.

When our own collection operations use our transfer stations, this improves internalization by allowing us to retain fees we would otherwise pay to third-party disposal sites. It also allows us to manage costs associated with waste disposal because: (1) transfer trucks have larger capacities than collection trucks, allowing us to deliver more waste to the landfill or processing center in each trip; (2) waste is accumulated and compacted at strategically located transfer stations to increase efficiency; and (3) we can retain volume by managing the waste to one of our own landfills or processing centers rather than to a competitor’s.

Landfill Services

We own or operate 189 active landfills. Our tipping fees charged to third parties accounted for approximately 13% of our revenue during 2019. As of December 31, 2019, we had 38,494 permitted acres and total available permitted and probable expansion disposal capacity of approximately 5 billion in-place cubic yards. The in-place capacity of our landfills is subject to change based on engineering factors, requirements of regulatory authorities, our ability to continue to operate our landfills in compliance with applicable regulations, and our ability to successfully renew operating permits and obtain expansion permits at our sites. Some of our landfills accept non-hazardous special waste, including utility ash, asbestos and contaminated soils.

Most of our active landfill sites have the potential for expanded disposal capacity beyond the currently permitted acreage. We monitor the availability of permitted disposal capacity at each of our landfills and evaluate whether to pursue an expansion at a given landfill based on estimated future waste volumes and prices, market needs, remaining capacity and the likelihood of obtaining an expansion. To satisfy future disposal demand, we are seeking to expand permitted capacity at certain landfills; however, we cannot assure you that all proposed or future expansions will be permitted.

Republic is committed to harnessing landfill gas, the natural byproduct of decomposing waste, and converting it to energy. The use of landfill gas provides economic and environmental benefits, including reducing air pollution through the capture and use of methane. As of December 31, 2019, we operated 75 landfill gas and renewable energy projects. The majority of these projects were developed and are owned by a third party.

We also have responsibility for 130 closed landfills, for which we have associated closure and post-closure obligations.

Recycling Services

We own or operate 79 recycling processing centers. These facilities generate revenue through the processing and sale of old corrugated containers (OCC), old newsprint (ONP), aluminum, glass and other materials, which accounted for approximately 3% of our revenue during 2019. Approximately 79% of our total recycling processing center volume is fiber based and includes OCC, ONP and other mixed paper. During 2019, we processed and sold 2.2 million tons, excluding glass and organics, from our recycling processing centers. An additional 2.2 million tons were collected by us and delivered to third parties.

Changing market demand for recycled commodities causes volatility in commodity prices. At current volumes and mix of materials, we believe a $10 per ton change in the price of recycled commodities would change annual revenue and operating income by approximately $13 million and $13 million, respectively.

In certain instances, we issue recycling rebates to our municipal or large-container customers, which can be based on the price we receive upon the final sale of recycled commodities, a fixed contractual rate or other measures. We also receive rebates when we dispose of recycled commodities at third-party processing facilities.

As consumer demand for recycling services has increased, we have met that demand by integrating recycling components to each of our collection service offerings. Our goal is to provide a complete waste stream management solution to our customers in a vertically integrated, environmentally sustainable way.

We continue to invest in proven technologies to control costs and to simplify and streamline recycling for our customers. For example, robotics and advanced sorting equipment, such as disk screens, magnets and optical sorters, identifies and separates different kinds of paper, metals, plastics and other materials to increase efficiency and maximize our recycling efforts.

Environmental Services

In addition to certain of our landfill disposal sites, we own or operate 7 treatment, recovery and disposal facilities, 15 salt water disposal wells and 4 deep injection wells. Environmental services waste is generated from the by-products of oil and natural gas exploration and production activity. Additionally, it is generated by the daily operations of industrial, petrochemical and refining facilities, including maintenance, plant turnarounds and capital projects. We provide these customers with environmentally responsible solutions to manage their waste needs including disposal of non-hazardous solid and liquid waste and in-plant services, such as transportation and logistics. In 2019, approximately 2% of our revenue was derived from environmental services.

Other Services

Other revenue consists primarily of National Accounts revenue generated from nationwide or regional contracts in markets outside our operating areas where the associated waste handling services are subcontracted to local operators. Consequently, substantially all of this revenue is offset with related subcontract costs, which are recorded in cost of operations.

Competition

We operate in a competitive industry. Competition in the non-hazardous solid waste industry comes from a few other large, national publicly-owned companies, several regional publicly- and privately-owned companies, and thousands of small privately-owned companies. In any given market, competitors may have larger operations and greater resources. In addition, we compete with municipalities that maintain waste collection or disposal operations. These municipalities may have financial advantages due to the availability of tax revenue and greater opportunities for tax-exempt financing.

We compete for collection accounts primarily based on our product offering, quality of service and price. From time-to-time, our competitors reduce the price of their services in an effort to expand market share or to win a competitively bid municipal contract. Our ability to maintain and increase prices in certain markets may be impacted by our competitors' pricing policies. This may have an effect on our future revenue and profitability.

Seasonality and Severe Weather

Our operating revenues tend to be somewhat higher in the summer months, primarily due to higher volumes of construction and demolition waste. The volumes of large-container and residential waste in certain regions of the country also tend to increase during the summer months. Our second and third quarter revenues and results of operations typically reflect this seasonality.

Our operations can be adversely affected by periods of inclement or severe weather, which could increase the volume of waste collected under our existing contracts (without corresponding compensation), delay the collection and disposal of waste, reduce the volume of waste delivered to our disposal sites or delay the construction or expansion of our landfill sites and other facilities. Our operations also can be favorably affected by severe weather, which could increase the volume of waste in situations where we are able to charge for our additional services.

Regulation

Our facilities and operations are subject to a variety of federal, state and local requirements that regulate, among other things, the environment, public health, safety, zoning and land use. Operating and other permits, licenses and other approvals generally are required for landfills and transfer stations, recycling facilities, certain solid waste collection vehicles, fuel storage tanks and other equipment and facilities that we own or operate. These permits are subject to denial, revocation, modification and renewal in certain circumstances. Federal, state and local laws and regulations vary, but generally govern wastewater or storm water discharges, air emissions, the handling, transportation, treatment, storage and disposal of hazardous and non-hazardous waste, and the remediation of contamination associated with the release or threatened release of hazardous substances. These laws and regulations provide governmental authorities with strict powers of enforcement, which include the ability to revoke or decline to renew any of our operating permits, obtain injunctions, or impose fines or penalties in the event of violations, including criminal penalties. The U.S. EPA and various other federal, state and local authorities administer these regulations.

We strive to conduct our operations in compliance with applicable laws, regulations and permits. However, from time to time we have been issued citations or notices from governmental authorities that have resulted in the need to expend funds for remedial work and related activities at various landfills and other facilities or in the need to expend funds for fines, penalties or settlements. We cannot assure you that citations and notices will not be issued in the future despite our strong regulatory compliance efforts. We have established final capping, closure, post-closure and remediation reserves that we believe, based on currently available information, will be adequate to cover our current estimates of regulatory costs; however, we cannot assure you that actual costs will not exceed our reserves.

Federal Regulation

The following summarizes the primary federal, environmental, and occupational health and safety-related statutes that affect our facilities and operations:

- *The Solid Waste Disposal Act, including the Resource Conservation and Recovery Act* (RCRA). RCRA establishes a framework for regulating the handling, transportation, treatment, storage and disposal of hazardous and non-hazardous solid waste, and requires states to develop programs to ensure the safe disposal of solid waste in sanitary landfills.

  Subtitle D of RCRA establishes a framework for regulating the disposal of municipal solid waste. Regulations under Subtitle D currently include minimum comprehensive solid waste management criteria and guidelines, including location restrictions, facility design and operating criteria, final capping, closure and post-closure requirements, financial assurance standards, groundwater monitoring requirements and corrective action standards. All of the states in which we operate have implemented permit programs pursuant to RCRA and Subtitle D. These state permit programs may include landfill requirements that are more stringent than those of Subtitle D. Our failure to comply with any of these environmental requirements at any of our locations may lead to temporary or permanent loss of an operating permit, which would result in costs in connection with securing new permits, reduced revenue from lost operational time, and increased third party disposal costs.

  All of our planned landfill expansions and new landfill development projects have been engineered to meet or exceed Subtitle D requirements, as applicable. Operating and design criteria for existing operations have been modified to comply with these regulations. Compliance with Subtitle D regulations has resulted in increased costs and may in the future require substantial additional expenditures in addition to other costs normally associated with our waste management activities.

- *The Comprehensive Environmental Response, Compensation and Liability Act of 1980* (CERCLA). CERCLA, among other things, provides for the cleanup of sites from which there is a release or threatened release of a hazardous substance into the environment. CERCLA may impose strict joint and several liability for the costs of cleanup and for damages to natural resources upon current owners and operators of a site, parties who were owners or operators of a site at the time the hazardous substances were disposed of, parties who transported the hazardous substances to a site,

and parties who arranged for the disposal of the hazardous substances at a site. Under the authority of CERCLA and its implementing regulations, detailed requirements apply to the manner and degree of investigation and remediation of facilities and sites where hazardous substances have been or are threatened to be released into the environment. Liability under CERCLA is not dependent on the existence or disposal of only hazardous wastes, but also can be based upon the existence of small quantities of more than 700 substances characterized by the EPA as hazardous, many of which are found in common household waste. Among other things, CERCLA authorizes the federal government to investigate and remediate sites at which hazardous substances have been or are threatened to be released into the environment, or to order persons potentially liable for the cleanup of the hazardous substances to do so themselves. In addition, the EPA has established a National Priorities List of sites at which hazardous substances have been, or are threatened to be, released and which require investigation or cleanup.

CERCLA liability is strict liability. It can be founded upon the release or threatened release, even as a result of unintentional, non-negligent or lawful action, of hazardous substances, including very small quantities of such substances. Thus, even if we have never knowingly transported or received hazardous substances, it is possible that hazardous substances have been deposited or released at landfills or other facilities that we presently or historically have owned or operated, or at properties owned by third parties to which we have transported waste. Therefore, we could be liable under CERCLA for the cost of cleaning up, or protecting against the release of, such hazardous substances at such sites and for damages to natural resources, even if those substances were deposited at our facilities before we acquired or operated them. The costs of a CERCLA cleanup can be very expensive and can include the costs of disposing of hazardous substances at appropriately-licensed facilities. Given the difficulty of obtaining insurance for environmental impairment liability, any such liability could have a material effect on our business, financial condition, results of operations and cash flows.

- *The Federal Water Pollution Control Act of 1972* (the Clean Water Act). This act regulates the discharge of pollutants from a variety of sources, including solid waste disposal sites, into streams, rivers and other waters of the United States. Runoff from our landfills and transfer stations that is discharged into surface waters through discrete conveyances must be covered by discharge permits that generally require us to conduct sampling and monitoring, and, under certain circumstances, to reduce the quantity of pollutants in those discharges. Storm water discharge regulations under the Clean Water Act require a permit for certain construction activities and for runoff from industrial operations and facilities, which may affect our operations. If a landfill or transfer station discharges wastewater through a sewage system to a publicly-owned treatment works, the facility must comply with discharge limits imposed by that treatment works. In addition, states may adopt groundwater protection programs under the Clean Water Act or the Safe Drinking Water Act that could affect the manner in which our landfills monitor and control their waste management activities. Furthermore, if development at any of our facilities alters or affects wetlands, we may be required to secure permits before such development starts. In these situations, permitting agencies may require mitigation of wetland impacts.

- *The Clean Air Act.* The Clean Air Act imposes limitations on emissions from various sources, including landfills. In March 1996, the EPA promulgated regulations that require large municipal solid waste landfills to install landfill gas monitoring systems along with landfill gas control systems unless emissions are below established thresholds. These regulations apply to landfills that commenced construction, reconstruction or modification on or after May 30, 1991, and, principally, to landfills that can accommodate 2.5 million cubic meters or more of municipal solid waste. The regulations apply whether the landfills are active or closed. The date by which each affected landfill must have a gas collection and control system installed and made operational varies depending on calculated emission rates at the landfill. On July 14, 2016, the EPA issued final amendments to its regulations that require large landfills that commenced construction, reconstruction, or modification on or after July 17, 2014 to capture additional landfill gas to reduce emissions of methane and certain non-methane gases, which are recognized as greenhouse gases. In a separate rule finalized that same day, the EPA issued updates to its 1996 Emission Guidelines to reduce emissions of landfill gas from existing active landfills. Both actions were part of the Obama Administration's Climate Action Plan - Strategy to Reduce Methane Emissions. These and other efforts to curtail the emission of greenhouse gases and to ameliorate the effect of climate change may require our landfills to deploy more stringent emission controls and monitoring systems, with resulting capital or operating costs. Many state regulatory agencies also currently require monitoring systems for the collection and control of certain landfill gas. Certain of these state agencies are also implementing greenhouse gas control regulations that would also apply to landfill gas emissions. See Item 1A, *Risk Factors – Regulation of greenhouse gas emissions could impose costs on our operations, the magnitude of which we cannot yet estimate*, in this Form 10-K.

  In addition, our vehicle fleet also may become subject to higher efficiency standards or other carbon-emission restrictions. Over the past several years, the EPA and the National Highway Traffic Safety Administration (NHTSA) have adopted regulations mandating the reduction of vehicle tail pipe emissions as a means of reducing greenhouse gas emissions. The regulations take the form of fuel economy standards. The EPA and the NHTSA have developed fuel

economy standards in two vehicle categories: (1) passenger automobiles and light-duty trucks (collectively, light-duty vehicles); and (2) heavy-duty trucks, including solid waste collection vehicles and tractor trailers. We own and operate vehicles in both categories. For light-duty vehicles, in May 2010 the EPA and the NHTSA finalized fuel economy standards for model years 2012 through 2016. In October 2011, the EPA and the NHTSA initiated a second round of rulemaking for light-duty vehicles for model years 2017 through 2025. In 2018, the EPA and the NHTSA proposed to revise the light-duty vehicle standards for model years 2021 through 2024 to make them less stringent; final action on the proposal is anticipated in 2020 but may be challenged in court. In August 2011, the EPA and the NHTSA finalized standards for heavy-duty trucks, including solid waste collection vehicles and tractor trailers, for model years 2014 through 2018. On August 16, 2016, the EPA and the NHTSA jointly issued additional regulations that would impose more stringent standards for heavy-duty vehicles through model-year 2027. In issuing the proposed fuel economy standards for heavy-duty trucks (including tractor trailers), the government estimated that the increased equipment cost would be recouped over a period of two years for a tractor/trailer combo, and over a period of 6 years for a garbage truck, and each vehicle would continue to save fuel costs over its operating life.

- *The Occupational Safety and Health Act of 1970* (OSHA). This act authorizes the Occupational Safety and Health Administration of the U.S. Department of Labor to promulgate occupational safety and health standards. A number of these standards, including standards for notices of hazardous chemicals and the handling of asbestos, apply to our facilities and operations.

State and Local Regulation

Each state in which we operate has its own laws and regulations governing solid waste disposal, water and air pollution, and, in most cases, releases and cleanup of hazardous substances and liabilities for such matters. States also have adopted regulations governing the design, operation, maintenance and closure of landfills and transfer stations. Some counties, municipalities and other local governments have adopted similar laws and regulations. In addition, our operations may be affected by the trend in many states toward requiring solid waste reduction and recycling programs. For example, several states have enacted laws that require counties or municipalities to adopt comprehensive plans to reduce, through solid waste planning, composting, recycling or other programs, the volume of solid waste deposited in landfills. Additionally, laws and regulations restricting the disposal of certain waste in solid waste landfills, including yard waste, food waste, newspapers, beverage containers, unshredded tires, lead-acid batteries, electronic wastes and household appliances, have been adopted in several states and are being considered in others. Legislative and regulatory measures to mandate or encourage waste reduction at the source and waste recycling also have been considered, or are under consideration by, the U.S. Congress and the EPA.

To construct, operate and expand a landfill, we must obtain one or more construction or operating permits, as well as zoning and land use approvals. These permits and approvals may be burdensome to obtain and to comply with, are often opposed by neighboring landowners and citizens' groups, may be subject to periodic renewal, and are subject to denial, modification, non-renewal and revocation by the issuing agency. Significant compliance disclosure obligations often accompany these processes. In connection with our acquisition of existing landfills, we may be required to spend considerable time, effort and money to bring the acquired facilities into compliance with applicable requirements and to obtain the permits and approvals necessary to increase their capacity.

Other Regulations

Many of our facilities own and operate underground storage tanks that are generally used to store petroleum-based products. These tanks can be subject to federal, state and local laws and regulations that mandate their periodic testing, upgrading, closure and removal. In the event of leaks or releases from these tanks, these regulations require that polluted groundwater and soils be remediated. If underground storage tanks we own or operate leak, we could be liable for response costs and, if the leakage migrates onto the property of others, we could be liable for damages to third parties. We are unaware of facts indicating that issues of compliance with regulations related to underground storage tanks will have a material adverse effect on our consolidated financial condition, results of operations or cash flows.

With regard to our solid waste transportation operations, we are subject to the jurisdiction of the Surface Transportation Board and are regulated by the Federal Highway Administration, Office of Motor Carriers, and by regulatory agencies in states that regulate such matters. Various state and local government authorities have adopted, or are considering adopting, laws and regulations that would restrict the transportation of solid waste across state, county, or other jurisdictional lines. In 1978, the U.S. Supreme Court ruled that a law that restricts the importation of out-of-state solid waste is unconstitutional; however, states have attempted to distinguish proposed laws from those involved in and implicated by that ruling. In 1994, the U.S. Supreme Court ruled that a flow control law, which attempted to restrict solid waste from leaving its place of generation, imposes an impermissible burden upon interstate commerce and is unconstitutional. In 2007, however, the U.S. Supreme Court upheld the right of a local government to direct the flow of solid waste to a publicly-owned and publicly-operated waste facility. A number of county and other local jurisdictions have enacted ordinances or other regulations restricting the free movement of solid waste

across jurisdictional boundaries. Other governments may enact similar regulations in the future. These regulations may cause a decline in volumes of waste delivered to our landfills or transfer stations and may increase our costs of disposal, thereby adversely affecting our operations and our financial results.

Liabilities Established for Landfill and Environmental Costs

We have established reserves for landfill and environmental costs, which include landfill site final capping, closure and post-closure costs. We periodically reassess such costs based on various methods and assumptions regarding landfill airspace and the technical requirements of Subtitle D of RCRA, and we adjust our amortization rates used to expense final capping, closure and post-closure costs accordingly. Based on current information and regulatory requirements, we believe that our recorded reserves for such landfill and environmental expenditures are adequate; however, environmental laws may change, and we cannot assure you that our recorded reserves will be adequate to cover requirements under existing or new environmental laws and regulations, future changes or interpretations of existing laws and regulations, or adverse environmental conditions previously unknown to us. Refer to the *Contractual Obligations* section of our Management's Discussion and Analysis of Financial Condition and Results of Operations contained in Item 7 of this Form 10-K and to Note 2, *Summary of Significant Accounting Policies*, to our consolidated financial statements in Item 8 of this Form 10-K for further information.

Liability Insurance and Bonding

The nature of our business exposes us to the possible risk of liabilities arising out of our operations, including damages to the environment, property, employees or the general public. We focus on operating safely and prudently, but occasionally we receive claims, alleging damages, negligence or other wrongdoing in the planning or performance of work, which resulted in harm to the environment, property, employees or the general public. These liabilities can be significant. We also could be subject to fines and civil and criminal penalties in connection with alleged violations of regulatory requirements. We maintain various policies of insurance that, subject to limitations, exclusions, or deductibles, provide coverage for these types of claims. While we believe the amount of insurance is appropriate for our type of business, we can neither assure you that such insurance would be adequate, in scope or amount, in the event of a major loss, nor that we will not be exposed to uninsured liabilities that could have a material adverse effect on our consolidated financial condition, results of operations or cash flows. We also cannot assure you that we would continue to maintain the insurance should market conditions in the insurance industry make such coverage cost prohibitive.

Accruals for deductibles are based on claims filed and actuarial estimates of claims development and claims incurred but not reported. Due to the variable condition of the insurance market, we have experienced, and may experience in the future, increased deductible retention levels and increased premiums or unavailability of insurance. As we assume more risk through higher retention levels, we may experience more variability in our insurance reserves and expense.

In the normal course of business, we also purchase surety bonds, insurance policies, letters of credit or marketable securities deposits in connection with municipal residential collection contracts, financial assurance for closure and post-closure of landfills, environmental remediation, environmental permits, and business licenses and permits as a financial guarantee of our performance.

Availability of Reports and Other Information

Our corporate website is republicservices.com. We make available on that website, free of charge, access to our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, Proxy Statements on Schedule 14A, and amendments to those materials filed or furnished with the Securities and Exchange Commission (SEC) pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934. We make such materials available as soon as reasonably practicable after we electronically submit them to the SEC. Our corporate website also contains our Certificate of Incorporation, Bylaws, Corporate Governance Guidelines, Code of Ethics, Political Contributions Policy, and Charters of the Audit Committee, Management Development and Compensation Committee, Nominating and Corporate Governance Committee, and Sustainability and Corporate Responsibility Committee of the Board of Directors. In addition, the SEC makes available at its website (sec.gov), free of charge, reports, proxy statements, and other information regarding issuers, such as us, that file electronically with the SEC. Information on our website or the SEC website is not part of this Form 10-K. We intend to satisfy the disclosure requirements under Item 5.05 of Form 8-K and applicable New York Stock Exchange (NYSE) rules regarding amendments to or waivers of our Code of Ethics by posting this information on our website at republicservices.com.

ITEM 1A. RISK FACTORS

Disclosure Regarding Forward-Looking Statements

This Annual Report on Form 10-K contains certain forward-looking information about us that is intended to be covered by the safe harbor for "forward-looking statements" provided by the Private Securities Litigation Reform Act of 1995. Forward-looking statements are statements that are not historical facts. Words such as "guidance," "expect," "will," "may," "anticipate," "plan," "estimate," "project," "intend," "should," "can," "likely," "could," "outlook" and similar expressions are intended to identify forward-looking statements. Among other sections of this Form 10-K, the Risk Factors and Management's Discussion and Analysis of Financial Condition and Results of Operations include forward-looking statements. These statements include statements about our plans, strategies and prospects. Forward-looking statements are not guarantees of performance. These statements are based upon the current beliefs and expectations of our management and are subject to risk and uncertainties that could cause actual results to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot assure you that the expectations will prove to be correct. Among the factors that could cause actual results to differ materially from the expectations expressed in the forward-looking statements are:

- general economic and market conditions, including inflation and changes in fuel, interest rates, labor, risk, health insurance and other variable costs that generally are not within our control, and our exposure to credit and counterparty risk;
- fluctuations in prices for recycled commodities that we sell to customers;
- whether our estimates and assumptions concerning our selected balance sheet accounts, income tax accounts, final capping, closure, post-closure and remediation costs, available airspace, projected costs and expenses related to our landfills and property and equipment, fair values of acquired assets and liabilities assumed in our acquisitions, and labor, fuel rates and economic and inflationary trends, turn out to be correct or appropriate;
- competition and demand for services in the solid waste and recycling industry;
- price increases to our customers, which may not be adequate to offset the impact of increased costs, including labor, third-party disposal and fuel, and may cause us to lose volume;
- our ability to manage growth and execute our growth strategy;
- our compliance with, and future changes in, environmental and flow control regulations and our ability to obtain approvals from regulatory agencies in connection with operating and expanding our landfills;
- the impact on us of our substantial indebtedness, including on our ability to obtain financing on acceptable terms to finance our operations and growth strategy and to operate within the limitations imposed by financing arrangements;
- our ability to retain our investment grade ratings for our debt;
- our dependence on key personnel;
- our dependence on large, long-term collection, transfer and disposal contracts;
- the capital intensive nature of our business, which may consume cash in excess of cash flow from operations;
- exposure to environmental liabilities or remediation requirements, to the extent not adequately covered by insurance, which could result in substantial expenses;
- risks associated with undisclosed liabilities of acquired businesses;
- risks associated with pending and future legal proceedings, including litigation, audits or investigations brought by or before any governmental body;
- severe weather conditions, including those brought about by climate change, which could impair our financial results by causing increased costs, loss of revenue, reduced operational efficiency or disruptions to our operations;
- compliance with existing and future legal and regulatory requirements, including changes relating to per- and polyfluoroalkyl substances (commonly referred to as PFAS) and other chemicals of emerging concern, and limitations or bans on disposal of certain types of wastes or on the transportation of waste, which could limit our ability to conduct or grow our business, increase our costs to operate or require additional capital expenditures;
- safety and operational risks, including the risk of personal injury to our employees or third parties;

- potential increases in our costs if we are required to provide additional funding to any multiemployer pension plan to which we contribute or if a withdrawal event (including our voluntary withdrawal, which we consider from time to time, or the mass withdrawal of all contributing employers from any underfunded multiemployer pension plan) occurs with respect to any such plan;
- the negative impact on our operations of union organizing campaigns, work stoppages or labor shortages;
- the negative effect that trends toward requiring recycling, waste reduction at the source and prohibiting the disposal of certain types of wastes could have on volumes of waste going to landfills;
- changes by the Financial Accounting Standards Board or other accounting regulatory bodies to generally accepted accounting principles or policies;
- the impact of U.S. and international tax laws and regulations on our business;
- risks related to interruptions and breaches of our information technology systems that could adversely affect, or temporarily disable, all or a portion of our operations or have a negative effect on our infrastructure;
- the negative impact that a cyber-security incident could have on our business and our relationships with customers and employees; and
- acts of war, riots or terrorism, including the continuing war on terrorism, as well as actions taken or to be taken by the United States or other governments as a result of further acts or threats of terrorism, and the impact of these acts on economic, financial and social conditions in the United States.

The risks included here are not exhaustive. Refer to the Risk Factors in this Item 1A for further discussion regarding our exposure to risks. You should be aware that any forward-looking statement in this Form 10-K and the documents incorporated herein by reference or elsewhere, speaks only as of the date on which we make it. Additionally, new risk factors emerge from time to time and it is not possible for us to predict all such risk factors, or to assess the impact such risk factors might have on our business or the extent to which any factor or combination of factors may cause actual results to differ materially from those contained in any forward-looking statements. You should not place undue reliance on any forward-looking statement. Except to the extent required by applicable law or regulation, we undertake no obligation to update or publish revised forward-looking statements to reflect events or circumstances after the date of this Form 10-K and the documents incorporated by reference, as the case may be, or to reflect the occurrence of unanticipated events.

General economic conditions can directly and adversely affect our operating results.

Our business is directly affected by changes in national and general economic factors and overall economic activity that are outside of our control, including consumer confidence and interest rates. A weak economy generally results in decreases in volumes of waste generated, which adversely affects our revenues. In addition, we have a relatively high fixed-cost structure, which is difficult to adjust quickly to match declining waste volume levels. Consumer uncertainty and the loss of consumer confidence may decrease overall economic activity and thereby limit the amount of services we provide. Additionally, a decline in waste volumes may result in increased competitive pricing pressure and increased customer turnover, resulting in lower revenue and increased operating costs. Operating in an environment of worsening economic conditions could have a material adverse effect on our consolidated financial condition, results of operations and cash flows. Further, recovery in the solid waste industry historically has lagged behind recovery in the general economy. Accordingly, we cannot assure you that an improvement in general economic conditions will result in an immediate, or any, improvement in our consolidated financial condition, results of operations or cash flows.

Weakness in the U.S. economy may expose us to credit risk for amounts due from governmental entities, large national accounts, industrial customers and others.

Weakness in the U.S. economy reduces the amount of taxes collected by various governmental entities. We provide services to a number of these entities, including numerous municipalities. These governmental entities may suffer financial difficulties resulting from a decrease in tax revenue and may ultimately be unable or unwilling to pay amounts owed to us. In addition, weakness in the economy may cause other customers, including our large national accounts, or industrial or environmental services clients, to suffer financial difficulties and ultimately to be unable or unwilling to pay amounts owed to us. This could negatively impact our consolidated financial condition, results of operations and cash flows.

The waste industry is highly competitive and includes competitors that may have greater financial and operational resources, flexibility to reduce prices or other competitive advantages that could make it difficult for us to compete effectively.

We principally compete with large national waste management companies, numerous municipalities, and numerous regional and local companies. Competition for collection accounts is typically based on the quality of services, ease of doing business and/or price. Competition for disposal business is primarily based on geographic location, quality of operations, and price. One of our competitors may have greater financial and operational resources than we do. Further, many counties and municipalities that operate their own waste collection and disposal facilities have the benefits of tax revenue and greater opportunities for tax-exempt financing. Our ability to obtain solid waste volume for our landfills also may be limited by the fact that some major collection operations also own or operate landfills to which they send their waste. In certain markets in which we do not own or operate a landfill, our collection operations may have difficulty competing effectively. If we were to lose market share or if we were to lower prices to address competitive issues, it could negatively impact our consolidated financial condition, results of operations and cash flows.

Price increases may not be adequate to offset the effect of increased costs and may cause us to lose volume.

We seek to secure price increases necessary to offset increased costs, improve our operating margins and earn an appropriate return on our substantial investments in assets such as our landfills. From time to time, our competitors reduce their prices in an effort to expand their market share. Contractual, general economic or market-specific conditions also may limit our ability to raise prices. For example, many of our contracts have price adjustment provisions that are tied to an index such as the consumer price index. Particularly in a weak U.S. economy, our costs may increase in excess of the increase, if any, in the consumer price index. This may continue to be the case even when the U.S. economy recovers because a recovery in the solid waste industry historically has lagged behind a recovery in the general economy. As a result, we may be unable to offset increases in costs, improve our operating margins and obtain adequate investment returns through price increases. Price increases also might cause us to lose volume to lower-cost competitors.

Increases in the cost of fuel or petrochemicals would increase our operating expenses, and we cannot assure you that we would be able to recover such cost increases from our customers.

We depend on fuel purchased in the open market to operate our collection and transfer trucks and other equipment used for collection, transfer and disposal. Fuel prices are unpredictable and fluctuate significantly based on events beyond our control, including geopolitical developments, actions by the Organization of the Petroleum Exporting Countries and other oil and gas producers, changes in refinery operations, supply and demand for oil and gas, war, terrorism and unrest in oil-producing countries, adverse weather and regional production patterns. Due to contractual or market factors, we may not be able to offset increased fuel costs resulting from such volatility through fuel recovery fees. Our fuel costs were $347.9 million in 2019, or 3.4% of revenue, compared to $391.4 million in 2018, or 3.9% of revenue.

To manage our exposure to volatility in fuel prices, we have entered into multiple swap agreements whereby we receive or make payments to counter-parties should the price of fuel vary from a specified amount. During 2018, approximately 6% of our fuel volume purchases were hedged with swap agreements (fuel hedges). All of our fuel hedges settled on or before December 31, 2018 and we did not enter into any new agreements in 2019. Additionally, we are able to collect fuel recovery fees from some customers. At current consumption levels, a twenty-cent per gallon change in the price of diesel fuel changes our fuel costs by approximately $26 million on an annual basis. Offsetting these changes in fuel expense would be changes in our fuel recovery fee charged to our customers. At current participation rates, we believe a twenty-cent per gallon change in the price of diesel fuel changes our fuel recovery fee by approximately $26 million. A substantial rise or drop in fuel costs could materially affect our revenue and cost of operations.

Over the last several years, regulations have been adopted mandating changes in the composition of fuels for motor vehicles. The renewable fuel standards that the EPA sets annually affect the type of fuel our motor vehicle fleet uses. Pursuant to the Energy Independence and Security Act of 2007, the EPA establishes annual renewable fuel volume requirements for four different categories of renewable fuels (renewable fuel, advanced biofuel, cellulosic biofuel, and biomass-based diesel). These volume requirements set standards for the proportion of refiners' or importers' total fuel volume that must contain renewable fuels (as designated by regulation). The total volume metrics for each year vary based upon a number of factors (e.g., the availability of such fuels), and it is difficult to predict the ultimate quantity that the EPA will eventually mandate for future years. These regulations are one of many factors that may affect the cost of the fuel we use.

Our operations also require the use of products (such as liners at our landfills) whose costs may vary with the price of petrochemicals. An increase in the price of petrochemicals could increase the cost of those products, which would increase our operating and capital costs. Petrochemical prices, and hence our operating and capital costs, may be further affected by regulatory efforts to reduce greenhouse gases from the industries that produce such petrochemicals. We are also susceptible to increases in fuel recovery fees from our vendors.

Fluctuations in prices for recycled commodities that we sell to customers may adversely affect our consolidated financial condition, results of operations and cash flows.

We purchase or collect and process recyclable materials such as paper, cardboard, plastics, aluminum and other metals for sale to third parties. Our results of operations may be affected by changing prices or market requirements for recyclable materials. The resale and purchase prices of, and market demand for, recyclable materials are volatile due to changes in economic conditions and numerous other factors beyond our control. For instance, in 2017 the Chinese government imposed strict limits on the import of recyclable materials, including by restricting the amount of contaminants allowed in imported recycled paper. These limitations significantly decreased the global demand for recyclable materials and resulted in lower commodity prices. Significant price fluctuations or increased operating costs may affect our consolidated financial condition, results of operations and cash flows. In 2019, approximately 79% of our recycling processing center volume was fiber based and included OCC, ONP and other mixed paper.

Historically, to manage our exposure to fluctuations in prices for recycled commodities, we have entered into multiple hedging arrangements whereby we receive or make payments to counter-parties should the price of recycled commodities vary from a specified amount or range. During 2017, we entered into multiple agreements related to forecasted OCC sales, all of which expired in 2018. We have not entered into any agreements related to forecasted OCC sales since 2017.

At current volumes and mix of materials, we believe a $10 per ton change in the price of recycled commodities would change annual revenue and operating income by approximately $13 million and $13 million, respectively, on an annual basis. Accordingly, a substantial rise or drop in recycled commodity prices could materially affect our revenue and operating income. Although we have entered into hedging agreements to help offset volatility in recycled commodity prices in the past, we cannot provide assurance that we will enter into these agreements in the future.

Adverse weather conditions, including those brought about by climate change, may limit our operations and increase the costs of collection and disposal.

Our collection and landfill operations could be adversely impacted by extended periods of inclement weather, or by increased severity of weather and climate extremes resulting from climate change, some of which we may already be experiencing. Recent studies suggest that global warming is occurring faster than previously projected, with the EPA projecting a 3° to 12° Fahrenheit temperature increase in the United States by the end of the century. In addition to sea level rise, this temperature increase is expected to result in more severe droughts, floods, and other extreme weather events. Any of these factors could increase the volume of waste collected under our existing contracts (without corresponding compensation), interfere with collection, transfer station and landfill operations, delay the development of landfill capacity or reduce the volume of waste generated by our customers. In addition, adverse weather conditions may result in the temporary suspension of our operations, which can significantly affect our operating results in the affected regions during those periods.

The solid waste industry is a capital-intensive industry and our capital expenditures may exceed current expectations, which could require us to obtain additional funding for our operations or impair our ability to grow our business.

Our ability to remain competitive and to grow our business largely depends on our cash flow from operations and access to capital. If our capital efficiency programs cannot offset the effect of inflation and business growth, it may be necessary to increase the amount we spend. Additionally, if we make acquisitions or further expand our operations, the amount we spend on capital, capping, closure, post-closure, environmental remediation and other items will increase. Our cash needs also will increase if the expenditures for capping, closure, post-closure and remediation activities increase above our current estimates, which may occur over a long period due to changes in federal, state or local government requirements and other factors beyond our control. Increases in expenditures would negatively impact our cash flows.

We may be unable to obtain or maintain required permits or to expand existing permitted capacity of our landfills, which could decrease our revenue and increase our costs.

We cannot assure you that we will be able to obtain or maintain the permits required for our operations because permits to operate new landfills and transfer stations, or to expand the permitted capacity of existing landfills or increase acceptable volume at transfer stations, have become more difficult and expensive to obtain and maintain. Permits often take years to obtain as a result of numerous hearings and compliance requirements with regard to zoning, environmental and other regulations. These permits are also often subject to resistance from citizen or other groups and other political pressures. Local communities and citizen groups, adjacent landowners, governmental agencies and others may oppose the issuance of a permit or approval we may need, allege violations of the permits under which we currently operate or laws or regulations to which we are subject, or seek to impose liability on us for environmental damage. Such actions could also create risks related to our reputation, which may limit our ability to do business. Responding to these challenges has at times increased our costs and extended the time associated with establishing new landfills and transfer stations and expanding existing landfills. In addition, failure to receive regulatory and zoning approval may prohibit us from establishing new landfills or transfer stations or expanding existing

landfills. Our failure to obtain the required permits to operate our landfills and transfer stations could have a material adverse effect on our consolidated financial condition, results of operations and cash flows. In addition, we may have to dispose collected waste at landfills operated by our competitors or haul the waste long distances at a higher cost to one of our other landfills, either of which could significantly increase our waste disposal costs.

If we do not appropriately estimate landfill capping, closure, post-closure and remediation costs, our financial condition and results of operations may be adversely affected.

A landfill must be closed and capped, and post-closure maintenance commenced, once the landfill's permitted capacity is reached and additional capacity is not authorized. Further, we undertake remediation activities at some of our solid waste facilities. We have significant financial obligations relating to capping, closure, post-closure and remediation costs at our existing owned or operated landfills, and will have material financial obligations with respect to any future owned or operated landfills. We establish accruals for the estimated costs associated with capping, closure, post-closure and remediation obligations. We could underestimate such costs, and our financial obligations for capping, closure, post-closure or remediation costs could exceed the amounts accrued or amounts otherwise receivable pursuant to trust funds established for this purpose. Additionally, if a landfill must be closed earlier than expected or its remaining airspace is reduced for any other reason, the accruals for capping, closure, post-closure and remediation could be required to be accelerated. If our capping, closure, post-closure or remediation costs exceed the amounts accrued, or if such accruals are required to be accelerated, this could have a material adverse effect on our consolidated financial condition, results of operations and cash flows.

Alternatives to landfill disposal could reduce our disposal volumes and cause our revenues and operating results to decline.

Most of the states in which we operate landfills require counties and municipalities to formulate comprehensive plans to reduce the volume of solid waste deposited in landfills through waste planning, composting, recycling or other programs. Some state and local governments mandate waste reduction at the source and prohibit the disposal of certain types of wastes, such as yard waste, at landfills. Further, many of our customers voluntarily are diverting waste to alternatives to landfill disposal, such as recycling and composting, while also working to reduce the amount of waste they generate. Many of the largest companies in the U.S. are setting zero-waste goals in which they strive to send no waste to landfills. Although such actions help to protect our environment and reduce the impact of waste on climate change, they have reduced, and will in the future reduce, the volume of waste going to landfills and may affect the prices that we can charge for landfill disposal. Accordingly, we cannot assure you that we will be able to operate our landfills at their current volumes or charge current prices for landfill disposal services due to possible decreases in demand for such services. If we cannot expand our service offerings and grow lines of business to service waste streams that do not go to landfills and to provide services for customers that wish to reduce waste entirely, this could have a negative effect on our consolidated financial condition, results of operations and cash flows. Further, even if we can develop such service offerings and lines of business, disposal alternatives nonetheless could have a negative effect on our consolidated financial condition, results of operations and cash flows.

The possibility of landfill and transfer station site development projects, or expansion projects not being completed or certain other events could result in material charges to income.

In accordance with U.S. GAAP, we capitalize certain expenditures relating to development, expansion and other projects. If a facility or operation is permanently shut down or determined to be impaired, or a development, expansion or other project is not completed or is determined to be impaired, we will charge against earnings any unamortized capitalized expenditures relating to such facility or project that we are unable to recover through sale, transfer or otherwise. We also carry a significant amount of goodwill on our consolidated balance sheets, which we must assess for impairment annually, and more frequently in the case of certain triggering events. We may incur charges against earnings in accordance with this policy, or other events may cause impairments. Such charges could have a material adverse effect on our results of operations.

The business and assets we operate expose us to safety, operational and other risks, including the risk of personal injury to our employees or third parties.

The provision of waste collection, transfer, disposal, recycling and environmental services, including the operation of landfills, CNG fueling stations, a substantial fleet of trucks and other waste-related assets, involves risks. These risks include, among others, the risk of truck accidents, equipment defects, malfunctions and failures, improper use of dangerous equipment, the release of hazardous substances, fire and explosion, any of which could result in environmental liability, personal injury, loss of life, business interruption or property damage or destruction. While we carry insurance to cover many contingencies, and seek to minimize our exposure to these risks through maintenance, training and compliance programs, any substantial losses could have a material adverse effect on our business, results of operations and financial condition.

We are subject to costly environmental regulations and flow-control regulations that may affect our operating margins, restrict our operations and subject us to additional liability.

Complying with laws and regulations governing the collection, treatment, storage, transfer and disposal of solid and hazardous wastes and materials, air quality and emissions of greenhouse gases, water quality and the remediation of contamination associated with the release of hazardous substances is costly. Laws and regulations often require us to enhance or replace our equipment and to modify landfill operations or initiate final closure of a landfill. We cannot assure you that we will be able to implement price increases sufficient to offset the costs of complying with these laws and regulations. In addition, environmental regulatory changes, including those relating to per- and polyfluoroalkyl substances (commonly referred to as PFAS) and other chemicals of emerging concern, could accelerate or increase expenditures for capping, closure, post-closure and environmental and remediation activities at solid waste facilities and obligate us to spend sums in addition to those presently accrued for such purposes, which could have a negative effect on our consolidated financial position, results of operations and cash flows.

Our business is and will continue to be affected by state or local laws or regulations that restrict the transportation of solid waste across state, county or other jurisdictional lines or that direct the flow of waste to a specified facility or facilities. Such laws and regulations could negatively affect our operations, resulting in declines in landfill volumes and increased costs of alternate disposal.

Regulation of greenhouse gas emissions could impose costs on our operations, the magnitude of which we cannot yet estimate.

Efforts to curtail the emission of greenhouse gases and to ameliorate the effects of climate change continue to progress. Our landfill operations emit anthropogenic methane, identified as a greenhouse gas, and our vehicle fleet emits, among other things, carbon dioxide, which also is a greenhouse gas. Conventional wisdom still suggests that passage of comprehensive, federal climate change legislation is highly unlikely. Nonetheless, should comprehensive federal climate change legislation be enacted, we expect it to impose costs on our operations, the materiality of which we cannot predict.

Absent comprehensive federal legislation to control greenhouse gas emissions, the EPA is moving ahead administratively under its existing Clean Air Act authority. The EPA is compelled to issue rules by the U.S. Supreme Court's April 2007 *Massachusetts v. EPA* ruling that greenhouse gases are pollutants for purposes of the Clean Air Act and the EPA's December 2009 finding that continued emissions of greenhouse gases endanger human health and welfare. With respect to our light- and heavy-duty vehicle fleet, the EPA has since finalized regulations limiting greenhouse gas emissions and increasing fuel economy standards. The EPA and the NHTSA have finalized such regulations applicable to light-duty vehicles through model year 2025. In 2018, the EPA and the NHTSA proposed to revise the light-duty vehicle standards for model years 2021 through 2024 to make them less stringent; final action on the proposal is anticipated in 2020 but may be challenged in court. On August 16, 2016, the EPA and the NHTSA issued additional regulations that would impose more stringent standards for heavy-duty vehicles through model-year 2027. Federal efforts to curtail greenhouse gas emissions and to increase the fuel efficiency of light-duty and heavy-duty vehicles could have a material adverse effect on our consolidated financial condition, results of operations and cash flows.

With regard to greenhouse gas emissions from our landfills, on July 14, 2016, the EPA issued amendments to its regulations that require large landfills that commenced construction, reconstruction or modification on or after July 17, 2014 to capture additional landfill gas to reduce emissions of methane and certain non-methane gases, which are recognized as greenhouse gases. In a separate action finalized that same day, the EPA issued updates to its 1996 Emission Guidelines to reduce emissions of landfill gas from existing active landfills. Both actions are part of the Obama Administration's Climate Action Plan - Strategy to Reduce Methane Emissions. The Trump Administration proposed to reconsider these rules, but its action has been subject to litigation, which is still pending. If these regulations, or an amended version of them eventually goes into effect, they may require our landfills to deploy more stringent emission controls and monitoring systems, with resulting capital or operating costs. The application of these or other greenhouse gas regulations to our landfills could have a material adverse effect on our landfill operations and on our consolidated financial condition, results of operations and cash flows.

We may have environmental liabilities that are not covered by our insurance. Changes in insurance markets also may impact our financial results.

We may incur environmental liabilities arising from our operations or properties. We maintain high deductibles for our environmental liability insurance coverage. If we were to incur substantial liability for environmental damage, our insurance coverage may be inadequate to cover such liability. This could have a material adverse effect on our consolidated financial condition, results of operations and cash flows.

Also, due to the variable condition of the insurance market, we have experienced, and may experience in the future, increased insurance retention levels and increased premiums or unavailability of insurance. As we assume more risk for insurance through higher retention levels, we may experience more variability in our insurance reserves and expense.

Despite our efforts, we may incur additional liability under environmental laws in excess of amounts presently known and accrued.

We are a potentially responsible party at many sites under CERCLA, which provides for the remediation of contaminated facilities and imposes strict, joint and several liability for the cost of remediation on current owners and operators of a facility at which there has been a release or a threatened release of a hazardous substance. CERCLA liability also extends to parties who were site owners and operators at the time hazardous substances were disposed, and on persons who arrange for the disposal of such substances at the facility (e.g., generators of the waste and transporters who selected the disposal site). Hundreds of substances are defined as hazardous under CERCLA and their presence, even in minute amounts, can result in substantial liability.

Notwithstanding our efforts to comply with applicable environmental laws, we may have additional liability under environmental laws in excess of our current reserves because, among other things, hazardous substances may be present in waste collected by us or disposed of in our landfills (or in waste collected, transported or disposed of in the past by businesses we have acquired), environmental laws may change, or there may be adverse environmental conditions that develop or were otherwise previously unknown to us. For example, during 2012 through 2014, we recorded an aggregate of approximately $400 million in charges relating to environmental remediation at our closed landfill in Bridgeton, Missouri. Actual costs for liabilities at Bridgeton or other sites could be significantly greater than amounts we have accrued for these purposes. Environmental liabilities in excess of our current reserves could have a material adverse effect on our consolidated financial position, results of operations and cash flows.

We have substantial indebtedness, which may limit our financial flexibility.

As of December 31, 2019, we had approximately $8.8 billion in principal value of debt and finance leases outstanding. This amount of indebtedness and our debt service requirements may limit our financial flexibility to access additional capital and make capital expenditures and other investments in our business, to withstand economic downturns and interest rate increases, to plan for or react to changes in our business and our industry, and to comply with the financial and other covenants of our debt instruments. Further, our ability to comply with these financial and other covenants may be affected by changes in economic or business conditions or other events that are beyond our control. If we do not comply with these covenants, we may be required to take actions such as reducing or delaying capital expenditures, reducing or eliminating dividends or stock repurchases, selling assets, restructuring or refinancing all or part of our existing debt, or seeking additional equity capital.

We may be unable to maintain our credit ratings or execute our financial strategy.

Our ability to execute our financial strategy depends in part on our ability to maintain investment grade ratings on our debt. The credit rating process is contingent upon a number of factors, many of which are beyond our control. We cannot assure you that we will be able to maintain our investment grade ratings in the future. If we were unable to do so, our interest expense would increase and our ability to obtain financing on favorable terms may be adversely affected.

Our financial strategy also depends on our ability to generate sufficient cash flow to reinvest in our existing business, fund internal growth, acquire other solid waste businesses, pay dividends, repurchase stock, and take other actions to enhance shareholder value. We cannot assure you that we will succeed in executing our broad-based pricing initiatives, that we will generate sufficient cash flow to execute our financial strategy, that we will be able to pay cash dividends at our present rate, or increase them, or that we will be able to continue our share repurchase program.

Currently pending or future litigation or governmental proceedings could result in material adverse consequences, including judgments or settlements.

We are and will continue to be involved in lawsuits, regulatory inquiries, and governmental and other legal proceedings. Many of these matters raise complicated factual and legal issues and are subject to uncertainties. The timing of the final resolutions to lawsuits, regulatory inquiries, and governmental and other legal proceedings is uncertain. Further, the possible outcomes or resolutions to these matters could include adverse judgments or settlements, either of which could require substantial payments and adversely affect our consolidated financial condition, results of operations and cash flows.

For example, we incur costs to defend against litigation brought by government agencies and private parties who allege we are in violation of our permits and applicable environmental laws and regulations, or who assert claims alleging nuisance, environmental damage, personal injury or property damage. As a result, we may be required to pay fines or judgments or implement corrective measures, or we may have our permits and licenses modified or revoked. A significant judgment against us, the loss of a significant permit or license, or the imposition of a significant fine could have a material adverse effect on our consolidated financial condition, results of operations and cash flows. We establish accruals for our estimates of the costs associated with lawsuits, regulatory, governmental and other legal proceedings. We could underestimate such accruals. Such shortfalls could result in significant unanticipated charges to income.

We may be unable to manage our growth effectively.

Our growth strategy places significant demands on our financial, operational and management resources. To continue our growth, we may need to add administrative, managerial and other personnel, and may need to make additional investments in operations and systems. We cannot assure you that we will be able to find and train qualified personnel, or do so on a timely basis, or to expand or otherwise modify our operations and systems to the extent, and in the time, required.

We may be unable to execute our acquisition growth strategy.

Our ability to execute our growth strategy depends in part on our ability to identify and acquire desirable acquisition candidates and on our ability to successfully integrate acquired operations into our business. The integration of our operations with those of acquired companies may present significant challenges to our management. In addition, competition for acquisition candidates may prevent us from acquiring certain acquisition candidates. Thus, we cannot assure you that:

- desirable acquisition candidates exist or will be identified;
- we will be able to acquire any of the candidates identified;
- we will effectively integrate and manage companies we acquire; or
- any acquisitions will be profitable or accretive to our earnings.

If any of these factors force us to alter our growth strategy, our growth prospects could be adversely affected.

Businesses we acquire may have undisclosed liabilities.

Our due diligence investigations of acquisition candidates may fail to discover certain undisclosed liabilities. If we acquire a company with undisclosed liabilities such as environmental, remediation or contractual liabilities, as a successor owner we may be responsible for such undisclosed liabilities. We try to minimize our exposure to such liabilities by conducting due diligence, by obtaining indemnification from each seller of the acquired companies, by deferring payment of a portion of the purchase price as security for the indemnification, by obtaining representations and warranties insurance and by acquiring only specified assets. However, we cannot assure you that we will be able to obtain indemnification or insurance coverage or that any indemnification or insurance coverage obtained will be enforceable, collectible or sufficient in amount, scope or duration to fully offset any undisclosed liabilities arising from our acquisitions.

Our consolidated financial statements are based on estimates and assumptions that may differ from actual results.

Our consolidated financial statements have been prepared in accordance with U.S. GAAP and necessarily include amounts based on management's estimates. Actual results may differ from these amounts. Significant items requiring management to make subjective or complex judgments that are inherently uncertain include the recoverability of long-lived assets, the depletion and amortization of landfill development costs, accruals for final capping, closure and post-closure costs, valuation allowances for accounts receivable and deferred tax assets, liabilities for potential litigation, claims and assessments, and liabilities for environmental remediation, multiemployer pension plans, employee benefit plans, deferred taxes, uncertain tax positions, insurance and our estimates of the fair values of assets acquired and liabilities assumed in any acquisition. We cannot assure you that the liabilities recorded for items such as these will be adequate to cover the costs we ultimately will face.

The introduction of new accounting rules, laws or regulations could adversely impact our reported results of operations.

Complying with new accounting rules, laws or regulations could adversely impact our results of operations or cause unanticipated fluctuations in our results of operations or financial conditions in future periods.

We may be subject to workforce influences, including work stoppages, which could increase our operating costs and disrupt our operations.

As of December 31, 2019, approximately 24% of our workforce was covered by collective bargaining agreements. If our unionized workers were to engage in strikes, work stoppages or other slowdowns, we could experience a significant disruption of our operations and an increase in our operating costs, which could have an adverse effect on our consolidated financial condition, results of operations and cash flows. Additional groups of employees may seek union representation in the future and, if successful, the negotiation of collective bargaining agreements could divert management's attention and result in increased operating costs. If a greater percentage of our workforce becomes unionized, our consolidated financial condition, results of operations and cash flows could be adversely impacted due to the potential for increased operating costs.

Our obligation to fund multiemployer pension plans to which we contribute, or our withdrawal from such plans, may have an adverse effect on us.

We participate in multiemployer pension plans that generally provide retirement benefits to participants of contributing employers. We do not administer these plans and generally are not represented on the boards of trustees of these plans. The Pension Protection Act enacted in 2006 (the PPA) requires under-funded pension plans to improve their funding ratios. Based on the information available to us, we believe that some of the multiemployer plans to which we contribute are either critical or endangered as those terms are defined in the PPA. We cannot presently determine the amount of additional funding, if any, we may be required to make to these plans. However, plan assessments could have a material adverse effect on our results of operations or cash flows for a given period.

Further, under current law, upon the termination of a multiemployer pension plan, or in the event of a withdrawal by us (which we consider from time to time) or a mass withdrawal of contributing employers (each, a Withdrawal Event), we would be required to make payments to the plan for our proportionate share of the plan's unfunded vested liabilities. We cannot assure you that there will not be a Withdrawal Event with respect to any of the multiemployer pension plans to which we contribute or that, in the event of such a Withdrawal Event, the amounts we would be required to contribute would not have a material adverse effect on our consolidated financial condition, results of operations and cash flows.

For additional discussion and detail regarding multiemployer pension plans see Note 12, *Employee Benefit Plans,* of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

The costs of providing for pension benefits and related funding requirements are subject to changes in pension fund values and fluctuating actuarial assumptions, and may have a material adverse effect on our financial condition, results of operations and cash flows.

We sponsor a defined benefit pension plan that is funded with trustee assets invested in a diversified portfolio of debt and equity securities. Our costs for providing such benefits and related funding requirements are subject to changes in the market value of plan assets. Our pension expenses and related funding requirements are also subject to various actuarial calculations and assumptions, which may differ materially from actual results due to changing market and economic conditions, interest rates and other factors. A significant increase in our pension obligations and funding requirements could have a material adverse effect on our consolidated financial condition, results of operations and cash flows.

The loss of key personnel could have a material adverse effect on our consolidated financial condition, results of operations, cash flows and growth prospects.

Our future success depends on the continued contributions of several key employees and officers. The loss of the services of key employees and officers, whether through resignation or other causes, or the inability to attract additional qualified personnel, could have a material adverse effect on our consolidated financial condition, results of operations, cash flows and growth prospects.

Our strategy includes an increasing dependence on technology in our operations. If any of our key technology fails, our business could be adversely affected.

Our operations are increasingly dependent on technology. Our information technology systems are critical to our ability to drive profitable growth through differentiation, continue the implementation of standardized processes and deliver a consistent customer experience. One of the five pillars of our strategy is to grow through enabling our customers to do business with us through more channels and with better access to information and, accordingly, we have made substantial investment in our e-commerce platform. Problems with the operation of the information or communication technology systems we use could adversely affect, or temporarily disable, all or a portion of our operations. Inabilities and delays in implementing new systems can also affect our ability to realize projected or expected revenue or cost savings. Further, any systems failures could impede our ability to timely collect and report financial results in accordance with applicable laws. In addition, emerging technologies that are used to recycle and process waste, as an alternative to disposal of waste in landfills, represent risks, as well as opportunities, to our current business model.

A cyber security incident could negatively impact our business and our relationships with customers.

We use information technology, including computer and information networks, in substantially all aspects of our business operations. We also use mobile devices, social networking and other online activities to connect with our employees and our customers. Such uses give rise to cyber security risks, including security breach, espionage, system disruption, theft and inadvertent release of information. Our business involves the storage and transmission of numerous classes of sensitive and/or confidential information and intellectual property, including customers' personal information, private information about employees, and financial and strategic information about us and our business partners. We also rely on a Payment Card Industry compliant third party to protect our customers' credit card information. In connection with our strategy to grow through

acquisitions and to pursue new initiatives that improve our operations and cost structure, we are also expanding and improving our information technologies, resulting in a larger technological presence and corresponding exposure to cyber security risk. If we fail to assess and identify cyber security risks associated with acquisitions and new initiatives, we may become increasingly vulnerable to such risks. Additionally, while we have implemented measures to prevent security breaches and cyber incidents, our preventive measures and incident response efforts may not be entirely effective. The theft, destruction, loss, misappropriation, or release of sensitive and/or confidential information or intellectual property, or interference with our information technology systems or the technology systems of third parties on which we rely, could result in business disruption, negative publicity, brand damage, violation of privacy laws, loss of customers, potential liability and competitive disadvantage.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Our corporate office is located at 18500 North Allied Way, Phoenix, Arizona 85054, where we currently lease approximately 145,000 square feet of office space.

Our principal property and equipment consists of land, landfills, buildings, vehicles and equipment. We own or lease real property in the states in which we conduct operations. As of December 31, 2019, we operated facilities in 41 states and Puerto Rico through 340 collection operations, 212 transfer stations, 189 active landfills, 79 recycling processing centers, 7 treatment, recovery and disposal facilities, 15 salt water disposal wells and 4 deep injection wells. In the aggregate, our active solid waste landfills total approximately 109,141 acres, including 38,494 permitted acres. We are engaged in 75 landfill gas-to-energy and renewable energy projects and had post-closure responsibility for 130 closed landfills. We believe that our property and equipment are adequate for our current needs.

ITEM 3. LEGAL PROCEEDINGS

General Legal Proceedings

We are subject to extensive and evolving laws and regulations and have implemented safeguards to respond to regulatory requirements. In the normal course of our business, we become involved in legal proceedings. Some may result in fines, penalties or judgments against us, or settlements, which may impact earnings and cash flows for a particular period. Although we cannot predict the ultimate outcome of any legal matter with certainty, we do not believe the outcome of any of our pending legal proceedings will have a material adverse effect on our consolidated financial position, results of operations or cash flows.

As used herein, the term *legal proceedings* refers to litigation and similar claims against us and our subsidiaries, excluding: (1) ordinary course accidents, general commercial liability and workers' compensation claims, which are covered by insurance programs, subject to customary deductibles, and which, together with self-insured employee health care costs, are discussed in Note 7, *Other Liabilities,* to our consolidated financial statements in Item 8 of this Form 10-K; and (2) environmental remediation liabilities, which are discussed in Note 8, *Landfill and Environmental Costs,* to our consolidated financial statements in Item 8 of this Form 10-K.

We accrue for legal proceedings when losses become probable and reasonably estimable. We have recorded an aggregate accrual of approximately $21 million relating to our outstanding legal proceedings as of December 31, 2019. As of the end of each applicable reporting period, we review each of our legal proceedings and, where it is probable that a liability has been incurred, we accrue for all probable and reasonably estimable losses. Where we are able to reasonably estimate a range of losses we may incur with respect to such a matter, we record an accrual for the amount within the range that constitutes our best estimate. If we are able to reasonably estimate a range but no amount within the range appears to be a better estimate than any other, we use the amount that is the low end of such range. If we had used the high ends of such ranges, our aggregate potential liability would be approximately $15 million higher than the amount recorded as of December 31, 2019.

Legal Proceedings over Certain Environmental Matters Involving Governmental Authorities with Possible Sanctions of $100,000 or More

Item 103 of the SEC's Regulation S-K requires disclosure of certain environmental matters when a governmental authority is a party to the proceedings and the proceedings involve potential monetary sanctions unless we reasonably believe the monetary sanctions will not equal or exceed $100,000. We are disclosing the following matters in accordance with that requirement:

Pine Avenue Landfill Matter

On December 20, 2016, the EPA issued a Finding of Violation (FOV) to Allied Waste Niagara Falls Landfill, LLC (Allied-Niagara). The FOV alleges violations of the Clean Air Act and associated regulations relating to operation of Allied-Niagara’s

Pine Avenue Landfill in Niagara County, New York. On October 16, 2017, Allied-Niagara received a civil penalty demand from the EPA. The demand proposes a penalty of $0.6 million or $2.5 million, depending on the results of requested sampling analysis at the site. Allied-Niagara is negotiating a resolution to the FOV, including the amount of the penalty.

West Contra Costa Sanitary Landfill Matters

The West Contra Costa Sanitary Landfill is a closed landfill formerly operated by West Contra Costa Sanitary Landfill, Inc. (WCCSL). The top deck area of the closed landfill is being utilized for a composting operation. In 2017 and 2018, the California State Water Resources Control Board (Water Board) issued three Notices of Violation alleging that operations at the closed landfill violated stormwater and waste discharge requirements permits. In September 2018, we received a proposed penalty assessment from the Water Board in the amount of $513,400. In November 2019, we received a revised penalty assessment from the Water Board in the amount of $520,500. WCCSL is in discussions concerning resolution of the alleged violations, including the amount of the penalty.

Blue Ridge Landfill Matter

On January 9, 2020, the Texas Commission on Environmental Quality (TCEQ) sent a Proposed Agreed Order (PAO) to Blue Ridge Landfill TX, LP (BRLF). The PAO alleges that BRLF violated certain federal and state air regulations and permit requirements and failed to prevent nuisance odor conditions at our Blue Ridge Landfill in Fresno, Texas. TCEQ has proposed an administrative penalty in the amount of $183,055. BRLF will discuss the proposed ordering provisions, including the amount of the penalty, with TCEQ.

ITEM 4. MINE SAFETY DISCLOSURES

None.

PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Market Information, Holders and Dividends

The principal market for our common stock is the New York Stock Exchange, and it is traded under the symbol RSG.

There were 569 holders of record of our common stock at February 7, 2020, which does not include beneficial owners for whom Cede & Co. or others act as nominees.

In February 2020, our Board of Directors declared a regular quarterly dividend of $0.405 per share for shareholders of record on April 1, 2020. We expect to continue to pay quarterly cash dividends, and we may consider increasing our dividends if we believe it will enhance shareholder value.

We have the ability under our credit facilities to pay dividends and repurchase our common stock if we are in compliance with the financial covenants in our credit facilities. As of December 31, 2019, we were in compliance with those financial covenants.

Issuer Purchases of Equity Securities

The following table provides information relating to our purchases of shares of our common stock during the three months ended December 31, 2019:

	Total Number of Shares Purchased (a)	Average Price Paid per Share (a)	Total Number of Shares Purchased as Part of Publicly Announced Program (b)	Dollar Value of Shares that May Yet Be Purchased Under the Program (c)
October 1 - 31	227,908	$ 85.49	227,908	$ 730,818,572
November 1 - 30	196,225	$ 85.86	196,225	$ 713,970,992
December 1 - 31	106,097	$ 88.48	106,097	$ 704,583,889
	530,230		530,230	

(a) In October 2017, our Board of Directors added $2.0 billion to the existing share repurchase authorization that now extends through December 31, 2020. Share repurchases under the program may be made through open market purchases or privately negotiated transactions in accordance with applicable federal securities laws. While the Board of Directors has approved the program, the timing of any purchases, the prices and the number of shares of common stock to be purchased will be determined by our management, at its discretion, and will depend upon market conditions and other factors. The share repurchase program may be extended, suspended or discontinued at any time. As of December 31, 2019, there were no repurchased shares pending settlement.

(b) The total number of shares purchased as part of the publicly announced program were all purchased pursuant to the October 2017 authorization.

(c) Shares that may be purchased under the program exclude shares of common stock that may be surrendered to satisfy statutory minimum tax withholding obligations in connection with the vesting of restricted stock units and performance stock units issued to employees.

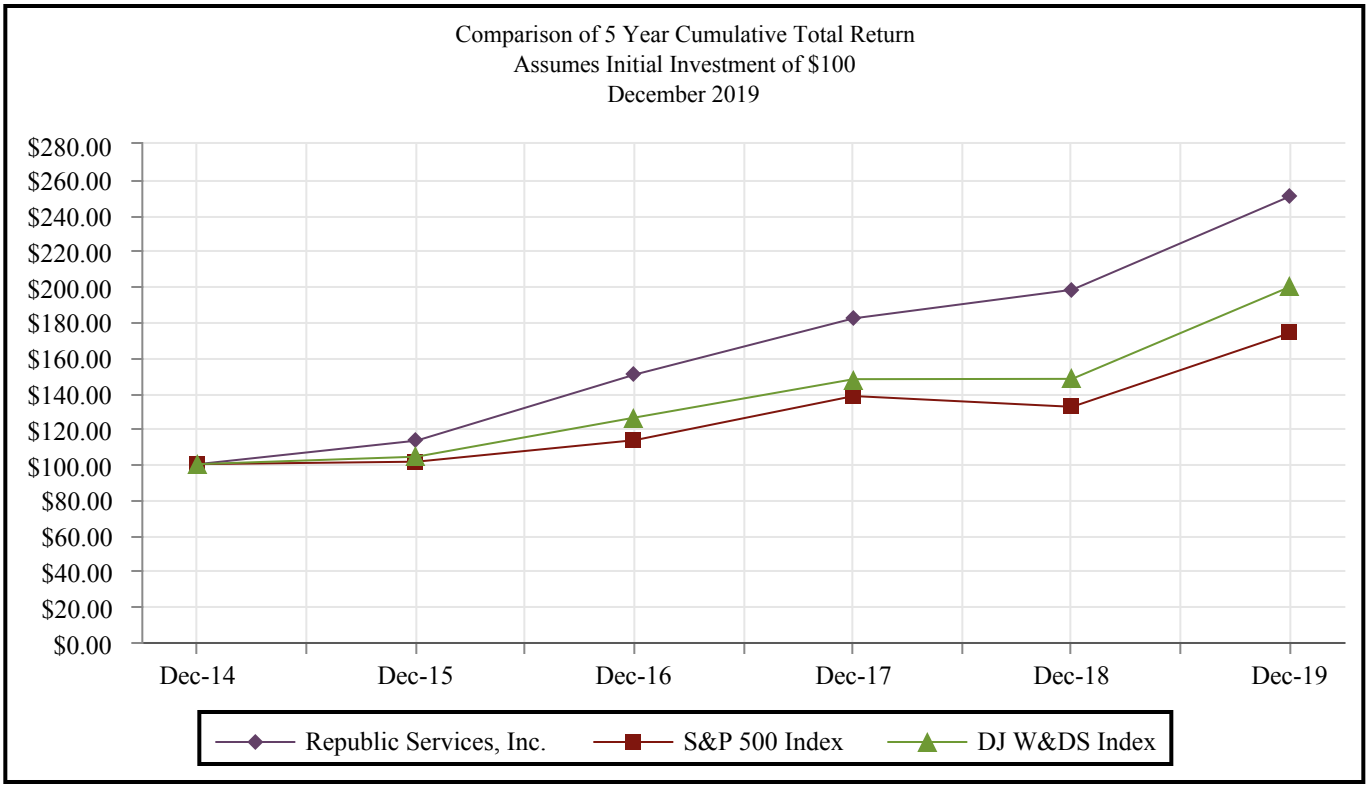
Recent Sales of Unregistered Securities

There were no sales of unregistered securities during the three months ended December 31, 2019.

Performance Graph

The following graph compares the performance of our common stock to the Standard & Poor's 500 Stock Index (S&P 500 Index) and the Dow Jones Waste & Disposal Services Index (DJ W&DS Index). The graph covers the period from December 31, 2014 to December 31, 2019 and assumes that the value of the investment in our common stock and in each index was $100 as of December 31, 2014 and that all dividends were reinvested.

The following performance graph and related information shall not be deemed "soliciting material" or to be "filed" with the SEC, nor shall such information be incorporated by reference into any future filing under the Securities Act of 1933 or the Securities Exchange Act of 1934, each as amended, except to the extent that we specifically incorporate it by reference into such filing.



	Indexed Returns for the Years Ended December 31,					
	2014	2015	2016	2017	2018	2019
Republic Services, Inc.	$ 100.00	$ 113.22	$ 150.41	$ 181.96	$ 198.05	$ 250.74
S&P 500 Index	$ 100.00	$ 101.38	$ 113.51	$ 138.29	$ 132.23	$ 173.86
DJ W&DS Index	$ 100.00	$ 104.19	$ 126.22	$ 147.78	$ 147.95	$ 199.87

ITEM 6. SELECTED FINANCIAL DATA

You should read the following Selected Financial Data in conjunction with Item 7, *Management's Discussion and Analysis of Financial Condition and Results of Operation* and Item 8, *Financial Statements and Supplementary Data*, which includes our consolidated financial statements and notes thereto as of and for the years ended December 31, 2019 and 2018, in this Form 10-K.

These historical results are not necessarily indicative of the results to be expected in the future. Amounts are in millions, except per share data.

	Years Ended December 31,				
	2019	2018	2017	2016	2015
Statements of Income Data:					
Revenue	$10,299.4	$10,040.9	$10,041.5	$ 9,387.7	$ 9,115.0
Expenses:					
Cost of operations	6,298.4	6,150.0	6,214.6	5,764.0	5,518.6
Depreciation, amortization and depletion	1,040.5	1,033.4	1,036.3	991.1	970.6
Accretion	81.9	80.7	79.8	79.1	79.4
Selling, general and administrative	1,091.9	1,059.5	1,057.4	969.8	983.1
Withdrawal costs - multiemployer pension funds	—	—	1.2	5.6	4.5
Gain on business divestitures and impairments, net	(14.7)	(44.9)	(33.9)	(0.1)	—
Restructuring charges	14.2	26.4	17.6	40.7	—
Operating income	1,787.2	1,735.8	1,668.5	1,537.5	1,558.8
Interest expense	(392.0)	(383.8)	(361.9)	(371.3)	(364.9)
Loss from unconsolidated equity method investments	(112.2)	(35.8)	(27.4)	(6.1)	—
Loss on extinguishment of debt	—	(0.3)	(0.8)	(196.2)	—
Interest income	6.4	1.6	1.0	0.9	0.8
Other income, net	6.4	3.4	2.7	1.1	1.2
Income before income taxes	1,295.8	1,320.9	1,282.1	965.9	1,195.9
Provision for income taxes	222.0	283.3	3.1	352.7	445.5
Net income	1,073.8	1,037.6	1,279.0	613.2	750.4
Net income attributable to non-controlling interests in consolidated subsidiary	(0.5)	(0.7)	(0.6)	(0.6)	(0.5)
Net income attributable to Republic Services, Inc.	$ 1,073.3	$ 1,036.9	$ 1,278.4	$ 612.6	$ 749.9
Basic earnings per share attributable to Republic Services, Inc. stockholders:					
Basic earnings per share	$ 3.34	$ 3.17	$ 3.79	$ 1.79	$ 2.14
Weighted average common shares outstanding	321.1	326.9	337.1	343.0	350.0
Diluted earnings per share attributable to Republic Services, Inc. stockholders:					
Diluted earnings per share	$ 3.33	$ 3.16	$ 3.77	$ 1.78	$ 2.13
Weighted average common and common equivalent shares outstanding	322.0	328.4	339.0	344.4	351.4
Cash dividends per common share	$ 1.56	$ 1.44	$ 1.33	$ 1.24	$ 1.16
Statements of Cash Flows Data:					
Cash provided by operating activities	$ 2,352.1	$ 2,242.8	$ 1,910.7	$ 1,847.8	$ 1,679.7
Purchases of property and equipment	$ 1,207.1	$ 1,071.8	$ 989.8	$ 927.8	$ 945.6
Proceeds from the sale of property and equipment	$ 21.7	$ 31.6	$ 6.1	$ 9.8	$ 21.2
Balance Sheet Data:					
Cash and cash equivalents	$ 47.1	$ 70.5	$ 83.3	$ 67.8	$ 32.4
Restricted cash and marketable securities	$ 179.4	$ 108.1	$ 141.1	$ 90.5	$ 100.3
Total assets	$22,683.8	$21,617.0	$21,147.0	$20,629.6	$20,535.9
Total debt	$ 8,688.5	$ 8,337.5	$ 8,187.4	$ 7,658.9	$ 7,532.9
Total stockholders' equity	$ 8,120.9	$ 7,929.5	$ 7,961.1	$ 7,693.7	$ 7,776.6

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

You should read the following discussion in conjunction with our audited consolidated financial statements and the notes thereto included in Item 8 of this Form 10-K. This discussion may contain forward-looking statements that anticipate results that are subject to uncertainty. We discuss in more detail various factors that could cause actual results to differ from expectations in Item 1A, Risk Factors in this Form 10-K.

In March 2019, the SEC amended its rules to modernize and simplify certain reporting requirements for public companies. As part of this change, registrants may exclude discussion of the earliest of the three years in Management's Discussion and Analysis (MD&A). For further discussion regarding our results of operations for the year ended December 31, 2018 as compared to the year ended December 31, 2017, refer to Item 7, *Management's Discussion and Analysis of Financial Condition and Results of Operations*, in our Annual Report on Form 10-K for the fiscal year ended December 31, 2018.

Overview

Republic is the second largest provider of non-hazardous solid waste collection, transfer, disposal, recycling, and environmental services in the United States, as measured by revenue. As of December 31, 2019, we operated facilities in 41 states and Puerto Rico through 340 collection operations, 212 transfer stations, 189 active landfills, 79 recycling processing centers, 7 treatment, recovery and disposal facilities, 15 salt water disposal wells, and 4 deep injection wells. We are engaged in 75 landfill gas-to-energy and renewable energy projects and had post-closure responsibility for 130 closed landfills.

Revenue for the year ended December 31, 2019 increased by 2.6% to $10,299.4 million compared to $10,040.9 million for the same period in 2018. This change in revenue is due to increases in total price, including fuel recovery fees, of 2.8% and acquisitions, net of divestitures of 0.8%, partially offset by the impact of decreased volumes of (0.4)%, environmental services of (0.3)%, and recycling processing and commodity sales of (0.3)%.

The following table summarizes our revenue, costs and expenses for the years ended December 31, 2019 and 2018 (in millions of dollars and as a percentage of revenue):

	2019		2018	
Revenue	$ 10,299.4	100.0 %	$ 10,040.9	100.0 %
Expenses:				
Cost of operations	6,298.4	61.2	6,150.0	61.2
Depreciation, amortization and depletion of property and equipment	985.8	9.6	969.1	9.6
Amortization of other intangible assets	20.4	0.2	56.4	0.6
Amortization of other assets	34.3	0.3	7.9	0.1
Accretion	81.9	0.8	80.7	0.8
Selling, general and administrative	1,091.9	10.6	1,059.5	10.5
Gain on business divestitures and impairments, net	(14.7)	(0.1)	(44.9)	(0.4)
Restructuring charges	14.2	0.1	26.4	0.3
Operating income	$ 1,787.2	17.3 %	$ 1,735.8	17.3 %

Our pre-tax income was $1,295.8 million for the year ended December 31, 2019, compared to $1,320.9 million in 2018. Our net income attributable to Republic Services, Inc. was $1,073.3 million, or $3.33 per diluted share for 2019, compared to $1,036.9 million, or $3.16 per diluted share, for 2018.

During 2019 and 2018, we recorded a number of charges, other expenses and benefits that impacted our pre-tax income, net income attributable to Republic Services, Inc. (net income – Republic) and diluted earnings per share as noted in the following table (in millions, except per share data). Additionally, see our *Cost of Operations*, *Selling, General and Administrative Expenses* and *Income Taxes* discussions contained in the *Results of Operations* section of this *Management's Discussion and Analysis of Financial Condition and Results of Operations* for a discussion of other items that impacted our earnings during the years ended December 31, 2019 and 2018.

	Year Ended December 31, 2019			Year Ended December 31, 2018		
	Pre-tax Income	Net Income - Republic	Diluted Earnings per Share	Pre-tax Income	Net Income - Republic	Diluted Earnings per Share
As reported	$ 1,295.8	$ 1,073.3	$ 3.33	$ 1,320.9	$ 1,036.9	$ 3.16
Restructuring charges	14.2	10.4	0.03	26.4	19.4	0.07
Loss on extinguishment of debt [2]	—	—	—	0.3	0.2	—
Gain on disposition of assets and asset impairments, net	(14.7)	(8.7)	(0.03)	(44.9)	(24.7)	(0.08)
Acquisition integration and deal costs	6.6	4.9	0.02	—	—	—
Fire-damage related costs	7.7	5.7	0.02	—	—	—
Incremental contract startup costs - large municipal contract [1]	0.7	0.5	—	5.7	4.2	0.01
Adoption of the Tax Act [2]	—	—	—	—	0.3	—
Bridgeton insurance recovery, net	(14.4)	(11.0)	(0.03)	(28.0)	(21.4)	(0.07)
Total adjustments	0.1	1.8	0.01	(40.5)	(22.0)	(0.07)
As adjusted	$ 1,295.9	$ 1,075.1	$ 3.34	$ 1,280.4	$ 1,014.9	$ 3.09

(1) The aggregate impact to adjusted diluted earnings per share totals to less than $0.01 for the year ended December 31, 2019.

(2) The aggregate impact to adjusted diluted earnings per share totals to less than $0.01 for the year ended December 31, 2018.

We believe that presenting adjusted pre-tax income, adjusted net income – Republic, and adjusted diluted earnings per share, which are not measures determined in accordance with U.S. GAAP, provides an understanding of operational activities before the financial impact of certain items. We use these measures, and believe investors will find them helpful, in understanding the ongoing performance of our operations separate from items that have a disproportionate impact on our results for a particular period. We have incurred comparable charges and costs in prior periods, and similar types of adjustments can reasonably be expected to be recorded in future periods. Our definitions of adjusted pre-tax income, adjusted net income – Republic, and adjusted diluted earnings per share may not be comparable to similarly titled measures presented by other companies. Further information on each of these adjustments is included below.

Restructuring charges. In January 2018, we eliminated certain positions following the consolidation of select back-office functions, including but not limited to the integration of our National Accounts support functions into our existing corporate support functions. These changes include a reduction in administrative staffing and the closure of certain office locations. During 2019, we incurred restructuring charges of $14.2 million that primarily related to the redesign of our back-office software systems. During 2018, we incurred restructuring charges of $26.4 million, that primarily consisted of severance and other employee termination benefits and the closure of offices with non-cancelable terms. We paid $10.6 million and $24.7 million during 2019 and 2018, respectively, related to these restructuring efforts.

In 2020, we expect to incur additional restructuring charges of approximately $15 million primarily related to the redesign of our back-office software systems. Substantially all of these restructuring charges will be recorded in our corporate segment.

Loss on extinguishment of debt. During 2019, we did not incur any non-cash losses on the early extinguishment of debt. During 2018, we incurred a $0.3 million loss on the extinguishment of certain financing arrangements.

Gain on disposition of assets and asset impairments, net. During 2019 and 2018, we recorded a net gain on disposition of assets and asset impairments related to business divestitures of $14.7 million and $44.9 million, respectively.

Acquisition integration and deal costs. Although our business regularly incurs costs related to acquisitions, we specifically identify in the table above integration and deal costs of $6.6 million incurred during 2019. We do this because of the magnitude of the costs associated with particular acquisition activity during 2019.

Fire-damage related costs. During the three months ended December 31, 2019, certain of our owned and operated facilities in our Group 1 segment were impacted by separate fire-related events. Although our business may incur fire-related damage to our leased or owned property, plant and equipment from time to time, we specifically identify in the table above fire-damage related

costs of $7.7 million incurred during 2019. We do this because of the magnitude of the costs incurred associated with these fires during 2019.

Incremental contract start-up costs - large municipal contract. Although our business regularly incurs startup costs under municipal contracts, we specifically identify in the table above the startup costs with respect to an individual municipal contract (and do not adjust for other startup costs under other contracts in 2019 or 2018). We do this because of the magnitude of the costs involved with this particular municipal contract and the unusual nature for the time period in which they were incurred. During 2019 and 2018, we incurred costs of $0.7 million and $5.7 million, respectively, related to the implementation of this large municipal contract. These costs did not meet the capitalization criteria prescribed by the new revenue recognition standard.

Adoption of the Tax Act. The Tax Act was enacted on December 22, 2017. Among other things, the Tax Act reduced the U.S. federal corporate tax rate from 35% to 21%. During 2018, we adjusted the provisional amounts recorded as of December 31, 2017 for the one-time transition tax, deferred taxes and uncertain tax positions. These adjustments increased our tax provision by $0.3 million.

Bridgeton insurance recovery, net. During 2019 and 2018, we collected insurance recoveries of $24.0 million and $40.0 million, respectively, related to our closed Bridgeton Landfill in Missouri, which we recognized as a reduction of remediation expenses in our cost of operations. In addition, we incurred $9.6 million and $12.0 million, respectively, of incremental costs attributable to the Bridgeton insurance recoveries.

Recent Developments

2020 Financial Guidance

In 2020, we will continue to focus on managing the controllable aspects of our business by enhancing the quality of our revenue, investing in profitable growth opportunities and reducing costs. Our team remains focused on executing our strategy to deliver consistent earnings and free cash flow growth, and improve return on invested capital. We are committed to an efficient capital structure, maintaining our investment grade credit ratings and increasing cash returned to our shareholders.

Our guidance is based on current economic conditions and does not assume any significant changes in the overall economy in 2020. Specific guidance follows:

Revenue

We expect 2020 revenue to increase by approximately 4.25 to 5.00% comprised of the following:

	Increase (Decrease)
Average yield	3.0%
Volume	0.75 to 1.0
Environmental services	(0.25) to 0.0
Fuel recovery fees	-
Recycling processing and commodity sales	(0.25) to 0.0
Acquisitions / divestitures, net	1.0
Total change	4.25 to 5.00%

Changes in price are restricted on approximately 50% of our annual service revenue. The majority of these restricted pricing arrangements are tied to fluctuations in a specific index (primarily a consumer price index) as defined in the contract. The consumer price index varies from a single historical stated period of time or an average of trailing historical rates over a stated period of time. In addition, the initial effect of pricing resets typically lags 6 to 12 months from the end of the index measurement period to the date the revised pricing goes into effect. As a result, current changes in a specific index may not manifest themselves in our reported pricing for several quarters into the future.

Adjusted Diluted Earnings per Share

The following is a summary of anticipated adjusted diluted earnings per share for the year ending December 31, 2020 compared to the actual adjusted diluted earnings per share for the year ended December 31, 2019. Adjusted diluted earnings per share is not a measure determined in accordance with U.S. GAAP:

	(Anticipated) Year Ending December 31, 2020	(Actual) Year Ended December 31, 2019
Diluted earnings per share	$ 3.44 to 3.49	$ 3.33
Withdrawal costs - multiemployer pension funds	0.01	—
Restructuring charges	0.03	0.03
Gain on business divestitures and impairments, net	—	(0.03)
Acquisition integration and deal costs	—	0.02
Fire-damage related costs	—	0.02
Incremental contract startup costs [(1)]	—	—
Bridgeton insurance recovery, net	—	(0.03)
Adjusted diluted earnings per share	$ 3.48 to 3.53	$ 3.34

(1) The aggregate impact to adjusted diluted earnings per share totals to less than $0.01 for the year ended December 31, 2019.

The 2020 anticipated adjusted diluted earnings per share assumes an effective tax rate of approximately 21% and an approximately $110 million charge related to solar energy investments that qualify for tax credits. The charge will be recorded as a loss from unconsolidated equity method investments.

We believe that the presentation of adjusted diluted earnings per share, which excludes restructuring charges, (gain) loss on business divestitures and impairments, net, acquisition integration and deal costs, fire damage related costs, incremental contract startup costs, and certain insurance recoveries provides an understanding of operational activities before the financial effect of certain items. We use this measure, and believe investors will find it helpful, in understanding the ongoing performance of our operations separate from items that have a disproportionate effect on our results for a particular period. We have incurred comparable charges and costs in prior periods, and similar types of adjustments can reasonably be expected to be recorded in future periods. Our definition of adjusted diluted earnings per share may not be comparable to similarly titled measures presented by other companies.

Results of Operations

Revenue

We generate revenue primarily from our solid waste collection operations. Our remaining revenue is from other services, including transfer station, landfill disposal, recycling, and environmental services. Our residential, small-container and large-container collection operations in some markets are based on long-term contracts with municipalities. Certain of our municipal contracts have annual price escalation clauses that are tied to changes in an underlying base index such as a consumer price index. We generally provide small-container and large-container collection services to customers under contracts with terms up to three years. Our transfer stations and landfills generate revenue from disposal or tipping fees charged to third parties. Our recycling processing facilities generate revenue from tipping fees charged to third parties and the sale of recycled commodities. Our revenue from environmental services consists mainly of fees we charge for disposal of non-hazardous solid and liquid waste and in-plant services, such as transportation and logistics. Environmental services waste is generated from the by-product of oil and natural gas exploration and production activity. Additionally, it is generated by the daily operations of industrial, petrochemical and refining facilities, including maintenance, plant turnarounds and capital projects. Other revenue consists primarily of revenue from National Accounts, which represents the portion of revenue generated from nationwide or regional contracts in markets outside our operating areas where the associated waste handling services are subcontracted to local operators. Consequently, substantially all of this revenue is offset with related subcontract costs, which are recorded in cost of operations.

The following table reflects our revenue by service line for the years ended December 31, 2019 and 2018 (in millions of dollars and as a percentage of revenue):

	2019		2018	
Collection:				
Residential	$ 2,271.9	22.1 %	$ 2,236.5	22.3 %
Small-container	3,170.0	30.8	3,059.1	30.5
Large-container	2,249.6	21.8	2,184.7	21.8
Other	46.1	0.4	43.8	0.4
Total collection	7,737.6	75.1	7,524.1	75.0
Transfer	1,318.6		1,244.9	
Less: intercompany	(748.0)		(713.8)	
Transfer, net	570.6	5.5	531.1	5.3
Landfill	2,328.8		2,291.7	
Less: intercompany	(1,028.7)		(1,020.8)	
Landfill, net	1,300.1	12.6	1,270.9	12.6
Environmental services	191.8	1.9	194.7	1.9
Other:				
Recycling processing and commodity sales	273.2	2.7	297.8	3.0
Other non-core	226.1	2.2	222.3	2.2
Total other	499.3	4.9	520.1	5.2
Total revenue	$ 10,299.4	100.0 %	$ 10,040.9	100.0 %

The following table reflects changes in components of our revenue, as a percentage of total revenue, for the years ended December 31, 2019 and 2018:

	2019	2018
Average yield	2.8 %	2.4 %
Fuel recovery fees	—	0.6
Total price	2.8	3.0
Volume	(0.4)	0.4
Recycled commodities	(0.3)	(1.1)
Environmental Services	(0.3)	0.2
Total internal growth	1.8	2.5
Acquisitions / divestitures, net	0.8	1.5
Subtotal	2.6	4.0
Adoption of the new revenue recognition standard	—	(4.0)
Total	2.6 %	— %
Core price	4.7 %	3.9 %

Average yield is defined as revenue growth from the change in average price per unit of service, expressed as a percentage. Core price is defined as price increases to our customers and fees, excluding fuel recovery, net of price decreases to retain customers. We also measure changes in average yield and core price as a percentage of related-business revenue, defined as total revenue excluding recycled commodities and fuel recovery fees, to determine the effectiveness of our pricing strategies. Average yield as a percentage of related-business revenue was 2.9% and 2.5% 2019 and 2018, respectively. Core price as a percentage of related-business revenue was 5.0% and 4.2% for 2019 and 2018, respectively.

During 2019, we experienced the following changes in our revenue as compared to 2018:

- Average yield increased revenue by 2.8% due to positive pricing in all lines of business.

- The fuel recovery fee program, which mitigates our exposure to increases in fuel prices, increased revenue due to an increase in the total revenue subject to the fuel recovery fees. This increase was entirely offset by a decrease in fuel prices during 2019, compared to the same period in 2018.
- Volume decreased revenue by (0.4)% primarily due to declines in our residential and small-container collection lines of business. The volume declines in our collection lines of business were primarily due to certain non-regrettable losses during the year ended December 31, 2019 as compared to the same period in 2018. The volume decrease was partially offset by volume growth in our landfill and transfer station lines of business. The volume increase in our landfill line of business is primarily attributable to increased construction and demolition and solid waste volumes, which was partially offset by a decline in special waste volume.
- Recycling processing and commodity sales decreased revenue by (0.3)% primarily due to a decline in recycled commodity prices as compared to the same period in 2018. The average price for recycled commodities, excluding glass and organics for 2019 was $77 per ton compared to $104 per ton for 2018. During 2019 and 2018, 2.2 million and 2.4 million tons, excluding glass and organics, respectively, were sold after being processed in our recycling processing centers.

  Changing market demand for recycled commodities causes volatility in commodity prices. At current volumes and mix of materials, we believe a $10 per ton change in the price of recycled commodities would change annual revenue and operating income by approximately $13 million and $13 million, respectively.
- Environmental services revenue decreased by (0.3)% primarily due to a decline in upstream exploration and production drilling activity and increased competition in the Permian Basin.
- Acquisitions, net of divestitures, increased revenue by 0.8% due to our continued growth strategy of acquiring privately held solid waste, recycling and environmental services companies that complement our existing business platform.

Cost of Operations

Cost of operations includes labor and related benefits, which consists of salaries and wages, health and welfare benefits, incentive compensation and payroll taxes. It also includes transfer and disposal costs representing tipping fees paid to third party disposal facilities and transfer stations; maintenance and repairs relating to our vehicles, equipment and containers, including related labor and benefit costs; transportation and subcontractor costs, which include costs for independent haulers that transport our waste to disposal facilities and costs for local operators who provide waste handling services associated with our National Accounts in markets outside our standard operating areas; fuel, which includes the direct cost of fuel used by our vehicles, net of fuel tax credits; disposal fees and taxes, consisting of landfill taxes, host community fees and royalties; landfill operating costs, which includes financial assurance, leachate disposal, remediation charges and other landfill maintenance costs; risk management costs, which include insurance premiums and claims; cost of goods sold, which includes material costs paid to suppliers; and other, which includes expenses such as facility operating costs, equipment rent and gains or losses on sale of assets used in our operations.

The following table summarizes the major components of our cost of operations for the years ended December 31, 2019 and 2018 (in millions of dollars and as a percentage of revenue):

	2019		2018	
Labor and related benefits	$ 2,202.4	21.4 %	$ 2,144.3	21.3 %
Transfer and disposal costs	841.7	8.2	829.3	8.3
Maintenance and repairs	1,006.2	9.8	986.6	9.8
Transportation and subcontract costs	674.9	6.5	647.6	6.4
Fuel	347.9	3.4	391.4	3.9
Disposal fees and taxes	325.7	3.2	322.0	3.2
Landfill operating costs	244.7	2.4	241.6	2.4
Risk management	230.7	2.2	217.9	2.2
Other	440.6	4.2	409.3	4.1
Subtotal	6,314.8	61.3	6,190.0	61.6
Fire-damage related costs	7.6	0.1	—	—
Bridgeton insurance recovery	(24.0)	(0.2)	(40.0)	(0.4)
Total cost of operations	$ 6,298.4	61.2 %	$ 6,150.0	61.2 %

These cost categories may change from time to time and may not be comparable to similarly titled categories used by other companies. As such, you should take care when comparing our cost of operations by cost component to that of other companies.

Our cost of operations increased in aggregate dollars for the year ended December 31, 2019 compared to the same period in 2018 as a result of the following:

- Labor and related benefits increased in aggregate dollars due to higher hourly and salaried wages as a result of annual merit increases along with additional headcount attributable to acquisition-related growth.
- Transfer and disposal costs increased in aggregate dollars primarily due to an increase in third party disposal rates and volumes disposed at third party facilities. During both the years ended December 31, 2019 and 2018, approximately 68% of the total waste volume we collected was disposed at landfill sites that we own or operate (internalization).
- Maintenance and repairs expense remained relatively consistent year over year as a percentage of revenue.
- Transportation and subcontract costs increased primarily due to increased third party transportation rates and acquisition related activity.
- Fuel costs decreased due to a decline in both fuel prices and collection volumes as well as compressed natural gas (CNG) tax credits that were enacted in December 2019, retroactively effective to January 2018, and recognized during the three months ended December 31, 2019. The national average cost per gallon for diesel fuel in 2019 was $3.06 compared to $3.18 for 2018.

  At current consumption levels, we believe a twenty-cent per gallon change in the price of diesel fuel would change our fuel costs by approximately $26 million per year. Offsetting these changes in fuel expense would be changes in our fuel recovery fee charged to our customers. At current participation rates, we believe a twenty-cent per gallon change in the price of diesel fuel would change our fuel recovery fee by approximately $26 million per year.
- Landfill operating expenses increased in aggregate dollars due to increased leachate treatment, transportation and disposal costs, partially offset by certain favorable remediation adjustments.
- Risk management expenses increased primarily due to an increase in premiums for our current year programs in part due to our acquisition-related activity.
- Other costs of operations increased during 2019 primarily due to an increase in occupancy and facility costs. In addition, we recognized a gain on the sale of one of our operating facilities in 2018, which did not recur in 2019.
- During the three months ended December 31, 2019, we recognized $7.6 million of fire-related damage costs in our cost of operations that resulted from damage to our leased or owned property, plant and equipment in our Group 1 segment.
- During 2019 and 2018, we collected favorable insurance recoveries of $24.0 million and $40.0 million, respectively, related to our closed Bridgeton Landfill. As such, we recorded a reduction of remediation expenses in our consolidated statements of income for the applicable periods.

Depreciation, Amortization and Depletion of Property and Equipment

The following table summarizes depreciation, amortization and depletion of property and equipment for the years ended December 31, 2019 and 2018 (in millions of dollars and as a percentage of revenue):

	2019		2018	
Depreciation and amortization of property and equipment	$ 652.8	6.4 %	$ 643.5	6.4 %
Landfill depletion and amortization	333.0	3.2	325.6	3.2
Depreciation, amortization and depletion expense	$ 985.8	9.6 %	$ 969.1	9.6 %

Depreciation and amortization of property and equipment increased in aggregate dollars primarily due to additional assets acquired with our acquisitions, partially offset by the full depreciation of certain assets recognized in our 2008 acquisition of Allied Waste Industries, Inc.

Landfill depletion and amortization increased due to higher landfill disposal volumes primarily driven by increased construction and demolition and solid waste volumes coupled with an overall increase in our average depletion rate per ton.

Amortization of Other Intangible Assets

Expenses for amortization of other intangible assets were $20.4 million and $56.4 million for the years ended December 31, 2019 and 2018, respectively, or 0.2% of revenue for 2019 and 0.6% for 2018. Our other intangible assets primarily relate to customer relationships and, to a lesser extent, non-compete agreements. Amortization expense decreased primarily due to the full amortization of certain intangible assets recognized in our 2008 acquisition of Allied Waste Industries, Inc, partially offset by additional assets acquired in 2019.

Amortization of Other Assets

Expenses for amortization of other assets were $34.3 million, or 0.3% of revenue, for the year ended December 31, 2019, compared to $7.9 million, or 0.1% of revenue, for the same period in 2018. Our other assets primarily relate to the prepayment of fees and capitalized implementation costs associated with cloud-based hosting arrangements. Effective January 1, 2019, we adopted ASU 2018-15, *Intangibles—Goodwill and Other—Internal-Use Software (Subtopic 350-40) No. 2018-15 Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract* (ASU 2018-15) on a prospective basis. During the year ended December 31, 2018, we recognized $20.2 million of amortization related to the prepayment of fees as selling, general and administrative expenses. During 2019, we recognized $23.8 million of amortization related to the prepayment of similar fees in amortization of other assets.

Accretion Expense

Accretion expense was $81.9 million and $80.7 million, or 0.8% of revenue, for the years ended December 31, 2019 and 2018, respectively. Accretion expense has remained relatively unchanged as our asset retirement obligations remained relatively consistent period over period.

Selling, General and Administrative Expenses

Selling, general and administrative expenses include salaries, health and welfare benefits, and incentive compensation for corporate and field general management, field support functions, sales force, accounting and finance, legal, management information systems, and clerical and administrative departments. Other expenses include rent and office costs, fees for professional services provided by third parties, legal settlements, marketing, investor and community relations services, directors' and officers' insurance, general employee relocation, travel, entertainment and bank charges. Restructuring charges are excluded from selling, general and administrative expenses and are discussed separately.

The following table summarizes our selling, general and administrative expenses for the years ended December 31, 2019 and 2018 (in millions of dollars and as a percentage of revenue):

	2019		2018	
Salaries	$ 742.3	7.2 %	$ 702.2	7.0 %
Provision for doubtful accounts	34.0	0.3	34.8	0.3
Other	299.7	2.9	310.5	3.1
Subtotal	1,076.0	10.4	1,047.5	10.4
Acquisition integration and deal costs	6.3	0.1	—	—
Bridgeton insurance recovery related costs	9.6	0.1	12.0	0.1
Total selling, general and administrative expenses	$ 1,091.9	10.6 %	$ 1,059.5	10.5 %

These cost categories may change from time to time and may not be comparable to similarly titled categories used by other companies. As such, you should take care when comparing our selling, general and administrative expenses by cost component to those of other companies.

The most significant items affecting our selling, general and administrative expenses during 2019 as compared to 2018 are summarized below:

- Salaries increased primarily due to higher incentive pay and wages, benefits, and other payroll related items resulting from annual merit increases, excluding the $9.6 million of incremental costs we incurred attributable to the Bridgeton Landfill insurance recovery.
- Other selling, general, and administrative expenses decreased primarily due to our adoption of ASU 2018-15. During the year ended December 31, 2018, we recognized $20.2 million of amortization related to the prepayment of certain fees as selling, general, and administrative expenses. The amortization for prepayments of similar fees was recognized as amortization of other assets during 2019. The decrease was partially offset by unfavorable legal settlements and consulting fees.

- During 2019, we recognized $6.3 million of acquisition integration and deal costs as selling, general, and administrative expenses.

Gain on business divestitures and impairments, net

We strive to have a number one or number two market position in each of the markets we serve, or have a clear path on how we will achieve a leading market position over time. Where we cannot establish a leading market position, or where operations are not generating acceptable returns, we may decide to divest certain assets and reallocate resources to other markets. Asset or business divestitures could result in gains, losses or asset impairment charges that may be material to our results of operations in a given period.

During 2019 and 2018, we recorded a net gain on business divestitures, net of asset impairments of $14.7 million and $44.9 million, respectively.

Restructuring Charges

In January 2018, we eliminated certain positions following the consolidation of select back-office functions, including but not limited to the integration of our National Accounts support functions into our existing corporate support functions. These changes include a reduction in administrative staffing and the closure of certain office locations. During 2019, we incurred restructuring charges of $14.2 million that primarily related to the redesign of our back-office software systems. During 2018, we incurred restructuring charges of $26.4 million, that primarily consisted of severance and other employee termination benefits and the closure of offices with non-cancelable terms. We paid $10.6 million and $24.7 million during 2019 and 2018, respectively, related to these restructuring efforts.

Interest Expense

The following table provides the components of interest expense, including accretion of debt discounts and accretion of discounts primarily associated with environmental and risk insurance liabilities assumed in acquisitions (in millions of dollars):

	2019	2018
Interest expense on debt	$ 350.4	$ 349.4
Non-cash interest	48.8	41.2
Less: capitalized interest	(7.2)	(6.8)
Total interest expense	$ 392.0	$ 383.8

Effective January 1, 2019, we adopted ASU 2016-02, *Leases (Topic 842)* (ASC 842 or the new leasing standard) using the optional transition method prescribed by ASU 2018-11, *Leases (Topic 842): Targeted Improvements*. Under the new leasing standard, we will present variable lease costs associated with our finance leases as a component of non-cash interest expense. Variable lease costs are recognized in our consolidated statement of income in the period incurred. As such, we expect non-cash interest expense to fluctuate each period as the variable elements of these arrangements become known and the cost is incurred.

Total interest expense for 2019 increased compared to 2018 primarily due to the increase in variable lease payments made in accordance with certain of our finance leases. During 2019 and 2018, cash paid for interest, excluding net swap settlements for our fixed to floating interest rate swaps, was $346.8 million and $351.0 million, respectively.

Loss on Extinguishment of Debt

During 2019, we incurred no non-cash loss on the early extinguishment of debt. During 2018, we incurred a $0.3 million loss on the extinguishment of certain financing arrangements.

Income Taxes

Our provision for income taxes was $222.0 million and $283.3 million for 2019 and 2018, respectively. Our effective income tax rate was 17.1% and 21.5% for 2019 and 2018, respectively. We made income tax payments (net of refunds) of approximately $31 million and $210 million for 2019 and 2018, respectively. Cash paid for income taxes (net of refunds) for 2019 was favorably affected by 100% equipment deductions and tax credits related to our investment in solar energy assets.

During 2019, we acquired non-controlling interests in limited liability companies established to construct solar energy assets that qualified for investment tax credits under Section 48 of the Internal Revenue Code. We account for these investments using the equity method of accounting and recognize our share of income or loss and other reductions in the value of our investments in the *Loss from unconsolidated equity method investments* within our consolidated statements of income. For further discussion regarding our equity method accounting, see Note 3, *Business Acquisitions, Investments and Restructuring Charges*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K. Our 2019 tax provision reflects a benefit of approximately $84 million due to the tax credits related to these investments. In addition, our 2019 tax provision was reduced by $13.4 million due to the realization of additional federal and state benefits as well as adjustments to deferred taxes due to the completion of our 2018 tax returns and also reduced by $12.3 million due to excess tax benefits related to stock compensation.

Our 2018 tax provision was reduced by $12.1 million due to excess tax benefits, approximately $50 million related to the tax credits from our non-controlling interests in limited liability companies established to construct solar energy assets, and approximately $6 million due to the realization of tax credits and lower state rates due to changes in estimates following the completion of our 2017 tax returns.

We have deferred tax assets related to state net operating loss carryforwards with an estimated tax effect of approximately $111 million available as of December 31, 2019. These state net operating loss carryforwards expire at various times between 2019 and 2039. We believe that it is more likely than not that the benefit from some of our state net operating loss carryforwards will not be realized due to limitations on these loss carryforwards in certain states. In recognition of this risk, as of December 31, 2019, we have provided a valuation allowance of approximately $67 million.

As a result of the recent changes in U.S. tax law, as well as our ongoing efforts to streamline and maximize the efficiency of our tax footprint, we could further adjust our valuation allowance in a future period if there is sufficient evidence to support a conclusion that it is more likely than not that certain of the state net operating loss carryforwards, on which we currently provide a valuation allowance, would be realized.

Reportable Segments

Our senior management evaluates, oversees and manages the financial performance of our operations through two field groups, referred to as Group 1 and Group 2. Group 1 primarily consists of geographic areas located in the western United States, and Group 2 primarily consists of geographic areas located in the southeastern and mid-western United States, and the eastern seaboard of the United States.

The two field groups, Group 1 and Group 2, are presented below as our reportable segments, which provide integrated waste management services consisting of non-hazardous solid waste collection, transfer, recycling, disposal and environmental services.

Summarized financial information concerning our reportable segments for the years ended December 31, 2019 and 2018 is shown in the following table (in millions of dollars and as a percentage of revenue in the case of operating margin):

	Net Revenue	Depreciation, Amortization, Depletion and Accretion Before Adjustments for Asset Retirement Obligations	Adjustments to Amortization Expense for Asset Retirement Obligations	Depreciation, Amortization, Depletion and Accretion	Gain (Loss) on Disposition of Assets and Impairments, Net	Operating Income (Loss)	Operating Margin
2019:							
Group 1	$ 5,001.9	$ 506.0	$ (12.2)	$ 493.8	$ —	$ 1,234.6	24.7 %
Group 2	5,142.5	525.2	(21.5)	503.7	—	961.4	18.7 %
Corporate entities	155.0	102.1	22.8	124.9	14.7	(408.8)	
Total	$ 10,299.4	$ 1,133.3	$ (10.9)	$ 1,122.4	$ 14.7	$ 1,787.2	17.4 %
2018:							
Group 1	$ 4,812.0	$ 500.4	$ (15.5)	$ 484.9	$ —	$ 1,156.9	24.0 %
Group 2	5,071.0	511.5	(17.8)	493.7	—	938.5	18.5 %
Corporate entities	157.9	115.4	20.1	135.5	44.9	(359.6)	
Total	$ 10,040.9	$ 1,127.3	$ (13.2)	$ 1,114.1	$ 44.9	$ 1,735.8	17.3 %

Corporate entities include legal, tax, treasury, information technology, risk management, human resources, closed landfills and other administrative functions. National Accounts revenue included in corporate entities represents the portion of revenue generated from nationwide and regional contracts in markets outside our operating areas where the associated waste handling services are subcontracted to local operators. Consequently, substantially all of this revenue is offset with related subcontract costs, which are recorded in cost of operations.

Significant changes in the revenue and operating margins of our reportable segments for 2019 compared to 2018 are discussed below.

Group 1

Revenue for 2019 increased 3.9% from 2018 primarily due to an increase in average yield in all lines of business and increased volumes in our collection and transfer station lines of business. These increases were partially offset by volume declines in our landfill line of business, primarily attributable to special waste volumes.

Operating income for Group 1 increased from $1,156.9 million for 2018, or a 24.0% operating margin, to $1,234.6 million for 2019, or a 24.7% operating margin. The following cost categories impacted our operating income margin:

- Cost of operations favorably impacted operating income margin during 2019, primarily due to a decrease in labor and related benefits, maintenance and repairs expenses, and fuel costs as a result of CNG tax credits that were enacted in December 2019 and retroactively effective to January 2018, offset by an increase in transportation and subcontract costs and landfill operating expenses.
- Landfill depletion and amortization favorably impacted operating income margin during 2019, primarily due to a decline in overall landfill volumes. The decrease was partially offset by an increase in our overall depletion rate and favorable amortization adjustments related to our asset retirement obligations during 2018 compared to the adjustments recognized in 2019.

Group 2

Revenue for 2019 increased 1.4% from 2018 primarily due to positive pricing in all lines of business and an increase in volume in our landfill line of business, which was partially offset by volume declines in our collection and transfer station lines of business.

Operating income for Group 2 increased from $938.5 million for 2018, or a 18.5% operating margin, to $961.4 million for 2019, or an 18.7% operating margin. The following cost categories impacted our operating income margin:

- Cost of operations favorably impacted operating income margin during 2019, primarily due to declines in our transfer and disposal costs and fuel costs as a result of CNG tax credits that were enacted in December 2019 and retroactively effective to January 2018, partially offset by an increase in landfill operating expenses.
- Landfill depletion and amortization unfavorably impacted operating income margin during 2019, primarily due to an increase in our overall average depletion rate, partially offset by favorable amortization adjustments to our asset retirement obligations during 2019 compared to the adjustments recognized in 2018.

Corporate Entities

Operating loss in our Corporate Entities increased from $359.6 million for 2018 to $408.8 million for 2019. The operating loss for 2019 was unfavorably impacted by a lower gain on the disposition of assets in 2019 as compared to the same period in 2018. Additionally, we collected an insurance recovery of $24.0 million related to our closed Bridgeton Landfill during 2019, as compared to the insurance recovery $40.0 million recognized in the same period in 2018. These recoveries were offset by $9.6 million and $12.0 million, respectfully, of incremental costs attributable to the recoveries.

Landfill and Environmental Matters

Our landfill costs include daily operating expenses, costs of capital for cell development, costs for final capping, closure and post-closure, and the legal and administrative costs of ongoing environmental compliance. Daily operating expenses include leachate treatment, transportation and disposal costs, methane gas and groundwater monitoring and system maintenance costs, interim cap maintenance costs, and costs associated with applying daily cover materials. We expense all indirect landfill development costs as they are incurred. We use life cycle accounting and the units-of-consumption method to recognize certain direct landfill costs related to landfill development. In life cycle accounting, certain direct costs are capitalized and charged to depletion expense based on the consumption of cubic yards of available airspace. These costs include all costs to acquire and construct a site, including excavation, natural and synthetic liners, construction of leachate collection systems, installation of methane gas collection and monitoring systems, installation of groundwater monitoring wells, and other costs associated with acquiring and developing the site. Obligations associated with final capping, closure and post-closure are capitalized and amortized on a units-of-consumption basis as airspace is consumed.

Cost and airspace estimates are developed at least annually by engineers. Our operating and accounting personnel use these estimates to adjust the rates we use to expense capitalized costs. Changes in these estimates primarily relate to changes in costs, available airspace, inflation and applicable regulations. Changes in available airspace include changes in engineering estimates, changes in design and changes due to the addition of airspace lying in expansion areas that we believe have a probable

likelihood of being permitted. Changes in engineering estimates typically include modifications to the available disposal capacity of a landfill based on a refinement of the capacity calculations resulting from updated information.

Available Airspace

As of December 31, 2019 and 2018 we owned or operated 189 and 190 active solid waste landfills, respectively, with total available disposal capacity estimated to be 5.0 billion and 5.1 billion in-place cubic yards, respectively. For these landfills, the following table reflects changes in capacity and remaining capacity, as measured in cubic yards of airspace:

	Balance as of December 31, 2018	New Expansions Undertaken	Landfills Acquired, Net of Divestitures	Permits Granted / New Sites, Net of Closures	Airspace Consumed	Changes in Engineering Estimates	Balance as of December 31, 2019
Cubic yards (in millions):							
Permitted airspace	4,736.8	—	—	35.0	(81.5)	(17.3)	4,673.0
Probable expansion airspace	341.2	6.7	—	(18.1)	—	(8.1)	321.7
Total cubic yards (in millions)	5,078.0	6.7	—	16.9	(81.5)	(25.4)	4,994.7
Number of sites:							
Permitted airspace	190		—	(1)			189
Probable expansion airspace	12	2		(2)			12

	Balance as of December 31, 2017	New Expansions Undertaken	Landfills Acquired, Net of Divestitures	Permits Granted / New Sites, Net of Closures	Airspace Consumed	Changes in Engineering Estimates	Balance as of December 31, 2018
Cubic yards (in millions):							
Permitted airspace	4,735.7	—	4.8	85.1	(83.2)	(5.6)	4,736.8
Probable expansion airspace	350.3	57.3	—	(66.4)	—	—	341.2
Total cubic yards (in millions)	5,086.0	57.3	4.8	18.7	(83.2)	(5.6)	5,078.0
Number of sites:							
Permitted airspace	195		—	(5)			190
Probable expansion airspace	11	5		(4)			12

Total available disposal capacity represents the sum of estimated permitted airspace plus an estimate of probable expansion airspace. Engineers develop these estimates at least annually using information provided by annual aerial surveys. Before airspace included in an expansion area is determined to be probable expansion airspace and, therefore, included in our calculation of total available disposal capacity, it must meet all of our expansion criteria. See Note 2, *Summary of Significant Accounting Policies,* and Note 8, *Landfill and Environmental Costs*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K for further information. Also see our *Critical Accounting Judgments and Estimates* section of this Management's Discussion and Analysis of Financial Condition and Results of Operations.

As of December 31, 2019, 12 of our landfills met all of our criteria for including their probable expansion airspace in their total available disposal capacity. At projected annual volumes, these 12 landfills have an estimated remaining average site life of 57 years, including probable expansion airspace. The average estimated remaining life of all of our landfills is 62 years. We have other expansion opportunities that are not included in our total available airspace because they do not meet all of our criteria for treatment as probable expansion airspace.

The following table reflects the estimated operating lives of our active landfill sites based on available and probable disposal capacity using current annual volumes as of December 31, 2019:

	Number of Sites without Probable Expansion Airspace	Number of Sites with Probable Expansion Airspace	Total Sites	Percent of Total
0 to 5 years	11	—	11	5.8 %
6 to 10 years	20	—	20	10.6
11 to 20 years	30	2	32	16.9
21 to 40 years	50	3	53	28.0
41+ years	66	7	73	38.7
Total	177	12	189	100.0 %

Final Capping, Closure and Post-Closure Costs

As of December 31, 2019, accrued final capping, closure and post-closure costs were $1,335.6 million, of which $75.8 million were current and $1,259.8 million were long-term as reflected in our consolidated balance sheets in accrued landfill and environmental costs included in Item 8 of this Form 10-K.

Remediation and Other Charges for Landfill Matters

It is reasonably possible that we will need to adjust our accrued landfill and environmental liabilities to reflect the effects of new or additional information, to the extent that such information impacts the costs, timing or duration of the required actions. Future changes in our estimates of the costs, timing or duration of the required actions could have a material adverse effect on our consolidated financial position, results of operations and cash flows.

During 2019 and 2018, we collected insurance recoveries of $24.0 million and $40.0 million, respectively, related to our closed Bridgeton Landfill in Missouri. As such, we recorded a reduction of remediation expenses included in our cost of operations during the years ended December 31, 2019 and 2018.

For a description of our significant remediation matters, see Note 8, *Landfill and Environmental Costs,* of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

Investment in Landfills

As of December 31, 2019, we expect to spend an estimated additional $9.5 billion on existing landfills, primarily related to cell construction and environmental structures, over their remaining lives. Our total expected investment, excluding non-depletable land, estimated to be $13.4 billion, or $2.68 per cubic yard, is used in determining our depletion and amortization expense based on airspace consumed using the units-of-consumption method.

The following table reflects our future expected investment as of December 31, 2019 (in millions):

	Balance as of December 31, 2019	Expected Future Investment	Total Expected Investment
Non-depletable landfill land	$ 170.5	$ —	$ 170.5
Landfill development costs	7,474.7	9,494.3	16,969.0
Construction-in-progress - landfill	366.8	—	366.8
Accumulated depletion and amortization	(3,968.6)	—	(3,968.6)
Net investment in landfill land and development costs	$ 4,043.4	$ 9,494.3	$ 13,537.7

The following table reflects our net investment in our landfills, excluding non-depletable land, and our depletion, amortization and accretion expense for the years ended December 31, 2019 and 2018:

	2019	2018
Number of landfills owned or operated	189	190
Net investment, excluding non-depletable land (in millions)	$ 3,872.9	$ 3,758.0
Total estimated available disposal capacity (in millions of cubic yards)	4,994.7	5,078.0
Net investment per cubic yard	$ 0.78	$ 0.74
Landfill depletion and amortization expense (in millions)	$ 333.0	$ 325.6
Accretion expense (in millions)	81.9	80.7
	414.9	406.3
Airspace consumed (in millions of cubic yards)	81.5	83.2
Depletion, amortization and accretion expense per cubic yard of airspace consumed	$ 5.09	$ 4.88

During 2019 and 2018, our average compaction rate was approximately 2,000 pounds per cubic yard based on a three-year historical moving average.

Property and Equipment

The following tables reflect the activity in our property and equipment accounts for the years ended December 31, 2019 and 2018 (in millions of dollars):

	Gross Property and Equipment							
	Balance as of December 31, 2018	Capital Additions	Retirements	Acquisitions, Net of Divestitures	Non-Cash Additions for Asset Retirement Obligations	Adjustments for Asset Retirement Obligations	Impairments, Transfers and Other Adjustments	Balance as of December 31, 2019
Land	$ 443.6	$ 2.6	$ (1.9)	$ 3.8	$ —	$ —	$ 0.2	$ 448.3
Non-depletable landfill land	167.5	5.0	(2.1)	0.4	—	—	(0.3)	170.5
Landfill development costs	7,106.0	2.9	(0.1)	8.6	43.5	(4.9)	318.7	7,474.7
Vehicles and equipment [1]	7,377.3	679.2	(400.2)	109.9	—	—	(0.2)	7,766.0
Buildings and improvements	1,279.8	15.1	(10.1)	1.1	1.3	—	55.4	1,342.6
Construction-in-progress - landfill	287.9	399.2	—	—	—	—	(320.3)	366.8
Construction-in-progress - other [1]	89.9	113.6	—	—	—	—	(115.8)	87.7
Total	$ 16,752.0	$ 1,217.6	$ (414.4)	$ 123.8	$ 44.8	$ (4.9)	$ (62.3)	$ 17,656.6

	Accumulated Depreciation, Amortization and Depletion						
	Balance as of December 31, 2018	Additions Charged to Expense	Retirements	Acquisitions, Net of Divestitures	Adjustments for Asset Retirement Obligations	Impairments, Transfers and Other Adjustments	Balance as of December 31, 2019
Landfill development costs	$ (3,635.9)	$ (343.9)	$ —	$ —	$ 11.2	$ —	$ (3,968.6)
Vehicles and equipment [1]	(4,571.1)	(592.9)	390.7	18.2	—	26.9	(4,728.2)
Buildings and improvements	(524.9)	(62.3)	7.7	3.6	—	(0.4)	(576.3)
Total	$ (8,731.9)	$ (999.1)	$ 398.4	$ 21.8	$ 11.2	$ 26.5	$ (9,273.1)

[1] In accordance with our adoption of ASU 2018-15, capitalized implementation costs for cloud-based hosting arrangements were transferred out of property and equipment, net and are now presented as a component of other assets on our consolidated balance sheets as of December 31, 2019.

	Gross Property and Equipment							
	Balance as of December 31, 2017	Capital Additions	Retirements	Acquisitions, Net of Divestitures	Non-Cash Additions for Asset Retirement Obligations	Adjustments for Asset Retirement Obligations	Impairments, Transfers and Other Adjustments	Balance as of December 31, 2018
Land	$ 433.2	$ 3.6	$ (3.5)	$ 10.7	$ —	$ —	$ (0.4)	$ 443.6
Non-depletable landfill land	166.9	0.2	(0.7)	(0.1)	—	—	1.2	167.5
Landfill development costs	6,757.3	4.8	—	15.4	43.5	(17.5)	302.5	7,106.0
Vehicles and equipment	6,954.3	665.0	(274.6)	0.3	—	—	32.3	7,377.3
Buildings and improvements	1,221.5	17.4	(4.4)	5.7	0.1	—	39.5	1,279.8
Construction-in-progress - landfill	233.2	356.4	—	—	—	—	(301.7)	287.9
Construction-in-progress - other	55.7	111.6	—	0.2	—	—	(77.6)	89.9
Total	$ 15,822.1	$ 1,159.0	$ (283.2)	$ 32.2	$ 43.6	$ (17.5)	$ (4.2)	$ 16,752.0

	Accumulated Depreciation, Amortization and Depletion						
	Balance as of December 31, 2017	Additions Charged to Expense	Retirements	Acquisitions, Net of Divestitures	Adjustments for Asset Retirement Obligations	Impairments, Transfers and Other Adjustments	Balance as of December 31, 2018
Landfill development costs	$ (3,317.3)	$ (338.8)	$ —	$ 7.0	$ 13.2	$ —	$ (3,635.9)
Vehicles and equipment	(4,259.7)	(591.5)	267.3	12.8	—	—	(4,571.1)
Buildings and improvements	(467.7)	(61.0)	2.4	1.4	—	—	(524.9)
Total	$ (8,044.7)	$ (991.3)	$ 269.7	$ 21.2	$ 13.2	$ —	$ (8,731.9)

Liquidity and Capital Resources

Cash and Cash Equivalents

The following is a summary of our cash and cash equivalents and restricted cash and marketable securities balances as of December 31:

	2019	2018
Cash and cash equivalents	$ 47.1	$ 70.5
Restricted cash and marketable securities	179.4	108.1
Less: restricted marketable securities	(49.1)	(45.3)
Cash, cash equivalents, restricted cash and restricted cash equivalents	$ 177.4	$ 133.3

Our restricted cash and marketable securities include, among other things, restricted cash and marketable securities pledged to regulatory agencies and governmental entities as financial guarantees of our performance under certain collection, landfill and transfer station contracts and permits, and relating to our final capping, closure and post-closure obligations at our landfills, restricted cash and marketable securities related to our insurance obligations, and restricted cash related to a payment for a certain maturing tax-exempt financing.

The following table summarizes our restricted cash and marketable securities as of December 31:

	2019	2018
Payment for maturing tax-exempt financing	$ 49.4	$ —
Capping, closure and post-closure obligations	30.6	29.5
Insurance	99.4	78.6
Total restricted cash and marketable securities	$ 179.4	$ 108.1

Intended Uses of Cash

We intend to use excess cash on hand and cash from operating activities to fund capital expenditures, acquisitions, dividend payments, share repurchases and debt repayments. Debt repayments may include purchases of our outstanding indebtedness in the secondary market or otherwise. We believe that our excess cash, cash from operating activities and our availability to draw from our credit facilities provide us with sufficient financial resources to meet our anticipated capital requirements and maturing obligations as they come due.

We may choose to voluntarily retire certain portions of our outstanding debt before their maturity dates using cash from operations or additional borrowings. We may also explore opportunities in the capital markets to fund redemptions should market conditions be favorable. Early extinguishment of debt will result in an impairment charge in the period in which the debt is repaid. The loss on early extinguishment of debt relates to premiums paid to effectuate the repurchase and the relative portion of unamortized note discounts and debt issue costs.

Summary of Cash Flow Activity

The major components of changes in cash flows for 2019 and 2018 are discussed in the following paragraphs. The following table summarizes our cash flow from operating activities, investing activities and financing activities for the years ended December 31, 2019 and 2018 (in millions of dollars):

	2019	2018
Net cash provided by operating activities	$ 2,352.1	$ 2,242.8
Net cash used in investing activities	$ (1,719.0)	$ (1,229.1)
Net cash used in financing activities	$ (589.0)	$ (1,059.5)

Cash Flows Provided by Operating Activities

Changes in assets and liabilities, net of effects from business acquisitions and divestitures, decreased our cash flow from operations by $227.6 million in 2019, compared to a decrease of $216.3 million in 2018, primarily as a result of the following:

- Our accounts receivable, exclusive of the change in allowance for doubtful accounts and customer credits, increased $38.3 million during 2019 primarily due to growth in our revenue, compared to a $29.6 million increase in 2018. As of December 31, 2019, our days sales outstanding were 39.8, or 27.9 days net of deferred revenue, compared to 39.7, or 27.5 days net of deferred revenue, as of December 31, 2018.
- Our prepaid expenses and other assets increased $109.7 million in 2019 compared to an increase of $152.5 million in 2018, primarily due to the timing of our estimated tax payments. Cash paid for income taxes (net of refunds) was approximately $31 million and $210 million for 2019 and 2018, respectively. Cash paid for income taxes (net of refunds) for 2019 was favorably affected by 100% equipment deductions, primarily attributable to capital expenditures and acquisition-related activity during the year, and tax credits related to our investments in solar energy assets. Income taxes paid (net of refunds) in 2018 was favorably affected by the Tax Act and tax credits related to our investments in solar energy assets.
- Our accounts payable increased $6.4 million during 2019 compared to an increase of $85.9 million during 2018, due to the timing of payments.
- Cash paid for capping, closure and post-closure obligations was $6.3 million higher during 2019 compared to 2018. The increase in cash paid for capping, closure and post-closure obligations is primarily due to the timing of capping and post-closure payments at certain of our landfill sites.
- Cash paid for remediation obligations was $0.3 million higher during 2019 compared to 2018 primarily due to the timing of obligations.

In addition, cash paid for interest was $346.8 million and $351.0 million, excluding net swap settlements for our fixed to floating interest rate swaps, for 2019 and 2018, respectively.

We use cash flows from operations to fund capital expenditures, acquisitions, dividend payments, share repurchases and debt repayments.

Cash Flows Used in Investing Activities

The most significant items affecting the comparison of our cash flows used in investing activities for 2019 and 2018 are summarized below:

- Capital expenditures during 2019 were $1,207.1 million as compared to $1,071.8 million for 2018. During 2019, we entered into finance leases with future lease liabilities of $15.9 million, including finance leases acquired in business combination acquisitions.
- Proceeds from sales of property and equipment during 2019 were $21.7 million as compared to $31.6 million for 2018.
- During 2019 and 2018, we used $575.1 million and $277.3 million, respectively, for acquisitions and investments, net of cash acquired. During 2019 and 2018, we received $42.8 million and $89.2 million for business divestitures, respectively.

We intend to finance capital expenditures and acquisitions through cash on hand, restricted cash held for capital expenditures, cash flows from operations, our revolving credit facilities, and tax-exempt bonds and other financings. We expect to primarily use cash for consideration paid for future business acquisitions.

Cash Flows Used in Financing Activities

The most significant items affecting the comparison of our cash flows used in financing activities for 2019 and 2018 are summarized below:

- During 2019, we issued $900.0 million of senior notes for cash proceeds, net of discounts and fees of $891.1 million. During 2018, we issued $800.0 million of senior notes for cash proceeds, net of discounts and fees of $781.8 million. Net payments of notes payable and long-term debt were $581.4 million during 2019, compared to net payments of $653.1 million in 2018. For a more detailed discussion, see the *Financial Condition* section of this Management's Discussion and Analysis of Financial Condition and Results of Operations.
- During 2019, we repurchased 4.9 million shares of our stock for $399.4 million. During 2018, we repurchased 10.7 million shares of our stock for $736.9 million. In October 2017, our Board of Directors added $2.0 billion to the existing share repurchase authorization. As of December 31, 2019, there was $704.6 million remaining under our share repurchase authorization.
- In July 2019, our Board of Directors approved an increase in our quarterly dividend to $0.405 per share. Dividends paid were $491.2 million and $461.8 million for 2019 and 2018, respectively.
- During 2019 and 2018, cash paid for purchase price holdback releases related to acquisitions was $17.2 million and $12.1 million, respectively.

Financial Condition

Debt Obligations

Changes in our outstanding principal debt balances from December 31, 2018 to December 31, 2019 were primarily attributable to debt cash borrowings, net of principal debt payments, of $333.6 million and new finance leases, which increased our debt obligations by $15.9 million.

As of December 31, 2019, we had $930.7 million of principal debt maturing within the next 12 months, which includes certain senior notes, variable rate tax-exempt financings and finance lease obligations. All of our tax-exempt financings are remarketed quarterly by remarketing agents to effectively maintain a variable yield. The holders of the bonds can put them back to the remarketing agents at the end of each interest period. To date, the remarketing agents have been able to remarket our variable rate unsecured tax-exempt bonds and we currently expect future remarketings to be successful. However, if the remarketing agent is unable to remarket our bonds, the remarketing agent can put the bonds to us. In the event of a failed remarketing, we currently have availability under our $2.25 billion unsecured revolving credit facility to fund these bonds until they are remarketed successfully. Accordingly, we have classified these borrowings as long-term in our consolidated balance sheet as of December 31, 2019.

For further discussion of the components of our overall debt, see Note 9, *Debt*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

Credit Facilities

In June 2018, we entered into a $2.25 billion unsecured revolving credit facility (the Credit Facility), which replaced our $1.0 billion and $1.25 billion unsecured credit facilities that would have matured in May 2021 and June 2019, respectively (the

Replaced Credit Facilities). The Credit Facility matures in June 2023. We may request two one-year extensions of the maturity date but none of the lenders are committed to participate in such extension. The Credit Facility also includes a feature that allows us to increase availability, at our option, by an aggregate amount of up to $1.0 billion through increased commitments from existing lenders or the addition of new lenders. At our option, borrowings under the Credit Facility bear interest at a Base Rate, or a Eurodollar Rate, plus an applicable margin based on our Debt Ratings (all as defined in the Credit Facility agreement).

The Credit Facility requires us to comply with financial and other covenants. To the extent we are not in compliance with these covenants, we cannot pay dividends or repurchase common stock. Compliance with covenants also is a condition for any incremental borrowings under our Credit Facility, and failure to meet these covenants would enable the lenders to require repayment of any outstanding loans (which would adversely affect our liquidity). As of December 31, 2019, our EBITDA to interest ratio was 7.54 compared to the 3.00 minimum required by the covenants, and our total debt to EBITDA ratio was 2.99 compared to the 3.50 maximum allowed by the covenants. As of December 31, 2019, we were in compliance with the covenants under our Credit Facility, and we expect to be in compliance throughout 2020.

EBITDA, which is a non-U.S. GAAP measure, is calculated as defined in our Credit Facility agreement. In this context, EBITDA is used solely to provide information regarding the extent to which we are in compliance with debt covenants and is not comparable to EBITDA used by other companies or used by us for other purposes.

Failure to comply with the financial and other covenants under our Credit Facility, as well as the occurrence of certain material adverse events, would constitute defaults and would allow the lenders under our Credit Facility to accelerate the maturity of all indebtedness under the related agreement. This could also have an adverse effect on the availability of financial assurances. In addition, maturity acceleration on our Credit Facility constitutes an event of default under our other debt instruments, including our senior notes, and, therefore, our senior notes would also be subject to acceleration of maturity. If such acceleration were to occur, we would not have sufficient liquidity available to repay the indebtedness. We would likely have to seek an amendment under our Credit Facility for relief from the financial covenants or repay the debt with proceeds from the issuance of new debt or equity, or asset sales, if necessary. We may be unable to amend our Credit Facility or raise sufficient capital to repay such obligations in the event the maturity is accelerated.

Availability under our Credit Facility totaled $1,696.9 million and $1,694.1 million as of December 31, 2019 and 2018, respectively. The Credit Facility can be used for working capital, capital expenditures, acquisitions, letters of credit and other general corporate purposes. As of December 31, 2019 and 2018, we had $184.4 million and $159.0 million of borrowings under our Credit Facility, respectively. We had $351.4 million and $379.6 million of letters of credit outstanding under our Credit Facility as of December 31, 2019 and 2018, respectively.

We also have an Uncommitted Credit Facility, which bears interest at LIBOR, plus an applicable margin. We can use borrowings under the Uncommitted Credit Facility for working capital and other general corporate purposes. The agreements governing our Uncommitted Credit Facility require us to comply with covenants. The Uncommitted Credit Facility may be terminated by either party at any time. As of December 31, 2019 and 2018, we had $11.6 million and $33.4 million of borrowings under our Uncommitted Credit Facility, respectively.

Senior Notes and Debentures

As of December 31, 2019, we had $7,257.0 million of unsecured senior notes and debentures outstanding with maturities ranging from 2020 to 2041. As of December 31, 2018, we had $6,998.8 million of unsecured senior notes and debentures outstanding with maturities ranging from 2019 to 2041. Our senior notes are general senior unsecured obligations.

During 2019, we issued $900.0 million of 2.500% senior notes due 2024 (the 2.500% Notes). We used the net proceeds from the 2.500% Notes to repay $650.0 million of 5.500% senior notes that matured in September 2019. The remaining proceeds were used to repay amounts outstanding under our unsecured credit facilities as well as for general corporate purposes.

During 2018, we issued $800.0 million of 3.950% senior notes due 2028 (the 3.950% Notes). We used the net proceeds from the 3.950% Notes to repay $700.0 million of 3.800% senior notes that matured in May 2018, and the remaining proceeds were used to repay borrowings under our Replaced Credit Facilities. In connection with this offering, we terminated interest rate lock agreements with a notional value of $600.0 million resulting in net proceeds of $31.1 million. The proceeds will amortize over the term of the 3.950% Notes using the effective interest method. There was no ineffectiveness recognized in the termination of these cash flow hedges.

Interest Rate Swap and Lock Agreements

During the second half of 2013, we entered into various interest rate swap agreements relative to our 4.750% fixed rate senior notes due in May 2023. The goal was to reduce overall borrowing costs and rebalance our debt portfolio's ratio of fixed to floating interest rates. As of December 31, 2019, these swap agreements have a total notional value of $300.0 million and require us to pay interest at floating rates based on changes in LIBOR, and receive interest at a fixed rate of 4.750%. For 2019

and 2018, we recognized $1.0 million and $1.9 million, respectively, as offsetting benefits to our interest expense from these swap agreements, which mature in May 2023.

As of December 31, 2019, our interest rate lock agreements had an aggregate notional value of $575.0 million with fixed interest rates ranging from 1.330% to 3.000%. As of December 31, 2018 our interest rate lock agreements had an aggregate notional value of $725.0 million with fixed interest rates ranging from 1.900% to 3.250%. We entered into these transactions to manage exposure to fluctuations in interest rates in anticipation of planned future issuances of senior notes in 2019 through 2021. Upon the expected issuance of the senior notes, we will terminate the interest rate locks and settle with our counterparties. The aggregate fair value of the outstanding interest rate locks as of December 31, 2019 were assets of $3.6 million, which were recorded in prepaid expenses and other current assets in our consolidated balance sheet, and liabilities of $15.7 million, which were recorded in other accrued liabilities and other long-term liabilities in our consolidated balance sheet. The aggregate fair value of the outstanding interest rate locks as of December 31, 2018 was $10.3 million and was recorded in other long-term assets in our consolidated balance sheet.

See Note 18, *Financial Instruments*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K for further detail regarding the effect of our fair value and cash flow hedging on interest expense.

Derivative Contracts

Contemporaneously with the issuance of our 2.500% Notes in August 2019, we amended interest rate lock agreements with a notional value of $375.0 million, extending the mandatory maturity date from 2019 to 2024 and dedesignated them as cash flow hedges (the Extended Interest Rate Swaps). There was no ineffectiveness recognized in the termination of these cash flow hedges. In addition, we entered into an offsetting interest rate swap to offset future exposures to fair value fluctuations of the Extended Interest Rate Swaps (the Offsetting Interest Rate Swaps). The fair value of these free standing derivatives was determined using standard valuation models with assumptions about interest rates being based on those observed in underlying markets (Level 2 in the fair value hierarchy).

As of December 31, 2019, the fair value of the Extended Interest Rate Swaps was a liability of $22.2 million which was included in other long-term liabilities in our consolidated balance sheet, and the fair value of the Offsetting Interest Rate Swaps was an asset of $2.9 million and was included in other assets in our consolidated balance sheet. For the year ended December 31, 2019, we recognized a loss of $3.4 million on the change in fair value of the Extended Interest Rate Swaps, with an offsetting gain of $2.9 million on the Offsetting Interest Rate Swaps. The change in fair value was recorded directly in earnings as an adjustment to interest expense in our consolidated statements of income.

Tax-Exempt Financings

As of December 31, 2019, we had $1,116.2 million of certain fixed and variable rate tax-exempt financings outstanding with maturities ranging from 2020 to 2049. As of December 31, 2018, we had $1,036.8 million of certain fixed and variable rate tax-exempt financings outstanding with maturities ranging from 2019 to 2044.

During the year ended December 31, 2019, we refinanced $35.0 million of tax-exempt financings and issued $30.0 million of new tax-exempt financings. In addition, during the three months ended December 31, 2019, we issued $50.0 million of variable-rate tax-exempt debt. The proceeds from the issuance were used to fund qualifying landfill-related capital expenditures in the state of California.

Finance Leases

We had finance lease liabilities of $119.3 million and $109.5 million as of December 31, 2019 and 2018, respectively, with maturities ranging from 2020 to 2049 and 2019 to 2046, respectively.

Contractual Obligations

The following table summarizes our estimated contractual obligations as of December 31, 2019 (in millions):

Year Ending December 31,	Operating Leases	Maturities of Notes Payable, Finance Leases and Other Long-Term Debt	Scheduled Interest Payment Obligations	Final Capping, Closure and Post-Closure	Remediation	Unconditional Purchase Commitments	Total
2020	$ 44.5	$ 930.7	$ 326.9	$ 75.8	$ 56.8	$ 132.5	$ 1,567.2
2021	40.4	770.2	287.0	52.4	67.0	90.9	1,307.9
2022	35.3	859.1	252.8	69.8	68.9	62.8	1,348.7
2023	33.9	922.6	215.3	72.8	61.4	39.5	1,345.5
2024	29.7	928.0	179.1	87.1	32.7	38.1	1,294.7
Thereafter	132.2	4,378.0	1,360.6	6,267.9	399.7	266.1	12,804.5
Total	$ 316.0	$ 8,788.6	$ 2,621.7	$ 6,625.8	$ 686.5	$ 629.9	$ 19,668.5

Scheduled interest payment obligations in the above table were calculated using stated coupon rates for fixed rate debt and interest rates applicable as of December 31, 2019 for variable rate debt. The effect of our outstanding interest rate swaps on the interest payments of our 4.750% fixed rate senior notes due in May 2023 is also included based on the floating rates in effect as of December 31, 2019.

The estimated remaining final capping, closure and post-closure and remediation expenditures presented above are not inflated or discounted and reflect the estimated future payments for liabilities incurred and recorded as of December 31, 2019 and for liabilities yet to be incurred over the remaining life of our landfills.

Unconditional purchase commitments consist primarily of (1) disposal related agreements that include fixed or minimum royalty payments, host agreements and take-or-pay and put-or-pay agreements and (2) other obligations including committed capital expenditures and consulting service agreements.

Financial Assurance

We must provide financial assurance to governmental agencies and a variety of other entities under applicable environmental regulations relating to our landfill operations for capping, closure and post-closure costs, and related to our performance under certain collection, landfill and transfer station contracts. We satisfy these financial assurance requirements by providing surety bonds, letters of credit, or insurance policies (Financial Assurance Instruments), or trust deposits, which are included in restricted cash and marketable securities and other assets in our consolidated balance sheets. The amount of the financial assurance requirements for capping, closure and post-closure costs is determined by applicable state environmental regulations. The financial assurance requirements for capping, closure and post-closure costs may be associated with a portion of the landfill or the entire landfill. Generally, states require a third-party engineering specialist to determine the estimated capping, closure and post-closure costs that are used to determine the required amount of financial assurance for a landfill. The amount of financial assurance required can, and generally will, differ from the obligation determined and recorded under U.S. GAAP. The amount of the financial assurance requirements related to contract performance varies by contract. Additionally, we must provide financial assurance for our insurance program and collateral for certain performance obligations. We do not expect a material increase in financial assurance requirements during 2020, although the mix of Financial Assurance Instruments may change.

These Financial Assurance Instruments are issued in the normal course of business and are not classified as indebtedness. Because we currently have no liability for the Financial Assurance Instruments, they are not reflected in our consolidated balance sheets; however, we record capping, closure and post-closure liabilities and insurance liabilities as they are incurred.

Off-Balance Sheet Arrangements

We have no off-balance sheet debt or similar obligations, other than short-term operating leases and financial assurances, which are not classified as debt. We have no transactions or obligations with related parties that are not disclosed, consolidated into or reflected in our reported financial position or results of operations. We have not guaranteed any third-party debt.

Contingencies

For a description of our commitments and contingencies, see Note 8, *Landfill and Environmental Costs*, Note 11, *Income Taxes,* and Note 19, *Commitments and Contingencies*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

Critical Accounting Judgments and Estimates

Our consolidated financial statements have been prepared in accordance with U.S. GAAP and necessarily include certain estimates and judgments made by management. The following is a list of accounting policies that we believe are the most critical in understanding our consolidated financial position, results of operations and cash flows and that may require management to make subjective or complex judgments about matters that are inherently uncertain. Such critical accounting policies, estimates and judgments are applicable to all of our operating segments.

We have noted examples of the residual accounting and business risks inherent in the accounting for these areas. Residual accounting and business risks are defined as the inherent risks that we face after the application of our policies and processes that are generally outside of our control or ability to forecast.

Landfill Accounting

Landfill operating costs are treated as period expenses and are not discussed further in this section.

Our landfill assets and liabilities fall into the following two categories, each of which requires accounting judgments and estimates:

- Landfill development costs that are capitalized as an asset.
- Landfill retirement obligations relating to our capping, closure and post-closure liabilities that result in a corresponding landfill retirement asset.

We use life-cycle accounting and the units-of-consumption method to recognize landfill development costs over the life of the site. In life-cycle accounting, all current and future capitalized costs to acquire and construct a site are calculated, and charged to expense based on the consumption of cubic yards of available airspace. Obligations associated with final capping, closure and post-closure are also capitalized, and amortized on a units-of-consumption basis as airspace is consumed. Cost and airspace estimates are developed at least annually by engineers.

Landfill Development Costs

Site permits. To develop, construct and operate a landfill, we must obtain permits from various regulatory agencies at the local, state and federal levels. The permitting process requires an initial site study to determine whether the location is feasible for landfill operations. The initial studies are reviewed by our environmental management group and then submitted to the regulatory agencies for approval. During the development stage we capitalize certain costs that we incur after site selection but before the receipt of all required permits if we believe that it is probable that the site will be permitted.

Residual risks:

- Changes in legislative or regulatory requirements may cause changes to the landfill site permitting process. These changes could make it more difficult and costly to obtain and maintain a landfill permit.
- Studies performed could be inaccurate, which could result in the denial or revocation of a permit and changes to accounting assumptions. Conditions could exist that were not identified in the study, which may make the location not feasible for a landfill and could result in the denial of a permit. Denial or revocation of a permit could impair the recorded value of the landfill asset.
- Actions by neighboring parties, private citizen groups or others to oppose our efforts to obtain, maintain or expand permits could result in denial, revocation or suspension of a permit, which could adversely impact the economic viability of the landfill and could impair the recorded value of the landfill. As a result of opposition to our obtaining a permit, improved technical information as a project progresses, or changes in the anticipated economics associated with a project, we may decide to reduce the scope of, or abandon, a project, which could result in an asset impairment.

Technical landfill design. Upon receipt of initial regulatory approval, technical landfill designs are prepared. The technical designs, which include the detailed specifications to develop and construct all components of the landfill including the types and quantities of materials that will be required, are reviewed by our environmental management group. The technical designs are submitted to the regulatory agencies for approval. Upon approval of the technical designs, the regulatory agencies issue permits to develop and operate the landfill.

Residual risks:

- Changes in legislative or regulatory requirements may require changes in the landfill technical designs. These changes could make it more difficult and costly to meet new design standards.
- Technical design requirements, as approved, may need modifications at some future point in time.

- Technical designs could be inaccurate and could result in increased construction costs, difficulty in obtaining a permit or the use of rates to recognize the amortization of landfill development costs and asset retirement obligations that are not appropriate.

Permitted and probable landfill disposal capacity. Included in the technical designs are factors that determine the ultimate disposal capacity of the landfill. These factors include the area over which the landfill will be developed, such as the depth of excavation, the height of the landfill elevation and the angle of the side-slope construction. The disposal capacity of the landfill is calculated in cubic yards. This measurement of volume is then converted to a disposal capacity expressed in tons based on a site-specific expected density to be achieved over the remaining operating life of the landfill.

Residual risks:

- Estimates of future disposal capacity may change as a result of changes in legislative or regulatory design requirements.
- The density of waste may vary due to variations in operating conditions, including waste compaction practices, site design, climate and the nature of the waste.
- Capacity is defined in cubic yards but waste received is measured in tons. The number of tons per cubic yard varies by type of waste and our rate of compaction.

Development costs. The types of costs that are detailed in the technical design specifications generally include excavation, natural and synthetic liners, construction of leachate collection systems, installation of methane gas collection systems and monitoring probes, installation of groundwater monitoring wells, construction of leachate management facilities and other costs associated with the development of the site. We review the adequacy of our cost estimates on an annual basis by comparing estimated costs with third-party bids or contractual arrangements, reviewing the changes in year-over-year cost estimates for reasonableness, and comparing our resulting development cost per acre with prior period costs. These development costs, together with any costs incurred to acquire, design and permit the landfill, including capitalized interest, are recorded to the landfill asset on the balance sheet as incurred.

Residual risk:

- Actual future costs of construction materials and third-party labor could differ from the costs we have estimated because of the level of demand and the availability of the required materials and labor. Technical designs could be altered due to unexpected operating conditions, regulatory changes or legislative changes.

Landfill development asset amortization. To match the expense related to the landfill asset with the revenue generated by the landfill operations, we amortize the landfill development asset over its operating life on a per-ton basis as waste is accepted at the landfill. The landfill asset is fully amortized at the end of a landfill's operating life. The per-ton rate is calculated by dividing the sum of the landfill development asset net book value plus estimated future development costs (as described above) for the landfill, by the landfill's estimated remaining disposal capacity. The expected future development costs are not inflated or discounted, but rather expressed in nominal dollars. This rate is applied to each ton accepted at the landfill to arrive at amortization expense for the period.

Amortization rates are influenced by the original cost basis of the landfill, including acquisition costs, which in turn is determined by geographic location and market values. We secure significant landfill assets through business acquisitions and value them at the time of acquisition based on fair value. Amortization rates are also influenced by site-specific engineering and cost factors.

Residual risk:

- Changes in our future development cost estimates or our disposal capacity will normally result in a change in our amortization rates and will impact amortization expense prospectively. An unexpected significant increase in estimated costs or reduction in disposal capacity could affect the ongoing economic viability of the landfill and result in asset impairment.

On at least an annual basis, we update the estimates of future development costs and remaining disposal capacity for each landfill. These costs and disposal capacity estimates are reviewed and approved by senior operations management annually. Changes in cost estimates and disposal capacity are reflected prospectively in the landfill amortization rates that are updated annually. See our *Results of Operations* section in this Management's Discussion and Analysis of Financial Condition and Results of Operations for discussion on changes to our landfill depletion and amortization.

Landfill Asset Retirement Obligations

We have two types of retirement obligations related to landfills: (1) capping and (2) closure and post-closure.

Obligations associated with final capping activities that occur during the operating life of the landfill are recognized on a units-of-consumption basis as airspace is consumed within each discrete capping event. Obligations related to closure and post-closure activities that occur after the landfill has ceased operations are recognized on a units-of-consumption basis as airspace is consumed throughout the entire life of the landfill. Landfill retirement obligations are capitalized as the related liabilities are recognized and amortized using the units-of-consumption method over the airspace consumed within the capping event or the airspace consumed within the entire landfill, depending on the nature of the obligation. All obligations are initially measured at estimated fair value. Fair value is calculated on a present value basis using an inflation rate and our credit-adjusted, risk-free rate in effect at the time the liabilities were incurred. Future costs for final capping, closure and post-closure are developed at least annually by engineers, and are inflated to future value using estimated future payment dates and inflation rate projections.

Landfill capping. As individual areas within each landfill reach capacity, we must cap and close the areas in accordance with the landfill site permit. These requirements are detailed in the technical design of the landfill site process previously described.

Closure and post-closure. Closure costs are costs incurred after a landfill stops receiving waste, but prior to being certified as closed. After the entire landfill has reached capacity and is certified closed, we must continue to maintain and monitor the site for a post-closure period, which generally extends for 30 years. Costs associated with closure and post-closure requirements generally include maintenance of the site, the monitoring of methane gas collection systems and groundwater systems, and other activities that occur after the site has ceased accepting waste. Costs associated with post-closure monitoring generally include groundwater sampling, analysis and statistical reports, third-party labor associated with gas system operations and maintenance, transportation and disposal of leachate, and erosion control costs related to the final cap.

Landfill retirement obligation liabilities and assets. Estimates of the total future costs required to cap, close and monitor each landfill as specified by the landfill permit are updated annually. The estimates include inflation, the specific timing of future cash outflows, and the anticipated waste flow into the capping events. Our cost estimates are inflated to the period of performance using an estimate of inflation, which is updated annually and is based upon the ten year average consumer price index (1.7% in 2019 and 2018).

The present value of the remaining capping costs for specific capping events and the remaining closure and post-closure costs for each landfill are recorded as incurred on a per-ton basis. These liabilities are incurred as disposal capacity is consumed at the landfill.

Capping, closure and post-closure liabilities are recorded in layers and discounted using our credit-adjusted risk-free rate in effect at the time the obligation is incurred (4.3% in 2019 and 2018).

Retirement obligations are increased each year to reflect the passage of time by accreting the balance at the weighted average credit-adjusted risk-free rate that was used to calculate each layer of the recorded liabilities. This accretion is charged to operating expenses. Actual cash expenditures reduce the asset retirement obligation liabilities as they are made.

Corresponding retirement obligation assets are recorded for the same value as the additions to the capping, closure and post-closure liabilities. The retirement obligation assets are amortized to expense on a per-ton basis as disposal capacity is consumed. The per-ton rate is calculated by dividing the sum of each of the recorded retirement obligation asset's net book value and expected future additions to the retirement obligation asset by the remaining disposal capacity. A per-ton rate is determined for each separate capping event based on the disposal capacity relating to that event. Closure and post-closure per-ton rates are based on the total disposal capacity of the landfill.

Residual risks:

- Changes in legislative or regulatory requirements, including changes in capping, closure activities or post-closure monitoring activities, types and quantities of materials used, or term of post-closure care, could cause changes in our cost estimates.
- Changes in the landfill retirement obligation due to changes in the anticipated waste flow, changes in airspace compaction estimates or changes in the timing of expenditures for closed landfills and fully incurred but unpaid capping events are recorded in results of operations prospectively. This could result in unanticipated increases or decreases in expense.
- Actual timing of disposal capacity utilization could differ from projected timing, causing differences in timing of when amortization and accretion expense is recognized for capping, closure and post-closure liabilities.
- Changes in inflation rates could impact our actual future costs and our total liabilities.

- Changes in our capital structure or market conditions could result in changes to the credit-adjusted risk-free rate used to discount the liabilities, which could cause changes in future recorded liabilities, assets and expense.
- Amortization rates could change in the future based on the evaluation of new facts and circumstances relating to landfill capping design, post-closure monitoring requirements, or the inflation or discount rate.

On an annual basis, we update our estimates of future capping, closure and post-closure costs and of future disposal capacity for each landfill. Revisions in estimates of our costs or timing of expenditures are recognized immediately as increases or decreases to the capping, closure and post-closure liabilities and the corresponding retirement obligation assets. Changes in the assets result in changes to the amortization rates which are applied prospectively, except for fully incurred capping events and closed landfills, where the changes are recorded immediately in results of operations since the associated disposal capacity has already been consumed. See our *Results of Operations* section in this Management's Discussion and Analysis of Financial Condition and Results of Operations for discussion on changes to our landfill depletion and amortization.

Permitted and probable disposal capacity. Disposal capacity is determined by the specifications detailed in the landfill permit. We classify this disposal capacity as permitted. We also include probable expansion disposal capacity in our remaining disposal capacity estimates, thus including additional disposal capacity being sought through means of a permit expansion. Probable expansion disposal capacity has not yet received final approval from the applicable regulatory agencies, but we have determined that certain critical criteria have been met and that the successful completion of the expansion is probable. We have developed six criteria that must be met before an expansion area is designated as probable expansion airspace. We believe that satisfying all of these criteria demonstrates a high likelihood that expansion airspace that is incorporated in our landfill costing will be permitted. However, because some of these criteria are judgmental, they may exclude expansion airspace that will eventually be permitted or include expansion airspace that will not be permitted. In either of these scenarios, our amortization, depletion and accretion expense could change significantly. Our internal criteria to classify disposal capacity as probable expansion airspace are as follows:

- We own the land associated with the expansion airspace or control it pursuant to an option agreement;
- We are committed to supporting the expansion project financially and with appropriate resources;
- There are no identified fatal flaws or impediments associated with the project, including political impediments;
- Progress is being made on the project;
- The expansion is attainable within a reasonable time frame; and
- We believe it is likely we will receive the expansion permit.

After successfully meeting these criteria, the disposal capacity that will result from the planned expansion is included in our remaining disposal capacity estimates. Additionally, for purposes of calculating landfill amortization and capping, closure and post-closure rates, we include the incremental costs to develop, construct, close and monitor the related probable expansion disposal capacity.

Residual risk:

- We may be unsuccessful in obtaining permits for probable expansion disposal capacity because of the failure to obtain the final local, state or federal permits or due to other unknown reasons. If we are unsuccessful in obtaining permits for probable expansion disposal capacity, or the disposal capacity for which we obtain approvals is less than what was estimated, both our estimated total costs and disposal capacity will be reduced, which generally increases the rates we charge for landfill amortization and capping, closure and post-closure accruals. An unexpected decrease in disposal capacity could also cause an asset impairment.

Environmental Liabilities

We are subject to an array of laws and regulations relating to the protection of the environment, and we remediate sites in the ordinary course of our business. Under current laws and regulations, we may be responsible for environmental remediation at sites that we either own or operate, including sites that we have acquired, or sites where we have (or a company that we have acquired has) delivered waste. Our environmental remediation liabilities primarily include costs associated with remediating groundwater, surface water and soil contamination, as well as controlling and containing methane gas migration and the related legal costs. To estimate our ultimate liability at these sites, we evaluate several factors, including the nature and extent of contamination at each identified site, the required remediation methods, timing of expenditures, the apportionment of responsibility among the potentially responsible parties and the financial viability of those parties. We accrue for costs associated with environmental remediation obligations when such costs are probable and reasonably estimable in accordance with accounting for loss contingencies. We periodically review the status of all environmental matters and update our estimates

of the likelihood of and future expenditures for remediation as necessary. Changes in the liabilities resulting from these reviews are recognized currently in earnings in the period in which the adjustment is known. Adjustments to estimates are reasonably possible in the near term and may result in changes to recorded amounts. With the exception of those obligations assumed in the acquisition of Allied, environmental obligations are recorded on an undiscounted basis. Environmental obligations assumed in the acquisition of Allied, which were initially estimated on a discounted basis, are accreted to full value over time through charges to interest expense. Adjustments arising from changes in amounts and timing of estimated costs and settlements may result in increases or decreases in these obligations and are calculated on a discounted basis as they were initially estimated on a discounted basis. These adjustments are charged to operating income when they are known. We perform a comprehensive review of our environmental obligations annually and also review changes in facts and circumstances associated with these obligations at least quarterly. See our *Results of Operations* section in this Management's Discussion and Analysis of Financial Condition and Results of Operations for discussion on our remediation adjustments. We have not reduced the liabilities we have recorded for recoveries from other potentially responsible parties or insurance companies.

Residual risks:

- We cannot determine with precision the ultimate amounts of our environmental remediation liabilities. Our estimates of these liabilities require assumptions about uncertain future events. Thus, our estimates could change substantially as additional information becomes available regarding the nature or extent of contamination, the required remediation methods, timing of expenditures, the final apportionment of responsibility among the potentially responsible parties identified, the financial viability of those parties, and the actions of governmental agencies or private parties with interests in the matter. The actual environmental costs may exceed our current and future accruals for these costs, and any adjustments could be material.
- Actual amounts could differ from the estimated liabilities as a result of changes in estimated future litigation costs to pursue the matter to ultimate resolution.
- An unanticipated environmental liability that arises could result in a material charge to our consolidated statements of income.

Insurance Reserves and Related Costs

Our insurance policies for workers' compensation, commercial general liability, commercial auto liability and environmental liability are high deductible, or retention programs. The deductibles, or retentions, range from $3 million to $10 million. The employee-related health benefits are also subject to a high deductible insurance policy. Accruals for deductibles or retentions are based on claims filed and actuarial estimates of claims development and claims incurred but not reported.

Residual risks:

- Incident rates, including frequency and severity, and other actuarial assumptions could change causing our current and future actuarially determined obligations to change, which would be reflected in our consolidated statements of income in the period in which such adjustment is known.
- Recorded reserves may not be adequate to cover the future payment of claims. Adjustments, if any, to estimates recorded resulting from ultimate claim payments would be reflected in the consolidated statements of income in the periods in which such adjustments are known.
- The settlement costs to discharge our obligations, including legal and health care costs, could increase or decrease causing current estimates of our insurance reserves to change.

New Accounting Standards

For a description of new accounting standards that may affect us, see Note 2, *Summary of Significant Accounting Policies*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Interest Rate Risk

Our major market risk exposure of our financial instruments is changing interest rates in the United States and fluctuations in LIBOR. We intend to manage interest rate risk through the use of a combination of fixed and floating rate debt. The carrying value of our variable rate debt approximates fair value because interest rates are variable and, accordingly, approximates current market rates for instruments with similar risk and maturities. The fair value of our debt is determined as of the balance sheet date and is subject to change.

The table below provides information about certain of our market-sensitive financial instruments and constitutes a forward-looking statement.

	Expected Maturity Date							
	2020	2021	2022	2023	2024	Thereafter	Total	Fair Value as of December 31, 2019
Fixed rate debt:								
Amount outstanding (in millions)	$ 859.5	$ 643.2	$ 859.1	$ 582.4	$ 907.3	$ 3,618.7	$ 7,470.2	$ 8,130.6
Variable rate debt:								
Amount outstanding (in millions)	$ 71.2	$ 127.0	$ —	$ 340.2	$ 20.7	$ 759.3	$ 1,318.4	$ 1,312.2

The fixed and variable rate debt amounts above exclude the remaining non-cash discounts, premiums and adjustments to fair value totaling $100.1 million.

During the second half of 2013, we entered into various interest rate swap agreements relative to our 4.750% fixed rate senior notes due in May 2023. The goal was to reduce overall borrowing costs and rebalance our debt portfolio's ratio of fixed to floating interest rates. These swap agreements, which were designated as fair value hedges, have a total notional value of $300.0 million as of December 31, 2019. Our interest rate swap contracts have been authorized pursuant to our policies and procedures. We do not use financial instruments for trading purposes and are not a party to any leveraged derivatives.

As of December 31, 2019, our interest rate lock agreements had an aggregate notional value of $575.0 million with fixed interest rates ranging from 1.330% to 3.000%. As of December 31, 2018, our interest rate lock agreements had an aggregate notional value of $725.0 million with fixed interest rates ranging from 1.900% to 3.250%. We entered into these transactions to manage exposure to fluctuations in interest rates in anticipation of planned future issuances of senior notes in 2019 through 2021. Upon the expected issuance of senior notes, we will terminate the interest rate locks and settle with our counterparties.

As of December 31, 2019, we had $1,318.4 million of floating rate debt and $300.0 million of floating interest rate swap contracts. If interest rates increased or decreased by 100 basis points on our variable rate debt, annualized interest expense and net cash payments for interest would increase or decrease by approximately $16 million. This analysis does not reflect the effect that interest rates would have on other items, such as new borrowings and the impact on the economy. See Note 9, *Debt,* of the notes to our consolidated financial statements in Item 8 of this Form 10-K for further information regarding how we manage interest rate risk.

Fuel Price Risk

Fuel costs represent a significant operating expense. When economically practical, we may enter into new fuel hedges, renew contracts, or engage in other strategies to mitigate market risk. As of December 31, 2019, we had no fuel hedges in place. While we charge fuel recovery fees to a majority of our customers, we are unable to charge such fees to all customers.

At current consumption levels, we believe a twenty-cent per gallon change in the price of diesel fuel would change our fuel costs by approximately $26 million per year. Offsetting these changes in fuel expense would be changes in our fuel recovery fee charged to our customers. At current participation rates, we believe a twenty-cent per gallon change in the price of diesel fuel would change our fuel recovery fee by approximately $26 million per year.

Our operations also require the use of certain petrochemical-based products (such as liners at our landfills) whose costs may vary with the price of petrochemicals. An increase in the price of petrochemicals could increase the cost of those products, which would increase our operating and capital costs. We also are susceptible to increases in fuel recovery fees from our vendors.

Our fuel costs were $347.9 million in 2019, or 3.4% of revenue, compared to $391.4 million in 2018, or 3.9% of revenue, and $349.8 million in 2017, or 3.5% of revenue.

Commodities Price Risk

We market recovered materials such as old corrugated containers and old newsprint from our recycling processing centers. Changes in market supply and demand for recycled commodities causes volatility in commodity prices. In prior periods, we have entered into derivative instruments such as swaps and costless collars designated as cash flow hedges to manage our exposure to changes in prices of these commodities. As of December 31, 2019, we had no recycling commodity hedges in place.

At current volumes and mix of materials, we believe a $10 per ton change in the price of recycled commodities would change annual revenue and operating income by approximately $13 million and $13 million, respectively.

Revenue from recycling processing and commodity sales during the years ended December 31, 2019, 2018 and 2017 was $273.2 million, $297.8 million, and $539.2 million, respectively.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and Board of Directors of Republic Services, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Republic Services, Inc. (the Company) as of December 31, 2019 and 2018, and the related consolidated statements of income, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the consolidated financial position of the Company at December 31, 2019 and 2018, and the consolidated results of its operations and its cash flows for each of the three years in the period ended December 31, 2019 in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated February 13, 2020 expressed an unqualified opinion thereon.

Adoption of New Accounting Standard

As discussed in Note 2 to the consolidated financial statements, the Company changed its method for recognizing revenue as a result of the adoption of the Accounting Standards Update (ASU) 2014-09, *Revenue from Contracts with Customers (Topic 606)*, and the amendments in ASU 2015-14, 2016-08, 2016-10 and 2016-12 effective January 1, 2018.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Landfill Development Asset Amortization

Description of the Matter

At December 31, 2019, the net book value of the Company's landfill development assets totaled $3.5 billion, and the associated landfill development asset amortization expense for 2019 was $333.0 million. Significant assumptions used in calculating the amortization expense include estimated future development costs associated with the land, permitting, cell construction and environmental structures of the landfill in relation to airspace consumed to date and total estimated available airspace. These assumptions have a significant effect on the total landfill amortization expense. As discussed in Note 2 to the consolidated financial statements, costs and airspace estimates are developed at least annually, or more often if significant facts change.

How We Addressed the Matter in Our Audit

Auditing landfill development asset amortization expense is complex due to the highly judgmental nature of the assumptions used in the calculation of the expense and required the involvement of specialists to assist us with evaluating estimated future development costs and certain assumptions to project total estimated available airspace.

We tested controls that address the risks of material misstatement relating to the measurement and valuation of landfill development asset amortization expense. For example, we tested controls over the estimation of future landfill development costs and management's review of the assumptions to project total estimated available airspace.

To test the landfill development asset amortization expense, our audit procedures included, among others, assessing methodologies and testing the significant assumptions discussed above related to the underlying cost and airspace data used by the Company. We compared the significant assumptions used by management to historical trends and, when available, to comparable size landfills accepting the same type of waste. We also tested the completeness and accuracy of the historical data utilized in the development of the amortization expense. Regarding available airspace, we evaluated the Company's estimation of the landfill disposal capacity through a comparison of airspace to historical estimates and annual aerial surveys. We involved EY engineering specialists to assist us with evaluating estimated future development costs and certain assumptions to project total estimated available airspace.

Landfill Final Capping, Closure and Post-Closure Costs

Description of the Matter

At December 31, 2019, the carrying value of the Company's landfill final capping, closure and post-closure costs totaled $1.3 billion. As discussed in Notes 2 and 8 to the consolidated financial statements, asset retirement obligations for final capping, closure and post-closure are measured at their estimated fair value. Management updates the assumptions used to estimate asset retirement obligations at least annually, or more often if significant facts change. These assumptions include estimated future costs associated with the final capping, closure and post closure activities at each landfill, airspace consumed to date, estimated available airspace, projected annual tonnage volume, projected timing of capping, closure and post closure activities and estimated inflation and discount rates. These assumptions have a significant effect on the estimated asset retirement obligation.

How We Addressed the Matter in Our Audit

Auditing the landfill asset retirement obligation is complex due to the highly judgmental nature of the assumptions used in the measurement process and required the involvement of specialists to assist us with evaluating the costs estimated for the capping, closure and post closure activities and certain assumptions to project total estimated available airspace.

We tested controls that address the risks of material misstatement relating to the completeness, measurement and valuation of the asset retirement obligation. For example, we tested controls over management's development of the landfill asset retirement obligation models to estimate the future liability and management's review of data inputs and projections.

To test the landfill asset retirement obligation, our audit procedures included, among others, assessing methodologies used by the Company, testing the completeness of activities included in the estimate (e.g. gas monitoring and leachate management) and testing the significant assumptions discussed above, as well as the underlying costs and other estimates used by the Company in its development of these assumptions. We compared the significant assumptions used by management to historical trends and, when available, to comparable size landfills accepting the same type of waste. We also tested the completeness and accuracy of the historical data utilized in preparing the estimate. We involved EY engineering specialists to assist us with evaluating the costs estimated for the capping, closure and post closure activities and the reasons for significant changes in assumptions from historical trends and determined whether the change from the historical trend was appropriate and identified timely. EY engineering specialists were also involved in evaluating certain assumptions to project total estimated available airspace.

Environmental Liabilities

Description of the Matter

At December 31, 2019, environmental remediation liabilities totaled $500.2 million. As discussed in Note 2 to the consolidated financial statements, the Company performs a review of their environmental obligations annually and when it identifies changes in facts and circumstances associated with these obligations. The Company considers several factors to estimate the ultimate liability at these sites, including, but not limited to, the nature and extent of contamination, the required remediation methods, timing of expenditures, and apportionment of responsibility among the potentially responsible parties and the financial viability of those parties. The Company accrues for costs associated with environmental remediation obligations when such costs are probable and reasonably estimable. Significant assumptions used in estimating environmental remediation liabilities include costs associated with remediating groundwater, surface water and soil contamination, as well as controlling and containing methane gas migration and the related legal costs. These assumptions have a significant effect on the estimated liability.

How We Addressed the Matter in Our Audit

Auditing environmental remediation liabilities is complex and required the involvement of specialists due to the highly judgmental nature of the assumptions used in the estimate.

We tested controls that address the risks of material misstatement relating to the valuation and completeness of the environmental liabilities. For example, we tested controls over the identification of new matters and management's review of the significant assumptions used in determining the estimated remediation liabilities.

To test the environmental liabilities, our audit procedures included, among others, assessing methodologies used by the Company and testing the significant assumptions discussed above, as well as the underlying costs and other estimates used by the Company in its development of these assumptions. We compared the significant assumptions used by management to historical trends and, when available, to notifications or decisions from regulatory agencies specifying remedial plans of action required and to agreements or correspondence regarding the apportionment of responsibility among the potentially responsible parties. We tested the completeness and accuracy of the historical data utilized in the development of the environmental liability. We also involved EY engineering specialists to assist us with evaluating the completeness of the Company's environmental matters and assumptions used in estimating remediation liabilities for certain sites.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 2002.

Phoenix, Arizona

February 13, 2020

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and Board of Directors of Republic Services, Inc.

Opinion on Internal Control over Financial Reporting

We have audited Republic Services, Inc.'s internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Republic Services, Inc. (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of Republic Services, Inc. as of December 31, 2019 and 2018, the related consolidated statements of income, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2019, and the related notes and our report dated February 13, 2020 expressed an unqualified opinion thereon.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Report of Management on Republic Services, Inc.'s Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP

Phoenix, Arizona
February 13, 2020

REPUBLIC SERVICES, INC.
CONSOLIDATED BALANCE SHEETS
(in millions, except per share data)

	December 31, 2019	December 31, 2018
ASSETS		
Current assets:		
Cash and cash equivalents	$ 47.1	$ 70.5
Accounts receivable, less allowance for doubtful accounts and other of $34.0 and $34.3, respectively	1,125.9	1,102.7
Prepaid expenses and other current assets	433.0	391.2
Total current assets	1,606.0	1,564.4
Restricted cash and marketable securities	179.4	108.1
Property and equipment, net	8,383.5	8,020.1
Goodwill	11,633.4	11,400.1
Other intangible assets, net	133.9	106.5
Other assets	747.6	417.8
Total assets	$ 22,683.8	$ 21,617.0
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	$ 777.9	$ 761.5
Notes payable and current maturities of long-term debt	929.9	690.7
Deferred revenue	336.0	338.7
Accrued landfill and environmental costs, current portion	132.6	130.6
Accrued interest	74.0	68.5
Other accrued liabilities	814.2	728.6
Total current liabilities	3,064.6	2,718.6
Long-term debt, net of current maturities	7,758.6	7,646.8
Accrued landfill and environmental costs, net of current portion	1,703.2	1,701.6
Deferred income taxes and other long-term tax liabilities, net	1,180.6	1,028.3
Insurance reserves, net of current portion	276.5	270.8
Other long-term liabilities	579.4	321.4
Commitments and contingencies		
Stockholders' equity:		
Preferred stock, par value $0.01 per share; 50 shares authorized; none issued	—	—
Common stock, par value $0.01 per share; 750 shares authorized; 353.3 and 351.9 issued including shares held in treasury, respectively	3.5	3.5
Additional paid-in capital	4,994.8	4,924.9
Retained earnings	5,317.3	4,750.5
Treasury stock, at cost; 34.5 and 29.4 shares, respectively	(2,199.6)	(1,782.6)
Accumulated other comprehensive income, net of tax	2.2	30.8
Total Republic Services, Inc. stockholders' equity	8,118.2	7,927.1
Non-controlling interests in consolidated subsidiary	2.7	2.4
Total stockholders' equity	8,120.9	7,929.5
Total liabilities and stockholders' equity	$ 22,683.8	$ 21,617.0

The accompanying notes are an integral part of these financial statements.

REPUBLIC SERVICES, INC.
CONSOLIDATED STATEMENTS OF INCOME
(in millions, except per share data)

	Years Ended December 31,		
	2019	2018	2017
Revenue	$ 10,299.4	$ 10,040.9	$ 10,041.5
Expenses:			
Cost of operations	6,298.4	6,150.0	6,214.6
Depreciation, amortization and depletion	1,040.5	1,033.4	1,036.3
Accretion	81.9	80.7	79.8
Selling, general and administrative	1,091.9	1,059.5	1,057.4
Withdrawal costs - multiemployer pension funds	—	—	1.2
Gain on business divestitures and impairments, net	(14.7)	(44.9)	(33.9)
Restructuring charges	14.2	26.4	17.6
Operating income	1,787.2	1,735.8	1,668.5
Interest expense	(392.0)	(383.8)	(361.9)
Loss from unconsolidated equity method investments	(112.2)	(35.8)	(27.4)
Loss on extinguishment of debt	—	(0.3)	(0.8)
Interest income	6.4	1.6	1.0
Other income, net	6.4	3.4	2.7
Income before income taxes	1,295.8	1,320.9	1,282.1
Provision for income taxes	222.0	283.3	3.1
Net income	1,073.8	1,037.6	1,279.0
Net income attributable to non-controlling interests in consolidated subsidiary	(0.5)	(0.7)	(0.6)
Net income attributable to Republic Services, Inc.	$ 1,073.3	$ 1,036.9	$ 1,278.4
Basic earnings per share attributable to Republic Services, Inc. stockholders:			
Basic earnings per share	$ 3.34	$ 3.17	$ 3.79
Weighted average common shares outstanding	321.1	326.9	337.1
Diluted earnings per share attributable to Republic Services, Inc. stockholders:			
Diluted earnings per share	$ 3.33	$ 3.16	$ 3.77
Weighted average common and common equivalent shares outstanding	322.0	328.4	339.0
Cash dividends per common share	$ 1.56	$ 1.44	$ 1.33

The accompanying notes are an integral part of these financial statements.

REPUBLIC SERVICES, INC.
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
(in millions)

	Years Ended December 31,		
	2019	2018	2017
Net income	$ 1,073.8	$ 1,037.6	$ 1,279.0
Other comprehensive income (loss), net of tax			
Hedging activity:			
Settlements	—	4.0	(3.7)
Realized loss (gain) reclassified into earnings	1.0	(3.8)	5.3
Unrealized (loss) gains	(30.2)	14.5	3.1
Pension activity:			
Change in funded status of pension plan obligations	(2.5)	(6.5)	3.7
Other comprehensive income (loss), net of tax	(31.7)	8.2	8.4
Comprehensive income	1,042.1	1,045.8	1,287.4
Comprehensive income attributable to non-controlling interests	(0.5)	(0.7)	(0.6)
Comprehensive income attributable to Republic Services, Inc.	$ 1,041.6	$ 1,045.1	$ 1,286.8

The accompanying notes are an integral part of these financial statements.

REPUBLIC SERVICES, INC.
CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY
(in millions)

	Republic Services, Inc. Stockholders' Equity								
	Common Stock		Additional Paid-In Capital	Retained Earnings	Treasury Stock		Accumulated Other Comprehensive Income (Loss), Net of Tax	Non-controlling Interests In Consolidated Subsidiary	Total
	Shares	Amount			Shares	Amount			
Balance as of December 31, 2016	348.2	$ 3.5	$ 4,764.5	$ 3,324.0	(8.8)	$ (414.9)	$ 14.2	$ 2.4	$ 7,693.7
Net income	—	—	—	1,278.4	—	—	—	0.6	1,279.0
Change in the value of derivative instruments, net of tax of $3.1	—	—	—	—	—	—	4.7	—	4.7
Employee benefit plan liability adjustments, net of tax of $2.4	—	—	—	—	—	—	3.7	—	3.7
Cash dividends declared	—	—	—	(446.3)	—	—	—	—	(446.3)
Issuances of common stock	1.9	—	36.9	—	—	—	—	—	36.9
Stock-based compensation	—	—	38.2	(3.6)	—	—	—	—	34.6
Purchase of common stock for treasury	—	—	—	—	(9.6)	(644.5)	—	—	(644.5)
Distributions paid	—	—	—	—	—	—	—	(0.7)	(0.7)
Balance as of December 31, 2017	350.1	3.5	4,839.6	4,152.5	(18.4)	(1,059.4)	22.6	2.3	7,961.1
Adoption of accounting standard, net of tax	—	—	—	33.4	—	—	—	—	33.4
Net income	—	—	—	1,036.9	—	—	—	0.7	1,037.6
Change in the value of derivative instruments, net of tax of $5.4	—	—	—	—	—	—	14.7	—	14.7
Employee benefit plan liability adjustments, net of tax of $2.3	—	—	—	—	—	—	(6.5)	—	(6.5)
Cash dividends declared	—	—	—	(468.4)	—	—	—	—	(468.4)
Issuances of common stock	1.8	—	43.3	—	(0.3)	(20.1)	—	—	23.2
Stock-based compensation	—	—	42.0	(3.9)	—	—	—	—	38.1
Purchase of common stock for treasury	—	—	—	—	(10.7)	(703.1)	—	—	(703.1)
Distributions paid	—	—	—	—	—	—	—	(0.6)	(0.6)
Balance as of December 31, 2018	351.9	3.5	4,924.9	4,750.5	(29.4)	(1,782.6)	30.8	2.4	7,929.5
Adoption of accounting standard, net of tax	—	—	—	(3.1)	—	—	3.1	—	—
Net income	—	—	—	1,073.3	—	—	—	0.5	1,073.8
Change in the value of derivative instruments, net of tax of $10.4	—	—	—	—	—	—	(29.2)	—	(29.2)
Employee benefit plan liability adjustments, net of tax of $0.9	—	—	—	—	—	—	(2.5)	—	(2.5)
Cash dividends declared	—	—	—	(499.4)	—	—	—	—	(499.4)
Issuances of common stock	1.4	—	26.9	—	(0.2)	(17.6)	—	—	9.3
Stock-based compensation	—	—	43.0	(4.0)	—	—	—	—	39.0
Purchase of common stock for treasury	—	—	—	—	(4.9)	(399.4)	—	—	(399.4)
Distributions paid	—	—	—	—	—	—	—	(0.2)	(0.2)
Balance as of December 31, 2019	353.3	$ 3.5	$ 4,994.8	$ 5,317.3	(34.5)	$ (2,199.6)	$ 2.2	$ 2.7	$ 8,120.9

The accompanying notes are an integral part of these financial statements.

REPUBLIC SERVICES, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(in millions)

	Years Ended December 31,		
	2019	2018	2017
Cash provided by operating activities:			
Net income	$ 1,073.8	$ 1,037.6	$ 1,279.0
Adjustments to reconcile net income to cash provided by operating activities:			
Depreciation, amortization, depletion and accretion	1,122.4	1,114.1	1,116.1
Non-cash interest expense	48.8	41.2	43.6
Restructuring related charges	14.2	26.4	17.6
Stock-based compensation	39.5	39.0	34.6
Deferred tax provision (benefit)	166.1	152.1	(379.0)
Provision for doubtful accounts, net of adjustments	34.0	34.8	30.6
Loss on extinguishment of debt	—	0.3	0.8
Gain on disposition of assets and asset impairments, net	(13.8)	(58.9)	(29.5)
Withdrawal costs - multiemployer pension funds	—	—	1.2
Environmental adjustments	(11.9)	5.0	0.4
Loss from unconsolidated equity method investment	112.2	35.8	27.4
Other non-cash items	(5.6)	0.6	(1.2)
Change in assets and liabilities, net of effects from business acquisitions and divestitures:			
Accounts receivable	(38.3)	(29.6)	(118.9)
Prepaid expenses and other assets	(109.7)	(152.5)	(36.4)
Accounts payable	6.4	85.9	21.7
Restructuring expenditures	(10.6)	(24.7)	(18.6)
Capping, closure and post-closure expenditures	(78.2)	(71.9)	(62.7)
Remediation expenditures	(49.1)	(48.8)	(54.8)
Other liabilities	51.9	25.3	38.8
Proceeds from retirement of certain hedging relationships	—	31.1	—
Cash provided by operating activities	2,352.1	2,242.8	1,910.7
Cash used in investing activities:			
Purchases of property and equipment	(1,207.1)	(1,071.8)	(989.8)
Proceeds from sales of property and equipment	21.7	31.6	6.1
Cash used in acquisitions and investments, net of cash and restricted cash acquired	(575.1)	(277.3)	(351.8)
Cash received from business divestitures	42.8	89.2	4.7
Purchases of restricted marketable securities	(14.7)	(38.2)	(18.5)
Sales of restricted marketable securities	13.5	37.7	18.1
Other	(0.1)	(0.3)	1.0
Cash used in investing activities	(1,719.0)	(1,229.1)	(1,330.2)
Cash used in financing activities:			
Proceeds from notes payable and long-term debt, net of fees	4,746.5	4,347.6	4,791.1
Proceeds from issuance of senior notes, net of discount and fees	891.1	781.8	641.5
Payments of notes payable and long-term debt and senior notes	(5,327.9)	(5,000.7)	(4,922.8)
Issuances of common stock, net	9.3	23.2	36.9
Purchases of common stock for treasury	(399.4)	(736.9)	(610.7)
Cash dividends paid	(491.2)	(461.8)	(440.5)
Distributions paid to non-controlling interests in consolidated subsidiary	(0.2)	(0.6)	(0.7)
Contingent consideration payments	(17.2)	(12.1)	(9.2)
Cash used in financing activities	(589.0)	(1,059.5)	(514.4)
Increase (decrease) in cash, cash equivalents, restricted cash and restricted cash equivalents	44.1	(45.8)	66.1
Cash, cash equivalents, restricted cash and restricted cash equivalents at beginning of year	133.3	179.1	113.0
Cash, cash equivalents, restricted cash and restricted cash equivalents at end of year	$ 177.4	$ 133.3	$ 179.1

The accompanying notes are an integral part of these financial statements.

REPUBLIC SERVICES, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. BASIS OF PRESENTATION

Republic Services, Inc., a Delaware corporation, and its consolidated subsidiaries (also referred to collectively as Republic, the Company, we, us, or our), is the second largest provider of non-hazardous solid waste collection, transfer, recycling, disposal and environmental services in the United States, as measured by revenue.

The consolidated financial statements include the accounts of Republic Services, Inc. and its wholly owned and majority owned subsidiaries in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP). We account for investments in entities in which we do not have a controlling financial interest under either the equity method or cost method of accounting, as appropriate. All material intercompany accounts and transactions have been eliminated in consolidation.

For comparative purposes, certain prior year amounts have been reclassified to conform to the current year presentation. All dollar amounts in tabular presentations are in millions, except per share amounts and unless otherwise noted.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Management's Estimates and Assumptions

In preparing our financial statements, we make numerous estimates and assumptions that affect the amounts reported in these financial statements and accompanying notes. We must make these estimates and assumptions because certain information we use is dependent on future events, cannot be calculated with a high degree of precision from data available or simply cannot be readily calculated based on generally accepted methodologies. In preparing our financial statements, the more critical and subjective areas that deal with the greatest amount of uncertainty relate to our accounting for our long-lived assets, including recoverability, landfill development costs, and final capping, closure and post-closure costs; our valuation allowances for accounts receivable and deferred tax assets; our liabilities for potential litigation, claims and assessments; our liabilities for environmental remediation, multiemployer pension plans, employee benefit plans, deferred taxes, uncertain tax positions, and insurance reserves; and our estimates of the fair values of assets acquired and liabilities assumed in any acquisition. Each of these items is discussed in more detail elsewhere in these Notes to Consolidated Financial Statements. Our actual results may differ significantly from our estimates.

Cash and Cash Equivalents

We consider liquid investments with a maturity at the date of acquisition of three months or less to be cash equivalents.

We may have net book credit balances in our primary disbursement accounts at the end of a reporting period. We classify such credit balances as accounts payable in our consolidated balance sheets as checks presented for payment to these accounts are not payable by our banks under overdraft arrangements, and, therefore, do not represent short-term borrowings. As of December 31, 2019 and 2018, there were net book credit balances of $50.6 million and $64.8 million, respectively, in our primary disbursement accounts that were classified as accounts payable on our consolidated balance sheets.

Concentration of Credit Risk

Financial instruments that potentially subject us to concentrations of credit risk consist of cash and cash equivalents, trade accounts receivable and derivative instruments. We place our cash and cash equivalents with high quality financial institutions. Such balances may be in excess of FDIC insured limits. To manage the related credit exposure, we continually monitor the credit worthiness of the financial institutions where we have deposits. Concentrations of credit risk with respect to trade accounts receivable are limited due to the wide variety of customers and markets in which we provide services, as well as the dispersion of our operations across many geographic areas. We provide services to small-container, large-container, municipal and residential, and environmental services customers in the United States and Puerto Rico. We perform ongoing credit evaluations of our customers, but generally do not require collateral to support customer receivables. We establish an allowance for doubtful accounts based on various factors including the credit risk of specific customers, age of receivables outstanding, historical trends, economic conditions and other information.

Accounts Receivable, Net

Accounts receivable represent receivables from customers for collection, transfer, recycling, disposal, environmental services and other services. Our receivables are recorded when billed or when the related revenue is earned and represent claims against third parties that will be settled in cash. The carrying value of our receivables, net of the allowance for doubtful accounts and customer credits, represents their estimated net realizable value. Provisions for doubtful accounts are evaluated on a monthly

basis and are recorded based on our historical collection experience, the age of the receivables, specific customer information and economic conditions. We also review outstanding balances on an account-specific basis. Past due receivable balances are written-off when our collection efforts have been unsuccessful in collecting amounts due.

The following table reflects the activity in our allowance for doubtful accounts for the years ended December 31:

	2019	2018	2017
Balance at beginning of year	$ 34.3	$ 38.9	$ 44.0
Additions charged to expense	34.0	34.8	30.6
Accounts written-off	(34.3)	(39.4)	(35.7)
Balance at end of year	$ 34.0	$ 34.3	$ 38.9

Restricted Cash and Marketable Securities

As of December 31, 2019, we had $179.4 million of restricted cash and marketable securities of which $99.4 million supports our insurance programs for workers' compensation, commercial general liability, and commercial auto liability. Additionally, we obtain funds through the issuance of tax-exempt bonds for the purpose of financing qualifying expenditures at our landfills, transfer stations, collection and recycling processing centers. The funds are deposited directly into trust accounts by the bonding authorities at the time of issuance. As the use of these funds is contractually restricted, and we do not have the ability to use these funds for general operating purposes, they are classified as restricted cash and marketable securities in our consolidated balance sheets.

In the normal course of business, we may be required to provide financial assurance to governmental agencies and a variety of other entities in connection with municipal residential collection contracts, closure or post-closure of landfills, environmental remediation, environmental permits, and business licenses and permits as a financial guarantee of our performance. At several of our landfills, we satisfy financial assurance requirements by depositing cash into restricted trust funds or escrow accounts.

Property and Equipment

We record property and equipment at cost. Expenditures for major additions and improvements to facilities are capitalized, while maintenance and repairs are charged to expense as incurred. When property is retired or otherwise disposed, the related cost and accumulated depreciation are removed from the accounts and any resulting gain or loss is reflected in the consolidated statements of income.

We revise the estimated useful lives of property and equipment acquired through business acquisitions to conform with our policies. We depreciate assets over their estimated useful lives using the straight-line method. We assume no salvage value for our depreciable property and equipment. The estimated useful lives of our property and equipment are as follows:

Buildings and improvements	7 - 40 years
Vehicles	5 - 20 years
Landfill equipment	5 - 7 years
Other equipment	3 - 25 years
Furniture and fixtures	10 years

Landfill development costs also are included in property and equipment. Landfill development costs include direct costs incurred to obtain landfill permits and direct costs incurred to acquire, construct and develop sites, as well as final capping, closure and post-closure assets. These costs are amortized or depleted based on consumed airspace. All indirect landfill development costs are expensed as incurred. For additional information, see Note 8, *Landfill and Environmental Costs*.

Capitalized Interest

We capitalize interest on landfill cell construction and other construction or development projects if they meet the following criteria:

- Total construction costs are $50,000 or greater;
- The construction phase is one month or longer; and
- The assets have a useful life of one year or longer.

Interest is capitalized on qualified assets while they undergo activities to ready them for their intended use. Capitalization of interest ceases once an asset is placed into service or if construction activity is suspended for more than a brief period of time.

Our interest capitalization rate is based on our weighted average cost of indebtedness. Interest capitalized was $7.2 million, $6.8 million and $6.5 million for the years ended December 31, 2019, 2018, and 2017, respectively.

Fair Value of Financial Instruments

Our financial instruments include cash and cash equivalents, restricted cash and marketable securities, fuel, commodity and interest rate hedges, long-term debt, and assets in our defined benefit pension plan. Accounting standards include disclosure requirements around fair values used for certain financial instruments and establish a fair value hierarchy. The hierarchy prioritizes valuation inputs into three levels based on the extent to which inputs used in measuring fair value are observable in the market. Each fair value measurement is reported in one of three levels:

- Level 1 – inputs are based upon unadjusted quoted prices for identical instruments traded in active markets.
- Level 2 – inputs are based upon quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, and model-based valuation techniques for which all significant assumptions are observable in the market or can be corroborated by observable market data for substantially the full term of the assets or liabilities.
- Level 3 – inputs are generally unobservable and typically reflect management's estimates of assumptions that market participants would use in pricing the asset or liability. The fair values are therefore determined using model-based techniques that include option pricing models, discounted cash flow models, and similar techniques.

See Note 12, *Employee Benefit Plans,* and Note 18, *Financial Instruments,* for fair value disclosures related to our defined benefit pension plan investments and financial instruments, respectively.

Investments Other Than Derivatives

Investments other than derivatives primarily include money market funds, common stock, mutual funds, real estate investment trusts, U.S. government and agency securities, municipal and corporate bonds, and foreign government bonds. In general, and where applicable, we use quoted prices in active markets for identical assets or liabilities to determine fair value. This pricing methodology applies to our Level 1 investments, such as money market funds, common stock and certain mutual funds. If quoted prices in active markets for identical assets or liabilities are not available to determine fair value, then we use quoted prices for similar assets and liabilities or inputs other than the quoted prices that are observable either directly or indirectly. These investments are included in Level 2 and consist primarily of corporate bonds, foreign government bonds, real estate investment trusts and certain agency securities.

Derivative Financial Instruments

We use derivative financial instruments to manage our risk associated with changing interest rates by creating offsetting market exposures. We use interest rate swap agreements designated as fair value hedges to manage risk associated with fluctuations in interest rates. In prior periods, we entered into multiple agreements designated as cash flow hedges to lock interest rates in anticipation of future debt issuance.

All derivatives are measured at fair value and recognized in the balance sheet as assets or liabilities, as appropriate. For derivative instruments designated as fair value hedges, to the extent they are effective, they are included as an adjustment to long-term debt in our consolidated balance sheets. Changes in fair value of the ineffective portions are recognized currently in earnings. For derivatives designated as cash flow hedges, changes in fair value of the effective portions of derivative instruments are reported in stockholders' equity as components of other comprehensive income until the forecasted transaction occurs or is not probable of occurring. When the forecasted transaction occurs or is not probable of occurring, the realized net gain or loss is then recognized in the consolidated statements of income. Changes in fair value of the ineffective portions are recognized currently in earnings. See below for discussion of the changes resulting from our prospective adoption of Financial Accounting Standards Board's (FASB) ASU 2017-12, *Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities* (ASU 2017-12), on January 1, 2019.

The fair values of our derivative instruments are determined using standard valuation models with assumptions about prices and other relevant information based on those observed in the underlying markets (Level 2 in the fair value hierarchy). The estimated fair values of derivatives used to hedge risks fluctuate over time and should be viewed in relation to the underlying hedged transactions.

Landfill and Environmental Costs

Life Cycle Accounting

We use life-cycle accounting and the units-of-consumption method to recognize certain landfill costs over the life of the site. In life cycle accounting, all current and future capitalized costs to acquire and construct a site are calculated, and charged to expense based on the consumption of cubic yards of available airspace.

Costs and airspace estimates are developed at least annually by engineers. We use these estimates to adjust the rates we use to deplete capitalized costs. Changes in these estimates primarily relate to changes in available airspace, inflation and applicable regulations. Changes in available airspace include, but are not limited to, changes due to the addition of airspace lying in probable expansion areas, airspace consumed and changes in engineering estimates.

Probable Expansion Airspace

We classify landfill disposal capacity as either permitted (having received the final permit from the applicable regulatory agency) or as probable expansion airspace. Before airspace included in an expansion area is determined to be probable expansion airspace and, therefore, is included in our calculation of total available disposal capacity, all of the following criteria must be met:

- We own the land associated with the expansion airspace or control it pursuant to an option agreement;
- We are committed to supporting the expansion project financially and with appropriate resources;
- There are no identified fatal flaws or impediments associated with the project, including political impediments;
- Progress is being made on the project;
- The expansion is attainable within a reasonable time frame; and
- We believe it is likely the expansion permit will be received.

Upon meeting our expansion criteria, the rates used at each applicable landfill to expense costs to acquire, construct, cap, close and maintain a site during the post-closure period are adjusted to include both the probable expansion airspace and the additional costs to be capitalized or accrued associated with that expansion airspace.

We have identified three steps that landfills generally follow to obtain expansion permits. These steps are as follows:

- Obtaining approval from local authorities;
- Submitting a permit application to state authorities; and
- Obtaining permit approval from state authorities.

We continually monitor our progress toward obtaining permits for each of our sites with probable airspace. If we determine that a landfill expansion area no longer meets our criteria, the probable expansion airspace is removed from the landfill's total available capacity and the rates used at the landfill to deplete costs to acquire, construct, cap, close and maintain a site during the post-closure period are adjusted accordingly. In addition, any amounts capitalized for the probable expansion airspace are charged to expense in the period in which it is determined that the criteria are no longer met.

Capitalized Landfill Costs

Capitalized landfill costs include expenditures for land, permitting, cell construction and environmental structures. Capitalized permitting and cell construction costs are limited to direct costs relating to these activities, including legal, engineering and construction costs associated with excavation, natural and synthetic liners, construction of leachate collection systems, installation of methane gas collection and monitoring systems, installation of groundwater monitoring wells and other costs associated with the development of the site. Interest is capitalized on landfill construction projects while the assets are undergoing activities to ready them for their intended use. Capitalized landfill costs also include final capping, closure and post-closure assets and are depleted as airspace is consumed using the units-of-consumption method.

Costs related to acquiring land, excluding the estimated residual value of unpermitted, non-buffer land, and costs related to permitting and cell construction are depleted as airspace is consumed using the units-of-consumption method.

Capitalized landfill costs also may include an allocation of purchase price paid for landfills. For landfills purchased as part of a group of assets, the purchase price assigned to the landfill is determined based on the estimated fair value of the landfill. If the landfill meets our expansion criteria, the purchase price is further allocated between permitted airspace and expansion airspace based on the respective ratios to total available airspace. Landfill purchase price is amortized using the units-of-consumption method over the total available airspace, including probable expansion airspace, where appropriate.

Final Capping, Closure and Post-Closure Costs

Final capping

We have future obligations for final capping, closure and post-closure costs with respect to the landfills we own or operate as set forth in applicable landfill permits. The permit requirements are based on the Subtitle C and Subtitle D regulations of the Resource Conservation and Recovery Act, as implemented and applied on a state-by-state basis. We define final capping as activities required to permanently cover a portion of a landfill that has been completely filled with waste. Final capping typically includes installing flexible membrane and geosynthetic clay liners, drainage and compact soil layers, and topsoil, and is constructed over an area of the landfill where total airspace capacity has been consumed and waste disposal operations have ceased. These final capping activities occur in phases as needed throughout the operating life of a landfill as specific areas are filled to capacity and the final elevation for that specific area is reached in accordance with the provisions of the operating permit. We consider final capping events to be discrete activities that are recognized as asset retirement obligations separately from other closure and post-closure obligations. As a result, we use a separate rate per ton for recognizing the principal amount of the liability and related asset associated with each capping event. We amortize the asset recorded pursuant to this approach as waste volume related to the capacity covered by the capping event is placed into the landfill based on the consumption of cubic yards of available airspace.

Closure and post-closure

Closure and post-closure activities occur after the entire landfill ceases to accept waste and closes. These activities involve methane gas control, leachate management and groundwater monitoring, surface water monitoring and control, and other operational and maintenance activities that occur after the site ceases to accept waste. Obligations associated with monitoring and controlling methane gas migration and emissions are set forth in applicable landfill permits and these requirements are based on the provisions of the Clean Air Act. The post-closure period generally runs for 30 years after final site closure for municipal solid waste landfills and a shorter period for construction and demolition landfills and inert landfills. We recognize asset retirement obligations and the related amortization expense for closure and post-closure (excluding obligations for final capping) using the units-of-consumption method over the total remaining capacity of the landfill, including probable expansion airspace, where appropriate.

Estimated future expenditures

Estimates of future expenditures for final capping, closure and post-closure are developed at least annually by engineers. Management reviews these estimates and our operating and accounting personnel use them to adjust the rates used to capitalize and amortize these costs. These estimates involve projections of costs that will be incurred during the remaining life of the landfill for final capping activities, after the landfill ceases operations and during the legally required post-closure monitoring period. As of December 31, 2019, we had 130 closed landfills.

Fair value measurements

In general, we engage third parties to perform most of our final capping, closure and post-closure activities. Accordingly, the fair value of these activities is based on quoted and actual prices paid for similar work. We also perform some of our final capping, closure and post-closure activities using internal resources. Where we expect internal resources to be used to fulfill an asset retirement obligation, we add a profit margin to the estimated cost of such services to better reflect their fair value. If we perform these services internally, the added profit margin is recognized as a component of operating income in the period the obligation is settled.

Our estimates of costs to discharge asset retirement obligations for landfills are developed in today's dollars. These costs are inflated each year to reflect a normal escalation of prices up to the year they are expected to be paid. We used a 1.7% inflation rate for the years ended December 31, 2019, 2018, and 2017, which is based on the ten-year historical moving average increase of the U.S. Consumer Price Index, and is the rate used by most large waste industry participants. These estimated costs are then discounted to their present values using a credit-adjusted, risk-free interest rate.

Changes in assets retirement obligations

A liability for an asset retirement obligation is recognized in the period in which it is incurred and is initially measured at fair value. The offset to the liability is capitalized as part of the carrying amount of the related long-lived asset. Changes in the liabilities due to revisions to estimated future cash flows are recognized by increasing or decreasing the liabilities with the offsets adjusting the carrying amounts of the related long-lived assets, and may also require immediate adjustments to amortization expense in the consolidated statements of income. Upward revisions in the amount of undiscounted estimated cash flows used to record a liability are discounted using the credit-adjusted, risk-free interest rate in effect at the time of the change. Downward revisions in the amount of undiscounted estimated cash flows used to record a liability are discounted using the credit-adjusted, risk-free rate that existed when the original liability was recognized.

Changes in asset retirement obligations due to the passage of time are measured by recognizing accretion expense in a manner that results in a constant effective interest rate being applied to the average carrying amount of the liability. The effective interest rate used to calculate accretion expense is our credit-adjusted, risk-free interest rate in effect at the time the liabilities were recorded.

We review our calculations with respect to landfill asset retirement obligations at least annually. If there is a significant change in the facts and circumstances related to a landfill during the year, we will review our calculations for the landfill as soon as practical after the change has occurred.

Landfill operating expenses

Costs associated with daily maintenance activities and environmental compliance during the operating life of the landfill are expensed as incurred. These costs include, among other things, leachate treatment and disposal, methane gas and groundwater monitoring and systems maintenance, interim cap maintenance, costs associated with the application of daily cover materials, and the legal and administrative costs of ongoing environmental compliance.

Environmental Liabilities

We are subject to an array of laws and regulations relating to the protection of the environment, and we remediate sites in the ordinary course of our business. Under current laws and regulations, we may be responsible for environmental remediation at sites that we either own or operate, including sites that we have acquired, or sites where we have (or a company that we have acquired has) delivered waste. Our environmental remediation liabilities primarily include costs associated with remediating groundwater, surface water and soil contamination, as well as controlling and containing methane gas migration and the related legal costs. To estimate our ultimate liability at these sites, we evaluate several factors, including the nature and extent of contamination at each identified site, the required remediation methods, timing of expenditures, the apportionment of responsibility among the potentially responsible parties and the financial viability of those parties. We accrue for costs associated with environmental remediation obligations when such costs are probable and reasonably estimable in accordance with accounting for loss contingencies. We periodically review the status of all environmental matters and update our estimates of the likelihood of and future expenditures for remediation as necessary. Changes in the liabilities resulting from these reviews are recognized currently in earnings in the period in which the adjustment is known. Adjustments to estimates are reasonably possible in the near term and may result in changes to recorded amounts. With the exception of those obligations assumed in the acquisition of Allied, environmental obligations are recorded on an undiscounted basis. Adjustments arising from changes in amounts and timing of estimated costs and settlements may result in increases or decreases in these obligations and are calculated on a discounted basis as they were initially estimated on a discounted basis. These adjustments are charged to operating income when they are known. We perform a comprehensive review of our environmental obligations annually and also review changes in facts and circumstances associated with these obligations at least quarterly. We have not reduced the liabilities we have recorded for recoveries from other potentially responsible parties or insurance companies.

Business Combinations

We acquire businesses in the waste industry, including non-hazardous waste collection, transfer, recycling, disposal and environmental services operations, as part of our growth strategy. Businesses are included in the consolidated financial statements from the date of acquisition.

We recognize, separately from goodwill, the identifiable assets acquired and liabilities assumed at their estimated acquisition-date fair values. We measure and recognize goodwill as of the acquisition date as the excess of: (1) the aggregate of the fair value of consideration transferred, the fair value of any non-controlling interest in the acquiree (if any) and the acquisition date fair value of our previously held equity interest in the acquiree (if any), over (2) the fair value of assets acquired and liabilities assumed. If information about facts and circumstances existing as of the acquisition date is incomplete by the end of the reporting period in which a business combination occurs, we report provisional amounts for the items for which the accounting is incomplete. The measurement or allocation period ends once we receive the information we are seeking; however, this period will generally not exceed one year from the acquisition date. Any material adjustments recognized during the measurement period will be reflected retrospectively in the consolidated financial statements of the subsequent period. We recognize third-party transaction related costs as expense currently in the period in which they are incurred.

Goodwill and Other Intangible Assets

We evaluate goodwill for impairment annually as of October 1st, or when an indicator of impairment exists. We compare the fair value of our reporting units with the carrying value, including goodwill. We recognize an impairment charge for the amount by which the carrying value exceeds a reporting unit's fair value, not to exceed the total amount of recorded goodwill, as applicable.

During 2019, we managed and evaluated our operations through two field groups: Group 1 and Group 2. In determining fair value, we primarily use discounted future cash flows and operating results based on a comparative multiple of earnings or revenues.

Significant estimates used in our fair value calculation using discounted future cash flows include: (1) estimates of future revenue and expense growth by reporting unit, which we estimate to be approximately 3% annually; (2) future estimated effective tax rates, which we estimate to be 27%; (3) future estimated capital expenditures and future required investments in working capital; (4) estimated discount rates, which we estimate to range between 6% and 8%; and (5) the future terminal value of the reporting unit, which is based on its ability to exist into perpetuity. Significant estimates used in the fair value calculation utilizing market value multiples include: (a) estimated future growth potential of the reporting unit; (b) estimated multiples of revenue or earnings a willing buyer is likely to pay; and (c) the estimated control premium a willing buyer is likely to pay.

In addition, we evaluate a reporting unit for impairment if events or circumstances change between annual tests, indicating a possible impairment. Examples of such events or circumstances include: (1) a significant adverse change in legal factors or in the business climate; (2) an adverse action or assessment by a regulator; (3) a more likely than not expectation that a reporting unit or a significant portion thereof will be sold; (4) continued or sustained losses at a reporting unit; (5) a significant decline in our market capitalization as compared to our book value; or (6) we conclude that we may not recover a significant asset group within the reporting unit.

We assign assets and liabilities from our corporate operating segment to our two reporting units to the extent that such assets or liabilities relate to the cash flows of the reporting unit and would be included in determining the reporting unit's fair value.

In preparing our annual test for impairment as of October 1, 2019, we determined that our indicated fair value of total invested capital exceeded our total market capitalization. We believe one of the primary reconciling differences between the indicated fair value of total invested capital and our total market capitalization is due to a control premium. We believe the control premium represents the value a market participant could extract as savings or synergies by obtaining control.

As of October 1, 2019, we determined that the indicated fair value of our reporting units exceeded their carrying value by approximately 140% on average and, therefore, we noted no indicators of impairment at our reporting units.

Our operating segments, which also represent our reporting units, are comprised of several vertically integrated businesses. When an individual business within an integrated operating segment is divested, goodwill is allocated to that business based on its fair value relative to the fair value of its operating segment.

Other intangible assets include values assigned to customer relationships, non-compete agreements and trade names and are amortized generally on a straight-line basis over periods ranging from 1 to 17 years.

Asset Impairments

We continually consider whether events or changes in circumstances have occurred that may warrant revision of the estimated useful lives of our long-lived assets (other than goodwill) or whether the remaining balances of those assets should be evaluated for possible impairment. Long-lived assets include, for example, capitalized landfill costs, other property and equipment, and identifiable intangible assets.

Events or changes in circumstances that may indicate that an asset may be impaired include the following:

- A significant decrease in the market price of an asset or asset group;
- A significant adverse change in the extent or manner in which an asset or asset group is being used or in its physical condition;
- A significant adverse change in legal factors or in the business climate that could affect the value of an asset or asset group, including an adverse action or assessment by a regulator;
- An accumulation of costs significantly in excess of the amount originally expected for the acquisition or construction of a long-lived asset;
- A current period operating or cash flow loss combined with a history of operating or cash flow losses or a projection or forecast that demonstrates continuing losses associated with the use of a long-lived asset or asset group;
- A current expectation that, more likely than not, a long-lived asset or asset group will be sold or otherwise disposed of significantly before the end of its previously estimated useful life; or
- An impairment of goodwill at a reporting unit.

There are certain indicators listed above that require judgment and understanding of the waste industry when applied to landfill development or expansion. For example, a regulator may initially deny a landfill expansion permit application though the expansion permit is ultimately granted. In addition, management may periodically divert waste from one landfill to another to conserve remaining permitted landfill airspace. Therefore, certain events could occur in the ordinary course of business and not necessarily be considered indicators of impairment due to the unique nature of the waste industry.

If indicators of impairment exist, the asset or asset group is reviewed to determine whether its recoverability is impaired. We assess the recoverability of the asset or asset group by comparing its carrying value to an estimate (or estimates) of its undiscounted future cash flows over its remaining life. If the estimated undiscounted cash flows are not sufficient to recover the carrying value of the asset or asset group, we measure an impairment loss as the amount by which the carrying amount of the asset exceeds its fair value. The loss is recorded in the consolidated statements of income in the period in which such impairment is identified. Estimating future cash flows requires significant judgment, and our projections of future cash flows and remaining useful lives may vary materially from actual results.

Insurance Reserves

Our insurance programs for workers' compensation, commercial general and auto liability, environmental and remediation liability, and employee-related health care benefits are subject to high deductible insurance policies. Accruals for insurance reserves are based on claims filed and estimates of claims incurred but not reported. We consider our past claims experience, including both frequency and settlement amount of claims, in determining these estimates. It is possible that recorded reserves may not be adequate to cover the future payment of claims. Adjustments, if any, to estimates recorded resulting from ultimate claim payments will be reflected in the consolidated statements of income in the periods in which such adjustments are known. In general, our insurance reserves are recorded on an undiscounted basis; however, the insurance liabilities we acquired in the Allied acquisition have been recorded at estimated fair value, and therefore have been discounted to present value based on our estimate of the timing of the related cash flows.

Costs Associated with Exit Activities

We record costs associated with exit activities such as employee termination benefits that represent a one-time benefit when management approves and commits to a plan of termination, and communicates the termination arrangement to the employees, or over the future service period, if any. Other costs associated with exit activities may include contract termination costs, including facility and employee relocation costs.

Contingent Liabilities

We are subject to various legal proceedings, claims and regulatory matters, the outcomes of which are subject to significant uncertainty. In general, we determine whether to disclose or accrue for loss contingencies based on an assessment of whether the risk of loss is remote, reasonably possible or probable, and whether it can be reasonably estimated. We assess our potential liability relating to litigation and regulatory matters based on information available to us. Management develops its assessment based on an analysis of possible outcomes under various strategies. We accrue for loss contingencies when such amounts are probable and reasonably estimable. If a contingent liability is only reasonably possible, we disclose the potential range of the loss, if estimable. Contingent liabilities recorded in purchase accounting are recorded at their fair values. These fair values may

be different from the values we would have otherwise recorded, had the contingent liability not been assumed as part of an acquisition of a business.

Accumulated Other Comprehensive Income

Accumulated other comprehensive income is a component of stockholders' equity and includes the effective portion of the net changes in fair value of our cash flow hedges, amortization of our interest rate locks, and certain adjustments to liabilities associated with our employee defined benefit pension plan liabilities, net of tax.

Revenue Recognition

We generally provide services under contracts with municipalities or individual customers. Municipal and small-container contracts are generally long-term and often have renewal options. Advance billings are recorded as deferred revenue, and revenue is recognized over the period services are provided.

We recognize revenue when control is transferred to the customer, generally at the time we provide a service. Revenue is measured as the amount of consideration we expect to receive in exchange for providing a service. We make certain payments to our customers, including payments to our municipal customers or commodity rebates to customers in our recycling business, which reduce the amount of revenue we recognize.

Income Taxes

We account for income taxes under the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements. Under this method, we record deferred income taxes to reflect the effects of temporary differences between the carrying amounts of assets and liabilities and their tax bases using enacted tax rates that we expect to be in effect when the taxes are actually paid or recovered. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the period that includes the enactment date.

We record net deferred tax assets to the extent we believe these assets will more likely than not be realized. In making these determinations, we consider all available positive and negative evidence, including scheduled reversals of deferred tax liabilities, tax planning strategies, projected future taxable income and recent financial operating results. The weight given to the positive and negative evidence is commensurate with the extent such evidence can be objectively verified. If we determine that we would be able to realize a deferred income tax asset in the future in excess of its net recorded amount, we would make an adjustment to the valuation allowance, which would reduce the provision for income taxes.

We record uncertain tax positions in accordance with ASC 740. A tax benefit from an uncertain tax position may be recognized when it is more likely than not that the position will be sustained upon examination, including resolution of any related appeals or litigation processes, based on the technical merits. Income tax positions must meet a more-likely-than-not recognition threshold at the effective date to be recognized.

We recognize interest and penalties related to uncertain tax positions in the provision for income taxes in the accompanying consolidated statements of income. Accrued interest and penalties are included in other accrued liabilities, deferred income taxes and other long-term tax liabilities in the consolidated balance sheets.

We use the flow-through method to account for investment tax credits earned on eligible development expenditures. Under this method, the investment tax credits are recognized as a reduction to income tax expense in the year they are earned.

Defined Benefit Pension Plan

We currently have one qualified defined benefit pension plan, the BFI Retirement Plan (the Plan). The Plan covers certain current and former employees of Allied in the United States, including some employees subject to collective bargaining agreements. The Plan's benefit formula is based on a percentage of compensation as defined in the Plan document. However, the benefits of all current Plan participants are frozen.

Our pension contributions are made in accordance with funding standards established by the Employee Retirement Income Security Act of 1974 and the Internal Revenue Code, as amended by the Pension Protection Act of 2006. The Plan's assets have been invested as determined by our Employee Benefits Committee. The Employee Benefits Committee reviews and adjusts the Plan's asset allocation as deemed necessary.

The benefit obligation and associated income or expense related to the Plan are determined using annually established assumptions for discount rates, expected rates of return and mortality rates. We determine the discount rate based on a model that matches the timing and amount of expected benefit payments to maturities of high quality bonds priced as of the pension plan measurement date. When that timing does not correspond to a published high-quality bond rate, our model uses an expected yield curve to determine an appropriate current discount rate. The yields on the bonds are used to derive a discount

rate for the liability. In developing our expected rate of return assumption, we evaluate long-term expected and historical actual returns on the Plan assets, giving consideration to the asset mix and the anticipated duration of our Plan obligations. The average rate of compensation increase reflects our expectations of average pay increases over the period benefits are earned. Our assumptions are reviewed annually and adjusted as deemed necessary.

Equity-Based Compensation Plans

Compensation expense associated with our restricted share units is recognized ratably over the vesting period, or to the employee's retirement eligible date, if earlier. The fair value of restricted share units is based on the closing market price on the date of the grant.

Compensation expense associated with our performance shares that vest based on future performance targets is measured using the fair value of our common stock at the grant date for the stock-settled, equity classified awards, and the fair value of our common stock at the end of each reporting period for the cash-settled, liability classified awards. Compensation expense is recognized ratably over the performance period based on our estimated achievement of the established performance criteria. Compensation expense is only recognized for those awards that we expect to vest, which we estimate based on an assessment of the probability that the performance criteria will be achieved.

Income tax related cash flows resulting from equity-based payments are reported as a component of operating activities.

Share Repurchases

Share repurchases under our share repurchase authorization may be made through open market purchases or privately negotiated transactions at the current market prices. From time-to-time, we return treasury shares acquired through share repurchases to the status of authorized but unissued. Our accounting policy is to deduct the par value from common stock and to reflect any excess of cost over par value as a deduction from additional paid-in capital.

Leases

We lease property and equipment in the ordinary course of business under various lease agreements. The most significant lease obligations are for real property and equipment specific to our industry, including property operated as a landfill or transfer station and operating equipment. Our leases have varying terms. Some may include renewal or purchase options, escalation clauses, restrictions, penalties or other obligations that we consider in determining minimum lease payments. Our lease terms include options to renew the lease when it is reasonably certain that we will exercise the option.

Certain leases require payments that are variable in nature based on volume measurements, e.g. a fixed rate per ton at our landfills. In addition, certain rental payments are adjusted annually based on changes in an underlying base index such as a consumer price index. Variable lease payments are recognized in our consolidated statements of income in the period incurred. Our lease agreements do not contain any material residual value guarantees or material restrictive covenants. We generally account for lease components separately from non-lease components.

Leases are classified as either operating leases or finance leases, as appropriate. Leases with an initial term of 12 months or less are not recorded on our consolidated balance sheet.

Operating Leases

Many of our leases are operating leases. Operating lease classification generally can be attributed to either (1) relatively low fixed minimum lease payments (including, for example, real property lease payments that are not fixed and vary based on the volume of waste we receive or process), or (2) minimum lease terms that are shorter than the asset's economic useful life. We expect that, in the ordinary course of business, our operating leases will be renewed, replaced by other leases, or replaced with capital expenditures. We recognize rent expense for these leases on a straight-line basis over the lease term.

We recognize a right-of-use liability and right-of-use asset for leases classified as operating leases in our consolidated balance sheet upon lease commencement. The right-of-use liability represents the present value of the remaining lease payments. An implicit rate is often not readily available for these leases. As such, we use our incremental borrowing rate at the commencement date to determine the present value of the lease payments. Our incremental borrowing rate represents the rate of interest that we would have to pay to borrow on a collateralized basis over a similar term in a similar economic environment. In addition, we recognize a corresponding right-of-use asset, which represents our right to use an underlying asset for the lease term. The right-of-use asset is adjusted for certain favorable or unfavorable leases recognized through acquisition, prepaid or accrued rent, asset impairments and lease incentives, including but not limited to cash incentives, rent abatement or leasehold improvements paid by the lessor.

Finance Leases

We capitalize assets acquired under finance leases at lease commencement and amortize them to depreciation expense over the lesser of the useful life of the asset or the lease term on either a straight-line or a units-of-consumption basis, depending on the asset leased. We record the present value of the related lease payments as a debt obligation. Our finance lease liabilities relate primarily to real property, including certain long-term landfill operating agreements that require minimum lease payments with offsetting finance lease assets recorded as part of the landfill development costs.

Related Party Transactions

It is our policy that transactions with related parties must be on terms that, on the whole, are no less favorable than those that would be available from unaffiliated parties.

New Accounting Pronouncements

Accounting Standards Adopted

Revenue Recognition

Effective January 1, 2018, we adopted ASU 2014-09, *Revenue from Contracts with Customers (Topic 606) and Other Assets and Deferred Costs-Contracts with Customers (Subtopic 340-40)* (ASU 2014-09 or the new revenue recognition standard) using the modified retrospective approach. We recognized the cumulative effect of adopting the new revenue recognition standard as an adjustment to the beginning balance of retained earnings as of the date of adoption. The prior comparative periods have not been restated and continue to be reported under the accounting standards in effect for those periods. The timing and pattern of revenue recognition has not significantly changed under the new revenue recognition standard, nor has there been a material change to our operating or net income.

In addition, effective January 1, 2019, we adopted the following accounting standard updates (ASUs) as issued by the Financial Accounting Standards Board (FASB):

ASU		Effective Date
ASU 2016-02	Leases (Topic 842)	January 1, 2019
ASU 2017-12	Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities	January 1, 2019
ASU 2018-16	Derivatives and Hedging (Topic 815): Inclusion of the Secured Overnight Financing Rate (SOFR) Overnight Index Swap (OIS) Rate as a Benchmark Interest Rate for Hedge Accounting	January 1, 2019
ASU 2018-02	Income Statement - Reporting Comprehensive Income (Topic 220) Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income	January 1, 2019
ASU 2018-07	Compensation—Stock Compensation (Topic 718): Improvements to Nonemployee Share-Based Payment Accounting	January 1, 2019
ASU 2018-15	Intangibles - Goodwill and Other - Internal-Use Software (Subtopic 350-40) No. 2018-15 Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract	January 1, 2019

Leases

Effective January 1, 2019, we adopted ASU 2016-02, *Leases (Topic 842)* (ASC 842 or the new leasing standard) using the optional transition method prescribed by ASU 2018-11, *Leases (Topic 842): Targeted Improvements*. Upon adoption of the new leasing standard, we recognized a right-of-use asset and a right-of-use liability for leases classified as operating leases in our consolidated balance sheet. We applied the package of practical expedients to leases that commenced before the effective date whereby we elected to not reassess the following: (i) whether any expired or existing contracts contain leases; (ii) the lease classification for any expired or existing leases; and (iii) initial direct costs for any existing leases.

To assist in quantifying the impact on our consolidated financial statements and supplementing our existing disclosures, we designed internal controls over the adoption and implemented a software solution to manage and account for our leases. As of January 1, 2019, we recognized a right-of-use liability for our operating leases of $256.3 million classified as other accrued liabilities and other long-term liabilities and a corresponding right-of-use asset of $236.2 million classified as other long-term assets in our consolidated balance sheet. The right-of-use asset reflects adjustments for certain favorable or unfavorable leases recognized through acquisitions, prepaid or accrued rent, asset impairments and lease incentives, including but not limited to cash incentives, rent abatement or leasehold improvements paid by the lessor. We did not recognize a cumulative effect

adjustment to retained earnings as of January 1, 2019 as the standard did not have a material impact on our consolidated statements of income. In addition, the standard did not have a material impact on our accounting for finance (capital) leases.

We assessed the disclosure requirements under the new leasing standard as part of our adoption. Refer to Note 6, *Other Assets*, Note 7, *Other Liabilities*, and Note 10, *Leases*, included herein for our enhanced supplemental disclosures.

Derivatives and Hedging

Effective January 1, 2019, we adopted the FASB's ASU 2017-12, *Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities* (ASU 2017-12). We adopted the new guidance over income statement presentation and enhanced disclosures prospectively, and we adopted the guidance over the elimination of the separate measurement of ineffectiveness on a modified retrospective basis to existing hedging relationships as of the date of adoption. Prior to adoption, the net periodic earnings of our fair value hedges were presented within other income, net in our consolidated statements of income and are now presented within interest expense in our consolidated statements of income, i.e. the same line item as the effect of the hedged item. Our adoption of ASU 2017-12 did not have a material impact on our consolidated financial statements for the year ended December 31, 2019.

Effective January 1, 2019, in conjunction with ASU 2017-12, we adopted the FASB's ASU 2018-16, *Derivatives and Hedging (Topic 815): Inclusion of the Secured Overnight Financing Rate (SOFR) Overnight Index Swap (OIS) Rate as a Benchmark Interest Rate for Hedge Accounting* (ASU 2018-16) on a prospective basis. LIBOR is expected to no longer be published by 2021. Consequently, the FASB added the OIS rate based on SOFR as an eligible benchmark interest rate in order to facilitate the LIBOR to SOFR transition and provide sufficient lead time for entities to prepare for changes to interest rate risk hedging strategies for both risk management and hedge accounting purposes. We are developing a plan to transition our interest rate swaps from LIBOR to SOFR. Our adoption of ASU 2018-16 did not have a material impact on our consolidated financial statements for the year ended December 31, 2019.

Reclassifications of Certain Tax Effects from Accumulated Other Comprehensive Income

Effective January 1, 2019, we adopted the FASB's ASU 2018-02, *Income Statement - Reporting Comprehensive Income (Topic 220) Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income* (ASU 2018-02). The amendments eliminate the stranded tax effects resulting from the Tax Cuts and Jobs Act (the Tax Act). The amendments only relate to the reclassification of the income tax effects of the Tax Act, and the underlying guidance that requires that the effect of a change in tax laws or rates be included in income from continuing operations is not affected. Consequently, we reclassified $3.1 million of stranded tax effects from accumulated other comprehensive income to retained earnings.

Improvements to Nonemployee Share-Based Payment Accounting

Effective January 1, 2019, we adopted the FASB's ASU 2018-07, *Compensation - Stock Compensation (Topic 718): Improvements to Nonemployee Share-Based Payment Accounting* (ASU 2018-07). ASU 2018-07 simplifies several aspects of the accounting for nonemployee share-based payment transactions resulting from expanding the scope of Topic 718, Compensation - Stock Compensation, to include share-based payment transactions for acquiring goods and services from nonemployees. We will apply the guidance prescribed by this update on a prospective basis. Our adoption of ASU 2018-07 did not have a material impact on our consolidated financial statements for the year ended December 31, 2019.

Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract

Effective January 1, 2019, we early adopted the FASB's ASU 2018-15, *Intangibles—Goodwill and Other—Internal-Use Software (Subtopic 350-40) No. 2018-15 Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract* (ASU 2018-15) using a prospective approach. In accordance with the standard, we present capitalized implementation costs incurred in a hosting arrangement that is a service contract as other assets on our consolidated balance sheet. This presentation is consistent with the presentation of the prepayment of fees for the hosting arrangement. Historically, implementation costs were presented as a component of property and equipment, net.

As of January 1, 2019, we reclassified $28.7 million of capitalized implementation costs incurred in a hosting arrangement that is a service contract from property and equipment, net to other assets on our consolidated balance sheet. During the year ended December 31, 2019, we recognized $34.3 million of amortization expense for the prepayment of fees and capitalized implementation costs incurred in a hosting arrangement as a component of depreciation, amortization and depletion in our consolidated statements of income. During the year ended December 31, 2019, we recognized $10.9 million of payments for capitalized implementation costs in the same manner as payments made for fees associated with the hosting arrangement as a component of cash provided by operating activities in our consolidated statements of cash flows.

Accounting Standards Issued but not yet Adopted

Measurement of Credit Losses on Financial Instruments

In June 2016, the FASB issued ASU 2016-13, *Financial Instruments—Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments* (ASU 2016-13). ASU 2016-13 requires the measurement of all expected credit losses for financial assets held at the reporting date based on historical experience, current conditions, and reasonable and supportable forecasts. ASU 2016-13 will replace the incurred loss impairment methodology in current U.S. GAAP with a methodology that reflects expected credit losses and requires consideration of a broader range of reasonable and supportable information to inform credit loss estimates. ASU 2016-13 is effective for public business entities for fiscal years beginning after December 15, 2019, including interim periods within that fiscal year. As such, Republic adopted the standard beginning January 1, 2020 using the required modified-retrospective approach. We do not expect to recognize a material cumulative effect adjustment to retained earnings as of January 1, 2020, and we do not expect our adoption of the standard to have a material impact on our consolidated balance sheet or consolidated statement of income.

We are assessing the disclosure requirements under ASU 2016-13, and we anticipate disclosing additional information, as necessary, to comply with the standard.

Changes to the Disclosure Requirements for Fair Value Measurement

In August 2018, the FASB issued ASU 2018-13, *Fair Value Measurement (Topic 820) Disclosure Framework—Changes to the Disclosure Requirements for Fair Value Measurement* (ASU 2018-13). ASU 2018-13 modifies the disclosure requirements on fair value measurements in Topic 820, Fair Value Measurement. ASU 2018-13 is effective for public business entities for fiscal years beginning after December 15, 2019, including interim periods within that fiscal year. As such, Republic adopted the standard beginning January 1, 2020. We do not expect our adoption of this guidance to have a material impact on our consolidated financial statements.

Changes to the Disclosure Requirements for Defined Benefit Plans

In August 2018, the FASB issued ASU 2018-14, *Compensation—Retirement Benefits—Defined Benefit Plans—General (Subtopic 715-20) Disclosure Framework—Changes to the Disclosure Requirements for Defined Benefit Plans* (ASU 2018-14). ASU 2018-14 removes disclosures that are no longer considered cost beneficial, clarifies the specific requirements of disclosures, and adds disclosure requirements identified as relevant. ASU 2018-14 is effective for public business entities for fiscal years beginning after December 15, 2020, including interim periods within that fiscal year. Early adoption is permitted for all entities. We are currently assessing the effect this guidance may have on our consolidated financial statements.

Simplifying the Accounting for Income Taxes

In December 2019, the FASB issued ASU 2019-12, *Income Taxes (Topic 740): Simplifying the Accounting for Income Taxes* (ASU 2019-12). ASU 2019-12 attempts to simplify aspects of accounting for franchise taxes and enacted changes in tax laws or rates, and clarifies the accounting for transactions that result in a step-up in the tax basis of goodwill. ASU 2019-12 is effective for public business entities for fiscal years beginning after December 15, 2020, including interim periods within that fiscal year. Early adoption is permitted for all entities. We are currently assessing the effect this guidance may have on our consolidated financial statements.

3. BUSINESS ACQUISITIONS, INVESTMENTS AND RESTRUCTURING CHARGES

We acquired various waste businesses during the years ended December 31, 2019 and 2018. The purchase price paid for these business acquisitions and the allocations of the purchase price follows:

	2019	2018
Purchase price:		
Cash used in acquisitions, net of cash acquired	$ 430.0	$ 99.9
Contingent consideration	2.5	—
Holdbacks	15.8	11.2
Fair value, future minimum lease payments	5.8	—
Fair value of operations surrendered	9.5	78.6
Total	$ 463.6	$ 189.7
Allocated as follows:		
Accounts receivable	$ 19.5	$ 6.4
Landfill airspace	—	22.2
Property and equipment	154.5	28.0
Operating right-of-use lease assets	18.1	—
Other assets	1.9	0.1
Inventory	1.0	0.2
Accounts payable	(7.2)	(0.3)
Environmental remediation liabilities	(1.9)	—
Closure and post-closure liabilities	(0.3)	(1.5)
Operating right-of-use lease liabilities	(18.4)	—
Other liabilities	(3.4)	(6.1)
Fair value of tangible assets acquired and liabilities assumed	163.8	49.0
Excess purchase price to be allocated	$ 299.8	$ 140.7
Excess purchase price to be allocated as follows:		
Other intangible assets	$ 47.2	$ 27.8
Goodwill	252.6	112.9
Total allocated	$ 299.8	$ 140.7

The purchase price allocations are preliminary and are based on information existing at the acquisition dates. Accordingly, the purchase price allocations are subject to change. Substantially all of the goodwill and intangible assets recorded for acquisitions in 2019 and 2018 were deductible for tax purposes.

These acquisitions are not material to the Company's results of operations, individually or in the aggregate. As a result, no pro forma financial information is provided.

Investments

In 2019 and 2018, we acquired non-controlling equity interests in certain limited liability companies that qualified for investment tax credits under Section 48 of the Internal Revenue Code. In exchange for our non-controlling interests, we made capital contributions of approximately $129 million and $82 million, which were recorded to other long-term assets in our December 31, 2019 and 2018 consolidated balance sheets, respectively. During 2019 and 2018, we also reduced the carrying value of these investments by $112.2 million and $35.8 million, respectively, as a result of tax credits allocated to us, cash distributions, and our share of income and loss pursuant to the terms of the limited liability company agreements.
For further discussion of the income tax benefits, see Note 11, *Income Taxes*.

Restructuring Charges

In January 2018, we eliminated certain positions following the consolidation of select back-office functions, including but not limited to the integration of our National Accounts support functions into our existing corporate support functions. These changes include a reduction in administrative staffing and closing of certain office locations. During 2019, we incurred restructuring charges of $14.2 million that primarily related to upgrades to our back-office software systems. During 2018, we incurred restructuring charges of $26.4 million that primarily consisted of severance and other employee termination benefits

and the closure of offices with lease agreements with non-cancelable terms. We paid $10.6 million and $24.7 million during 2019 and 2018, respectively, related to these restructuring efforts.

In January 2016, we realigned our field support functions by combining our three regions into two field groups, consolidating our areas and streamlining select operational support roles at our Phoenix headquarters. Additionally, in the second quarter of 2016, we began the redesign of our back-office functions as well as the consolidation of over 100 customer service locations into three Customer Resource Centers. During the year ended December 31, 2017, we incurred $17.6 million of restructuring charges that primarily consisted of severance and other employee termination benefits, transition costs, relocation benefits, and the closure of offices with lease agreements with non-cancelable terms. The savings realized from these restructuring efforts have been reinvested in our customer-focused programs and initiatives. During 2017, we paid $18.6 million related to these restructuring efforts.

4. PROPERTY AND EQUIPMENT, NET

A summary of property and equipment, net as of December 31 follows:

	2019	2018
Land	$ 448.3	$ 443.6
Non-depletable landfill land	170.5	167.5
Landfill development costs	7,474.7	7,106.0
Vehicles and equipment [1]	7,766.0	7,377.3
Buildings and improvements	1,342.6	1,279.8
Construction-in-progress - landfill	366.8	287.9
Construction-in-progress - other [1]	87.7	89.9
	$ 17,656.6	$ 16,752.0
Less: accumulated depreciation, depletion and amortization		
Landfill development costs	$ (3,968.6)	$ (3,635.9)
Vehicles and equipment [1]	(4,728.2)	(4,571.1)
Buildings and improvements	(576.3)	(524.9)
	(9,273.1)	(8,731.9)
Property and equipment, net	$ 8,383.5	$ 8,020.1

(1) In accordance with our adoption of ASU 2018-15, $28.7 million of capitalized implementation costs for cloud-based hosting arrangements were transferred out of property and equipment, net and are now presented as a component of other assets on our consolidated balance sheets as of December 31, 2019.

Depreciation, depletion and amortization of property and equipment was $985.8 million, $977.0 million and $965.3 million for the years ended December 31, 2019, 2018 and 2017, respectively.

5. GOODWILL AND OTHER INTANGIBLE ASSETS, NET

Our senior management evaluates, oversees and manages the financial performance of our operations through two field groups, referred to as Group 1 and Group 2.

Goodwill

A summary of the activity and balances in goodwill accounts by reporting segment follows:

	Balance as of December 31, 2018	Acquisitions	Divestitures	Adjustments to Acquisitions	Balance as of December 31, 2019
Group 1	$ 6,150.6	$ 86.3	$ —	$ (1.3)	$ 6,235.6
Group 2	5,249.5	166.3	(17.9)	(0.1)	5,397.8
Total	$ 11,400.1	$ 252.6	$ (17.9)	$ (1.4)	$ 11,633.4

	Balance as of December 31, 2017	Acquisitions	Divestitures	Adjustments to Acquisitions	Balance as of December 31, 2018
Group 1	$ 6,084.0	$ 94.8	$ (27.0)	$ (1.2)	$ 6,150.6
Group 2	5,231.4	18.1	(4.1)	4.1	5,249.5
Total	$ 11,315.4	$ 112.9	$ (31.1)	$ 2.9	$ 11,400.1

Adjustments to acquisitions during the years ended December 31, 2019 and 2018 primarily related to working capital and deferred taxes.

Goodwill by reporting segment as of December 31, 2017 reflects the transfer of certain areas between our two field groups.

Other Intangible Assets, Net

Other intangible assets, net, include values assigned to customer relationships, non-compete agreements and trade names, and are amortized over periods ranging from 1 to 17 years. A summary of the activity and balances by intangible asset type follows:

	Gross Intangible Assets				Accumulated Amortization				Other Intangible Assets, Net as of December 31, 2019
	Balance as of December 31, 2018	Acquisitions	Adjustments and Other [1]	Balance as of December 31, 2019	Balance as of December 31, 2018	Additions Charged to Expense	Adjustments and Other [1]	Balance as of December 31, 2019	
Customer relationships	$ 692.4	$ 41.4	$ —	$ 733.8	$ (607.2)	$ (16.0)	$ 0.2	$ (623.0)	$ 110.8
Non-compete agreements	37.0	7.4	0.9	45.3	(31.5)	(3.8)	—	(35.3)	10.0
Other intangible assets	64.3	—	(6.1)	58.2	(48.5)	(0.8)	4.2	(45.1)	13.1
Total	$ 793.7	$ 48.8	$ (5.2)	$ 837.3	$ (687.2)	$ (20.6)	$ 4.4	$ (703.4)	$ 133.9

(1) In accordance with our adoption of the new leasing standard, we transferred $1.9 million of net favorable lease assets recognized through historical acquisitions to other assets as of January 1, 2019.

	Gross Intangible Assets				Accumulated Amortization				Other Intangible Assets, Net as of December 31, 2018
	Balance as of December 31, 2017	Acquisitions	Adjustments and Other [2]	Balance as of December 31, 2018	Balance as of December 31, 2017	Additions Charged to Expense	Adjustments and Other [2]	Balance as of December 31, 2018	
Customer relationships	$ 666.0	$ 27.0	$ (0.6)	$ 692.4	$ (554.7)	$ (52.5)	$ —	$ (607.2)	$ 85.2
Non-compete agreements	35.6	1.5	(0.1)	37.0	(28.5)	(3.1)	0.1	(31.5)	5.5
Other intangible assets	73.8	—	(9.5)	64.3	(51.1)	(1.2)	3.8	(48.5)	15.8
Total	$ 775.4	$ 28.5	$ (10.2)	$ 793.7	$ (634.3)	$ (56.8)	$ 3.9	$ (687.2)	$ 106.5

(2) In accordance with our adoption of ASU 2014-09, we transferred a $5.7 million net deferred contract asset to other assets during the year ended December 31, 2018.

Based on the amortizable intangible assets recorded in the consolidated balance sheet as of December 31, 2019, amortization expense for each of the next five years is estimated as follows:

2020	$ 20.5
2021	$ 19.0
2022	$ 17.5
2023	$ 16.1
2024	$ 13.9

6. OTHER ASSETS

Prepaid Expenses and Other Current Assets

A summary of prepaid expenses and other current assets as of December 31 follows:

	2019	2018
Income tax receivable	$ 156.7	$ 187.7
Other non-trade receivables	88.1	34.4
Prepaid expenses	75.5	75.6
Inventories	56.8	53.1
Reinsurance receivable	31.9	25.7
Interest rate swap locks	3.6	—
Prepaid fees for cloud-based hosting arrangements, current	12.4	10.2
Other current assets	8.0	4.5
Total	$ 433.0	$ 391.2

Other Assets

A summary of other assets as of December 31 follows:

	2019	2018
Operating right-of-use lease asset [1]	$ 243.6	$ —
Deferred compensation plan	118.0	100.0
Investments	87.8	73.0
Deferred contract costs and sales commissions	83.1	89.2
Reinsurance receivable	78.9	68.0
Prepaid fees and capitalized implementation costs for cloud-based hosting arrangements [2]	32.0	—
Amounts recoverable for capping, closure and post-closure obligations	31.8	30.5
Interest rate swaps and locks	10.7	12.8
Deferred financing costs	3.0	4.2
Other derivative assets	2.9	—
Other	55.8	40.1
Total	$ 747.6	$ 417.8

(1) Refer to Note 2, *Summary of Significant Accounting Policies*, for discussion regarding our adoption of ASC 842.

(2) In accordance with our adoption of ASU 2018-15, capitalized implementation costs for cloud-based hosting arrangements are presented as other assets as of December 31, 2019. Similar costs are presented as a component of property and equipment, net as of December 31, 2018.

7. OTHER LIABILITIES

Other Accrued Liabilities

A summary of other accrued liabilities as of December 31 follows:

	2019	2018
Accrued payroll and benefits	$ 207.7	$ 205.1
Insurance reserves, current portion	162.0	152.9
Accrued fees and taxes	140.8	124.2
Accrued dividends	129.2	121.0
Operating right-of-use lease liabilities, current [1]	51.5	—
Ceded insurance reserves, current portion	31.6	25.7
Interest rate swap locks	14.9	—
Accrued professional fees and legal settlement reserves	11.8	13.1
Other	64.7	86.6
Total	$ 814.2	$ 728.6

(1) Refer to Note 2, *Summary of Significant Accounting Policies*, for discussion regarding our adoption of ASC 842.

Other Long-Term Liabilities

A summary of other long-term liabilities as of December 31 follows:

	2019	2018
Operating right-of-use lease liabilities [1]	$ 212.5	$ —
Deferred compensation plan liability	116.1	96.0
Ceded insurance reserves	80.6	68.0
Contingent purchase price and acquisition holdbacks	71.2	73.9
Other derivative liabilities	22.2	—
Withdrawal liability - multiemployer pension funds	12.0	12.2
Legal settlement reserves	10.0	10.0
Pension and other post-retirement liabilities	6.2	6.0
Interest rate swap locks	0.8	—
Other	47.8	55.3
Total	$ 579.4	$ 321.4

(1) Refer to Note 2, *Summary of Significant Accounting Policies*, for discussion regarding our adoption of ASC 842.

Insurance Reserves

Our liabilities for unpaid and incurred but not reported claims as of December 31, 2019 and 2018 (which include claims for workers' compensation, commercial general and auto liability, and employee-related health care benefits) were $438.5 million and $423.7 million, respectively, under our risk management program and are included in other accrued liabilities and insurance reserves, net of current portion, in our consolidated balance sheets. While the ultimate amount of claims incurred depends on future developments, we believe the recorded reserves are adequate to cover the future payment of claims; however, it is possible that these recorded reserves may not be adequate to cover the future payment of claims. Adjustments, if any, to estimates recorded resulting from ultimate claim payments will be reflected in our consolidated statements of income in the periods in which such adjustments are known.

The following table summarizes the activity in our insurance reserves for the years ended December 31:

	2019	2018	2017
Balance at beginning of year	$ 423.7	$ 420.2	$ 418.5
Additions charged to expense	468.5	452.4	432.9
Payments	(479.3)	(461.4)	(448.0)
Accretion expense	0.7	0.9	1.2
Premium written for third party risk assumed	35.5	31.6	29.6
Reclassified to ceded insurance reserves	(10.6)	(20.0)	(14.0)
Balance at end of year	438.5	423.7	420.2
Less: current portion	(162.0)	(152.9)	(144.8)
Long-term portion	$ 276.5	$ 270.8	$ 275.4

8. LANDFILL AND ENVIRONMENTAL COSTS

As of December 31, 2019, we owned or operated 189 active landfills with total available disposal capacity of approximately 5.0 billion in-place cubic yards. Additionally, we have post-closure responsibility for 130 closed landfills.

Accrued Landfill and Environmental Costs

A summary of our accrued landfill and environmental liabilities as of December 31 follows:

	2019	2018
Landfill final capping, closure and post-closure liabilities	$ 1,335.6	$ 1,292.0
Environmental remediation	500.2	540.2
Total accrued landfill and environmental costs	1,835.8	1,832.2
Less: current portion	(132.6)	(130.6)
Long-term portion	$ 1,703.2	$ 1,701.6

Final Capping, Closure and Post-Closure Costs

The following table summarizes the activity in our asset retirement obligation liabilities, which includes liabilities for final capping, closure and post-closure, for the years ended December 31:

	2019	2018	2017
Asset retirement obligation liabilities, beginning of year	$ 1,292.0	$ 1,257.7	$ 1,224.6
Non-cash additions	44.9	43.9	45.2
Acquisitions, net of divestitures and other adjustments	0.2	(0.7)	(20.3)
Asset retirement obligation adjustments	(5.2)	(17.7)	(8.9)
Payments	(78.2)	(71.9)	(62.7)
Accretion expense	81.9	80.7	79.8
Asset retirement obligation liabilities, end of year	1,335.6	1,292.0	1,257.7
Less: current portion	(75.8)	(76.7)	(77.4)
Long-term portion	$ 1,259.8	$ 1,215.3	$ 1,180.3

We review our landfill asset retirement obligations at least annually. As a result, we reduced amortization expense by $10.9 million, $13.2 million and $0.1 million for 2019, 2018 and 2017, respectively, primarily related to changes in estimates and assumptions concerning the anticipated waste flow, cost and timing of future final capping, closure and post-closure activities.

The expected future payments for final capping, closure and post-closure as of December 31, 2019 follows:

2020	$ 75.8
2021	52.4
2022	69.8
2023	72.8
2024	87.1
Thereafter	6,267.9
	$ 6,625.8

The estimated remaining final capping, closure and post-closure expenditures presented above are not inflated and not discounted and reflect the total estimated future payments for liabilities which include those incurred and recorded as of December 31, 2019 as well as liabilities yet to be incurred over the remaining life of our landfills.

Environmental Remediation Liabilities

We accrue for remediation costs when they become probable and can be reasonably estimated. There can sometimes be a range of reasonable estimates of the costs associated with remediation of a site. In these cases, we use the amount within the range that constitutes our best estimate. If no amount within the range appears to be a better estimate than any other, we use the amount that is at the low end of such range. It is reasonably possible that we will need to adjust the liabilities recorded for remediation to reflect the effects of new or additional information, to the extent such information impacts the costs, timing or duration of the required actions. If we used the reasonably possible high ends of our ranges, our aggregate potential remediation liability as of December 31, 2019 would be approximately $365 million higher than the amounts recorded. Future changes in our estimates of the cost, timing or duration of the required actions could have a material adverse effect on our consolidated financial position, results of operations and cash flows.

The following table summarizes the activity in our environmental remediation liabilities for the years ended December 31:

	2019	2018	2017
Environmental remediation liabilities, beginning of year	$ 540.2	$ 564.0	$ 602.9
Net additions charged to expense	(12.5)	5.0	0.4
Payments	(49.1)	(48.8)	(54.8)
Accretion expense (non-cash interest expense)	19.0	20.2	21.0
Acquisitions, net of divestitures and other adjustments	2.6	(0.2)	(5.5)
Environmental remediation liabilities, end of year	500.2	540.2	564.0
Less: current portion	(56.8)	(53.9)	(57.8)
Long-term portion	$ 443.4	$ 486.3	$ 506.2

The expected undiscounted future payments for remediation costs as of December 31, 2019 follows:

2020	$ 56.8
2021	67.0
2022	68.9
2023	61.4
2024	32.7
Thereafter	399.7
	$ 686.5

The following is a discussion of certain of our significant remediation matters:

Bridgeton Landfill. During the year ended December 31, 2019, we paid $16.6 million related to management and monitoring of the remediation area for our closed Bridgeton Landfill in Missouri. We continue to work with state and federal regulatory agencies on our remediation efforts. From time to time, this may require us to modify our future operating timeline and procedures, which could result in changes to our expected liability. As of December 31, 2019, the remediation liability recorded for this site is $144.5 million, of which approximately $15 million is expected to be paid during 2020. We believe the remaining reasonably possible high end of our range would be approximately $163 million higher than the amount recorded as of December 31, 2019.

During 2019 and 2018, we collected insurance recoveries of $24.0 million and $40.0 million, respectively, related to our closed Bridgeton Landfill in Missouri. As such, we recorded a reduction of remediation expenses included in our cost of operations during the years ended December 31, 2019 and 2018.

West Lake Landfill Superfund Site. Our subsidiary Bridgeton Landfill, LLC is one of several currently designated Potentially Responsible Parties for the West Lake Landfill Superfund site (West Lake) in Missouri. On September 27, 2018, the U.S. Environmental Protection Agency (EPA) issued a Record of Decision Amendment for West Lake that includes a total undiscounted cost estimate of $229 million over a four to five-year design and construction timeline. On March 11, 2019, the EPA issued special notice letters under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) to Bridgeton Landfill, LLC and the other currently designated Potentially Responsible Parties to initiate negotiations to implement the remedy. At this time we are neither able to predict the final design of that remedy, nor estimate how much of the future response costs of the site our subsidiary may agree or be required to pay. During any subsequent administrative proceedings or litigation, our subsidiary will vigorously contest liability for the costs of remediating radiologically-impacted materials generated on behalf of the federal government during the Manhattan Project and delivered to the site by an Atomic Energy Commission licensee and its subcontractor. Currently, we believe we are adequately reserved for our expected remediation liability. However, subsequent events related to remedy design, divisibility, or allocation may require us to modify our expected remediation liability.

9. DEBT

The carrying value of our notes payable, finance leases and long-term debt as of December 31, 2019 and 2018 is listed in the following table, and is adjusted for the fair value of interest rate swaps, unamortized discounts, deferred issuance costs and the unamortized portion of adjustments to fair value recorded in purchase accounting. Original issue discounts and adjustments to fair value recorded in purchase accounting are amortized to interest expense over the term of the applicable instrument using the effective interest method.

		2019			2018		
Maturity	Interest Rate	Principal	Adjustments	Carrying Value	Principal	Adjustments	Carrying Value
Credit facilities:							
Uncommitted Credit Facility	Variable	$ 11.6	$ —	$ 11.6	$ 33.4	$ —	$ 33.4
June 2023	Variable	184.4	—	184.4	159.0	—	159.0
Senior notes:							
September 2019	5.500	—	—	—	650.0	(0.9)	649.1
March 2020	5.000	850.0	(0.1)	849.9	850.0	(1.0)	849.0
November 2021	5.250	600.0	(0.8)	599.2	600.0	(1.2)	598.8
June 2022	3.550	850.0	(2.6)	847.4	850.0	(3.6)	846.4
May 2023	4.750	550.0	2.6	552.6	550.0	(5.5)	544.5
August 2024	2.500	900.0	(8.3)	891.7	—	—	—
March 2025	3.200	500.0	(3.6)	496.4	500.0	(4.3)	495.7
July 2026	2.900	500.0	(3.9)	496.1	500.0	(4.4)	495.6
November 2027	3.375	650.0	(5.2)	644.8	650.0	(5.9)	644.1
May 2028	3.950	800.0	(15.7)	784.3	800.0	(17.3)	782.7
March 2035	6.086	181.9	(13.9)	168.0	181.9	(14.4)	167.5
March 2040	6.200	399.9	(3.7)	396.2	399.9	(3.8)	396.1
May 2041	5.700	385.7	(5.3)	380.4	385.7	(5.3)	380.4
Debentures:							
May 2021	9.250	35.3	(0.4)	34.9	35.3	(0.7)	34.6
September 2035	7.400	148.1	(33.0)	115.1	148.1	(33.8)	114.3
Tax-exempt:							
2020 - 2049	1.200 - 1.500	1,122.4	(6.2)	1,116.2	1,042.4	(5.6)	1,036.8
Finance leases:							
2020 - 2049	2.592 - 12.203	119.3	—	119.3	109.5	—	109.5
Total Debt		$ 8,788.6	$ (100.1)	8,688.5	$ 8,445.2	$ (107.7)	8,337.5
Less: current portion				(929.9)			(690.7)
Long-term portion				$ 7,758.6			$ 7,646.8

Future Maturities of Debt

Aggregate principal maturities of notes payable, finance leases and other long-term debt as of December 31, 2019 follow:

2020	$	930.7
2021		770.2
2022		859.1
2023		922.6
2024		928.0
Thereafter		4,378.0
	$	8,788.6

Credit Facilities

In June 2018, we entered into a $2.25 billion unsecured revolving credit facility (the Credit Facility), which replaced our $1.0 billion and $1.25 billion unsecured credit facilities that would have matured in May 2021 and June 2019, respectively. The Credit Facility matures in June 2023. We may request two one-year extensions of the maturity date but none of the lenders are committed to participate in such extension. The Credit Facility also includes a feature that allows us to increase availability, at our option, by an aggregate amount of up to $1.0 billion through increased commitments from existing lenders or the addition of new lenders. At our option, borrowings under the Credit Facility bear interest at a Base Rate, or a Eurodollar Rate, plus an applicable margin based on our Debt Ratings (all as defined in the Credit Facility agreement).

The Credit Facility is subject to facility fees based on applicable rates defined in the Credit Facility agreement and the aggregate commitment, regardless of usage. Availability under our Credit Facility totaled $1,696.9 million and $1,694.1 million as of December 31, 2019 and 2018, respectively. The Credit Facility can be used for working capital, capital expenditures, acquisitions, letters of credit and other general corporate purposes. The Credit Facility agreement requires us to comply with financial and other covenants. We may pay dividends and repurchase common stock if we are in compliance with these covenants.

As of December 31, 2019 and December 31, 2018, we had $184.4 million and $159.0 million of borrowings under our Credit Facility, respectively. We had $351.4 million and $379.6 million of letters of credit outstanding under our Credit Facility as of December 31, 2019 and 2018, respectively.

We also have an Uncommitted Credit Facility, which bears interest at LIBOR, plus an applicable margin. We can use borrowings under the Uncommitted Credit Facility for working capital and other general corporate purposes. The agreement governing our Uncommitted Credit Facility requires us to comply with certain covenants. The Uncommitted Credit Facility may be terminated by either party at any time. We had $11.6 million and $33.4 million of borrowings outstanding under our Uncommitted Credit Facility as of December 31, 2019 and 2018, respectively.

Senior Notes and Debentures

In August 2019, we issued $900.0 million of 2.500% senior notes due 2024 (the 2.500% Notes). We used the net proceeds from the 2.500% Notes to repay $650.0 million of 5.500% senior notes that matured in September 2019. The remaining proceeds were used to repay amounts outstanding under our unsecured credit facilities as well as for general corporate purposes.

In 2018, we issued $800.0 million of 3.950% senior notes due 2028 (the 3.950% Notes). We used the net proceeds from the 3.950% Notes to repay $700.0 million of 3.800% senior notes that matured in May 2018, and the remaining proceeds were used for general corporate purposes. In connection with this offering we terminated interest rate lock agreements with a notional value of $600.0 million resulting in net proceeds of $31.1 million. The proceeds will amortize over the term of the 3.950% Notes using the effective interest method. There was no ineffectiveness recognized in the termination of these cash flow hedges.

Our senior notes are general senior unsecured obligations. Interest is payable semi-annually.

Interest Rate Swap and Lock Agreements

Our ability to obtain financing through the capital markets is a key component of our financial strategy. Historically, we have managed risk associated with executing this strategy, particularly as it relates to fluctuations in interest rates, by using a combination of fixed and floating rate debt. From time to time, we also have entered into interest rate swap and lock agreements to manage risks associated with interest rates, either to effectively convert specific fixed rate debt to a floating rate (fair value hedges), or to lock interest rates in anticipation of future debt issuances (cash flow hedges).

Fair Value Hedges

During the second half of 2013, we entered into various interest rate swap agreements relative to our 4.750% fixed rate senior notes due in May 2023. The goal was to reduce overall borrowing costs and rebalance our debt portfolio's ratio of fixed to floating interest rates. As of December 31, 2019, these swap agreements have a total notional value of $300.0 million and mature in May 2023, which is identical to the maturity of the hedged senior notes. We pay interest at floating rates based on changes in LIBOR and receive interest at a fixed rate of 4.750%. These transactions were designated as fair value hedges because the swaps hedge against the changes in fair value of the fixed rate senior notes resulting from changes in interest rates.

As of December 31, 2019 and 2018, the interest rate swap agreements are reflected at their fair value of $10.7 million and $2.5 million, respectively, and are included in other assets in our consolidated balance sheets. To the extent they are effective, these interest rate swap agreements are included as an adjustment to long-term debt in our consolidated balance sheets. We recognized net interest income of $1.0 million, $1.9 million and $4.8 million, respectively, during 2019, 2018 and 2017 related to net swap settlements for these interest rate swap agreements, which is included as an offset to interest expense in our consolidated statements of income.

For the year ended December 31, 2019, we recognized a loss of $7.5 million and for both of the years ended December 31, 2018 and 2017, we recognized gains of $5.0 million on the change in fair value of the hedged senior notes attributable to changes in the benchmark interest rate, with an offsetting gain of $8.1 million and offsetting losses of $5.4 million and $4.2 million for the years ended December 31, 2019, 2018, and 2017, respectively, on the related interest rate swaps. The difference of these fair value changes for the years ended December 31, 2018 and 2017 was recorded directly in earnings as other income, net. In accordance with our adoption of ASU 2017-12, the difference of these fair value changes for the year ended December 31, 2019 was recorded directly in earnings as an adjustment to interest expense in our consolidated statements of income.

For further detail regarding the effect of our fair value hedging on interest expense, see Note 18, *Financial Instruments*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

Cash Flow Hedges

As of December 31, 2019 and 2018, our interest rate lock agreements had an aggregate notional value of $575.0 million and $725.0 million, respectively, with fixed interest rates ranging from 1.330% to 3.000% and 1.900% to 3.250%, respectively. We entered into these transactions to manage exposure to fluctuations in interest rates in anticipation of planned future issuances of senior notes in 2019 through 2021. Upon the expected issuance of the senior notes, we will terminate the interest rate locks and settle with our counterparties. These transactions were accounted for as cash flow hedges.

The fair value of our interest rate locks was determined using standard valuation models with assumptions about interest rates being based on those observed in underlying markets (Level 2 in the fair value hierarchy). The aggregate fair values of the outstanding interest rate locks as of December 31, 2019 were assets of $3.6 million, which were recorded in prepaid expenses and other current assets in our consolidated balance sheet and liabilities of $15.7 million, which were recorded in other accrued liabilities and other long-term liabilities in our consolidated balance sheet. As of December 31, 2018, the aggregate fair values of the outstanding interest rate locks were assets of $10.3 million and were recorded in other assets in our consolidated balance sheet.

Total unrealized (loss) gain recognized in other comprehensive income for interest rate locks were $(30.2) million, $16.2 million and $0.7 million, net of tax, for the years ended December 31, 2019, 2018, and 2017, respectively.

As of December 31, 2019 and 2018, our previously terminated interest rate locks were recorded as components of accumulated other comprehensive (loss) income of $(4.7) million and $11.2 million, respectively, net of tax. The effective portion of the interest rate locks is amortized as an adjustment to interest expense over the life of the issued debt using the effective interest method. We expect to amortize approximately $2.0 million of net interest expense over the next 12 months as a yield adjustment of our senior notes.

For further detail regarding the effect of our cash flow hedging on interest expense, see Note 18, *Financial Instruments*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

Derivative Contracts

Contemporaneously with the issuance of our 2.500% Notes in August 2019, we amended interest rate lock agreements with a notional value of $375.0 million, extending the mandatory maturity date from 2019 to 2024 and dedesignated them as cash flow hedges (the Extended Interest Rate Swaps). There was no ineffectiveness recognized in the termination of these cash flow hedges. In addition, we entered into an offsetting interest rate swap to offset future exposures to fair value fluctuations of the Extended Interest Rate Swaps (the Offsetting Interest Rate Swaps). The fair value of these free standing derivatives was

determined using standard valuation models with assumptions about interest rates being based on those observed in underlying markets (Level 2 in the fair value hierarchy).

As of December 31, 2019, the fair value of the Extended Interest Rate Swaps was a liability of $22.2 million which was included in other long-term liabilities in our consolidated balance sheet, and the fair value of the Offsetting Interest Rate Swaps was an asset of $2.9 million and was included in other assets in our consolidated balance sheet. For the year ended December 31, 2019, we recognized a loss of $3.4 million on the change in fair value of the Extended Interest Rate Swaps, with an offsetting gain of $2.9 million on the Offsetting Interest Rate Swaps. The change in fair value was recorded directly in earnings as an adjustment to interest expense in our consolidated statements of income.

Tax-Exempt Financings

As of December 31, 2019, we had $1,116.2 million of certain variable rate tax-exempt financings outstanding with maturities ranging from 2020 to 2049. As of December 31, 2018, we had $1,036.8 million of certain variable rate tax-exempt financings outstanding with maturities ranging from 2019 to 2044. All of our tax-exempt financings are remarketed either quarterly or semi-annually by remarketing agents to effectively maintain a variable yield. The holders of the bonds can put them back to the remarketing agents at the end of each interest period. To date, the remarketing agents have been able to remarket our variable rate unsecured tax-exempt bonds. If the remarketing agent is unable to remarket our bonds, the remarketing agent can put the bonds to us. In the event of a failed remarketing, we currently have availability under our $2.25 billion unsecured revolving credit facility to fund these bonds until they are remarketed successfully. Accordingly, we have classified these borrowings as long-term in our consolidated balance sheet as of December 31, 2019.

During the year ended December 31, 2019, we refinanced $35.0 million of tax-exempt financings and issued $30.0 million of new tax-exempt financings. In addition, during the three months ended December 31, 2019, we issued $50.0 million of variable-rate tax-exempt debt. The proceeds from the issuance were used to fund qualifying landfill-related capital expenditures in the state of California.

Finance Leases

We had finance lease liabilities of $119.3 million and $109.5 million as of December 31, 2019 and 2018, respectively, with maturities ranging from 2020 to 2049 and 2019 to 2046, respectively.

Interest Paid

Interest paid, excluding net swap settlements for our fair value hedges, was $346.8 million, $351.0 million and $326.9 million for the years ended December 31, 2019, 2018 and 2017, respectively.

10. LEASES

A summary of the lease classification on our consolidated balance sheet as of December 31, 2019 follows:

		December 31, 2019
Assets		
Operating right-of-use lease assets	Other assets	$ 243.6
Finance lease assets	Property and equipment, net	134.8
Total lease assets		$ 378.4
Liabilities		
Current		
Operating	Other accrued liabilities	$ 51.5
Finance	Notes payable and current maturities of long-term debt	8.9
Long-term		
Operating	Other long-term liabilities	212.5
Finance	Long-term debt, net of current maturities	110.4
Total lease liabilities		$ 383.3

REPUBLIC SERVICES, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS—(Continued)

A summary of the lease cost reflected in our consolidated statements of income for the year ended December 31, 2019 follows:

		December 31, 2019
Operating lease cost		
Fixed lease cost	Cost of operations	$ 41.6
Short-term lease cost	Cost of operations	37.0
Variable lease cost	Cost of operations	17.8
Finance lease cost		
Amortization of leased assets	Depreciation amortization, and depletion	5.5
Interest on lease liabilities	Interest expense	7.5
Variable lease cost	Interest expense	5.6
Total lease cost		$ 115.0

As of December 31, 2019, maturities for operating and finance lease liabilities were as follows:

	Operating Leases	Finance Leases	Total
2020	$ 44.5	$ 17.1	$ 61.6
2021	40.4	15.0	55.4
2022	35.3	15.8	51.1
2023	33.9	38.6	72.5
2024	29.7	11.7	41.4
Thereafter	132.2	124.9	257.1
Total lease payments	316.0	223.1	539.1
Less: interest	(52.0)	(103.8)	(155.8)
Present value of lease liabilities	$ 264.0	$ 119.3	$ 383.3

A summary of the weighted-average remaining lease term and weighted-average discount rate as of December 31, 2019 follows:

	December 31, 2019
Weighted-average remaining lease term (years)	
Operating leases	9.2
Finance leases	14.3
Weighted-average discount rate	
Operating leases	3.9 %
Finance leases	6.7 %

Supplemental cash flow and other non-cash information for the year ended December 31, 2019 follows:

	December 31, 2019
Cash paid for amounts included in the measurement of lease liabilities	
Operating cash flows from operating leases	$ 97.3
Operating cash flows from finance leases	$ 13.1
Financing cash flows from finance leases	$ 6.3
Leased assets obtained in exchange for new finance lease liabilities	$ 15.9
Leased assets obtained in exchange for new operating lease liabilities	$ 47.6

11. INCOME TAXES

The components of the provision for income taxes for the years ended December 31 follow:

	2019	2018	2017
Current:			
Federal	$ 46.1	$ 128.9	$ 358.3
State	40.5	46.9	48.4
Deferred:			
Federal	151.8	121.5	(388.1)
State	18.9	30.6	9.1
State deferred benefit - change in valuation allowance	(4.6)	(4.5)	9.6
Uncertain tax positions and interest, and other	(30.7)	(40.1)	(34.2)
Provision for income taxes	$ 222.0	$ 283.3	$ 3.1

The reconciliations of the statutory federal income tax rate to our effective tax rate for the years ended December 31 follow:

	2019	2018	2017
Federal statutory rate	21.0 %	21.0 %	35.0 %
State income taxes, net of federal benefit	4.2	4.5	3.0
Change in valuation allowance	(0.4)	(0.3)	(0.2)
Non-deductible expenses	1.7	1.9	1.8
Uncertain tax position taxes and interest	(0.3)	(0.5)	—
Investment tax credits	(6.5)	(3.8)	(1.0)
Change in U.S. Tax Law	—	—	(36.2)
Other, net	(2.6)	(1.3)	(2.2)
Effective income tax rate	17.1 %	21.5 %	0.2 %

During 2019, we acquired non-controlling interests in limited liability companies established to construct solar energy assets that qualified for investment tax credits under Section 48 of the Internal Revenue Code. We account for these investments using the equity method of accounting and recognize our share of income or loss and other reductions in the value of our investment in *Loss from unconsolidated equity method investments* within our consolidated statements of income. For further discussion regarding our equity method accounting, see Note 3, *Business Acquisitions, Investments and Restructuring Charges*. Our 2019 tax provision reflects a benefit of approximately $84 million due to the tax credits related to these investments. In addition, our 2019 tax provision was reduced by $13.4 million due to the realization of additional federal and state benefits as well as adjustments to deferred taxes due to the completion of our 2018 tax returns and also reduced by $12.3 million due to excess tax benefits related to stock compensation.

Our 2018 tax provision was reduced by $12.1 million in excess tax benefits related to stock compensation, approximately $50 million related to the tax credits from our non-controlling interests in limited liability companies established to construct solar energy assets, and approximately $6 million due to the realization of tax credits and lower state rates due to changes in estimates following the completion of our 2017 tax returns.

Our 2017 tax provision was reduced by approximately $464 million due to the passage of the Tax Act. In addition, our 2017 tax provision was reduced by $19.6 million in excess tax benefits related to stock compensation, approximately $13 million related to the tax credits from non-controlling interests in limited liability companies established to construct solar energy assets, and approximately $9 million due to the resolution of various state and federal tax matters as well as the realization of tax credits and lower state tax rates due to changes in estimates following the completion of our 2016 tax returns.

We made income tax payments (net of refunds) of approximately $31 million, $210 million and $370 million for 2019, 2018 and 2017, respectively. Income taxes paid in 2019, 2018, and 2017 reflect the passage of the Tax Act which provided for 100% equipment deductions on qualified assets placed in service after September 27, 2017. Cash paid for income taxes (net of refunds) for 2019 was favorably affected by the 100% equipment deductions and tax credits related to our investments in solar energy assets.

The components of the net deferred income tax asset and liability as of December 31 follow:

	2019	2018
Deferred tax liabilities relating to:		
Differences between book and tax basis of property and equipment	$ (938.7)	$ (799.9)
Difference between book and tax basis of intangible assets	(464.5)	(453.3)
Operating right-of-use lease assets	(67.2)	—
Basis difference due to redemption of partnership interests	(84.2)	(88.8)
Total liabilities	$ (1,554.6)	$ (1,342.0)
Deferred tax assets relating to:		
Environmental reserves	$ 241.2	$ 253.2
Accruals not currently deductible	78.0	78.9
Net operating loss carryforwards	127.2	134.3
Difference between book and tax basis of other assets	18.6	13.7
Operating right-of-use lease liabilities	67.4	—
Other	12.8	12.9
Total assets	545.2	493.0
Valuation allowance	(67.6)	(73.5)
Net deferred tax asset	477.6	419.5
Net deferred tax liabilities	$ (1,077.0)	$ (922.5)

Changes in the deferred tax valuation allowance for the years ended December 31 follow:

	2019	2018	2017
Valuation allowance, beginning of year	$ 73.5	$ 72.4	$ 62.3
Additions charged to provision for income taxes	0.1	0.9	12.9
Deferred tax assets realized or written-off	(6.0)	(5.9)	(2.8)
Current year acquisitions	—	6.1	—
Other, net	—	—	—
Valuation allowance, end of year	$ 67.6	$ 73.5	$ 72.4

We have deferred tax assets related to state net operating loss carryforwards. We provide a partial valuation allowance due to uncertainty surrounding the future utilization of these carryforwards in the taxing jurisdictions where the loss carryforwards exist. When determining the need for a valuation allowance, we consider all positive and negative evidence, including recent financial results, scheduled reversals of deferred tax liabilities, projected future taxable income and tax planning strategies. The weight given to the positive and negative evidence is commensurate with the extent such evidence can be objectively verified. We adjust the valuation allowance in the period management determines it is more likely than not that deferred tax assets will or will not be realized.

Substantially all of our valuation allowance is associated with state loss carryforwards. The realization of our deferred tax asset for state loss carryforwards ultimately depends upon the existence of sufficient taxable income in the appropriate state taxing jurisdictions in future periods. We continue to regularly monitor both positive and negative evidence in determining the ongoing need for a valuation allowance.

We have deferred tax assets related to state net operating loss carryforwards with an estimated tax effect of approximately $111 million available as of December 31, 2019. These state net operating loss carryforwards expire at various times between 2019 and 2039. We believe that it is more likely than not that the benefit from some of our state net operating loss carryforwards will not be realized due to limitations on these loss carryforwards in certain states. In recognition of this risk, as of December 31, 2019, we have provided a valuation allowance of approximately $67 million.

As a result of the recent changes in U.S. tax law, as well as our ongoing efforts to streamline and maximize the efficiency of our tax footprint, we could further adjust our valuation allowance in a future period if there is sufficient evidence to support a conclusion that it is more likely than not that certain of the state net operating loss carryforwards, on which we currently provide a valuation allowance, would be realized.

We are subject to income tax in the United States and Puerto Rico, as well as income tax in multiple state jurisdictions. Our compliance with income tax rules and regulations is periodically audited by tax authorities. These authorities may challenge the positions taken in our tax filings. Thus, to provide for certain potential tax exposures, we maintain liabilities for uncertain tax positions for our estimate of the final outcome of the examinations. Our federal statute of limitations is closed for all years prior to 2015. However, we have filed a federal refund claim for the 2014 tax year that may be reviewed in future periods. In addition, we are currently under state examination or administrative review in various jurisdictions for tax years 2012 to 2018.

The following table summarizes the activity in our gross unrecognized tax benefits for the years ended December 31:

	2019	2018	2017
Balance at beginning of year	$ 104.9	$ 39.3	$ 46.1
Additions based on tax positions related to current year	—	—	—
Additions for tax positions of prior years	0.9	75.0	1.7
Reductions for tax positions of prior years	—	(2.3)	(8.0)
Reductions for tax positions resulting from lapse of statute of limitations	(0.2)	(5.1)	(0.5)
Settlements	(4.9)	(2.0)	—
Balance at end of year	$ 100.7	$ 104.9	$ 39.3

During 2019, 2018, and 2017, we resolved tax matters in various states which reduced our gross unrecognized tax benefits by $5.1 million, $9.5 million and $8.5 million, respectively.

Included in our gross unrecognized tax benefits as of December 31, 2019, 2018, and 2017 are $93.0 million, $96.3 million and $31.0 million, respectively, of unrecognized tax benefits (net of the federal benefit on state matters) that, if recognized, would affect our effective income tax rate in future periods. However, we are unable to estimate the resolution of these matters over the next 12 months.

We recognize interest and penalties as incurred within the provision for income taxes in our consolidated statements of income. Related to the unrecognized tax benefits previously noted, we recorded interest expense of approximately $4 million during 2019 and, in total as of December 31, 2019, have recognized a liability for penalties of $0.3 million and interest of $11.6 million.

During 2018, we accrued additional uncertain tax liabilities of approximately $63 million resulting from the filing of our 2017 tax returns and prior year amended tax returns that reflected uncertain tax positions. These additional liabilities for uncertain tax positions had no impact on our effective tax rate.

During 2018, we recorded interest expense of approximately $2 million and, in total as of December 31, 2018, had recognized a liability for penalties of $0.5 million and interest of $11.7 million. During 2017, we accrued interest of approximately $3 million and, in total as of December 31, 2017, had recognized a liability for penalties of $0.5 million and interest of $13.2 million.

We believe the recorded liabilities for uncertain tax positions are adequate. However, a significant assessment against us in excess of the liabilities recorded could have a material adverse effect on our consolidated financial position, results of operations and cash flows.

12. EMPLOYEE BENEFIT PLANS

Stock-Based Compensation

In February 2007, our Board of Directors approved the 2007 Stock Incentive Plan (the 2007 Plan), and in May 2007 our shareholders ratified the 2007 Plan. In March 2011, our Board of Directors approved the Amended and Restated 2007 Stock Incentive Plan (the Amended and Restated 2007 SIP), and in May 2011 our shareholders ratified the Amended and Restated 2007 SIP. In March 2013, our Board of Directors approved the Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan (the Republic Amended and Restated 2007 SIP), and in May 2013 our shareholders ratified the Republic Amended and Restated 2007 SIP (the 2007 Plan, the Amended and Restated 2007 SIP, and the Republic Amended and Restated 2007 SIP are collectively referred to in this Form 10-K as the Amended and Restated 2007 Stock Incentive Plan). We currently have 12.8 million shares of common stock reserved for future grants under the Amended and Restated 2007 Stock Incentive Plan.

In December 2008, our Board of Directors amended and restated the Republic Services, Inc. 2006 Incentive Stock Plan (formerly known as the Allied Waste Industries, Inc. 2006 Incentive Stock Plan) (the 2006 Plan). Allied's shareholders approved the 2006 Plan in May 2006. The 2006 Plan was amended and restated in December 2008 to reflect Republic as the

new sponsor of the 2006 Plan, to reflect that any references to shares of common stock are to shares of common stock of Republic, and to adjust outstanding awards and the number of shares available under the 2006 Plan to reflect the Allied acquisition. The 2006 Plan, as amended and restated, provided for the grant of non-qualified stock options, incentive stock options, shares of restricted stock, shares of phantom stock, stock bonuses, restricted stock units, stock appreciation rights, performance awards, dividend equivalents, cash awards, or other stock-based awards. Awards granted under the 2006 Plan prior to December 5, 2008 became fully vested and non-forfeitable upon the closing of the Allied acquisition. No further awards will be made under the 2006 Plan.

Restricted Stock Units

The following table summarizes restricted stock unit (RSU) activity for the years ended December 31, 2019, 2018 and 2017:

	Number of RSUs (in thousands)	Weighted-Average Grant Date Fair Value per Share	Weighted-Average Remaining Contractual Term (years)	Aggregate Intrinsic Value (in millions)
Unissued as of December 31, 2016	1,823.8	$ 37.49		
Granted	642.5	$ 59.87		
Vested and issued	(602.5)	$ 36.26		
Forfeited	(87.9)	$ 47.86		
Unissued as of December 31, 2017	1,775.9	$ 45.48		
Granted	467.4	$ 64.32		
Vested and issued	(565.0)	$ 41.50		
Forfeited	(85.7)	$ 54.84		
Unissued as of December 31, 2018	1,592.6	$ 51.88		
Granted	392.8	$ 75.11		
Vested and issued	(409.8)	$ 50.40		
Forfeited	(76.1)	$ 65.37		
Unissued as of December 31, 2019	1,499.5	$ 57.63	0.9	$ 134.4
Vested and unissued as of December 31, 2019	573.7	$ 44.41		

During the years ended December 31, 2019, 2018 and 2017, we awarded our non-employee directors 35,376, 36,885 and 47,913 RSUs, respectively, which vested upon issuance.

During the years ended December 31, 2019, 2018 and 2017, we awarded 328,142, 395,495 and 555,561 RSUs, respectively, to executives and employees that vest in four equal annual installments beginning on the anniversary date of the original grant or cliff vest after four years.

During the years ended December 31, 2019, 2018 and 2017, we granted an additional 29,273, 35,071 and 38,986 RSUs, respectively, as dividend equivalents.

The RSUs do not carry any voting or dividend rights, except the right to receive additional RSUs in lieu of dividends.

Compensation Expense

The fair value of RSUs is based on the closing market price on the date of the grant. The compensation expense related to RSUs is amortized ratably over the vesting period, or to the employee's retirement eligible date, if earlier.

During 2019, 2018 and 2017, compensation expense related to RSUs totaled $24.8 million, $24.4 million and $23.5 million, respectively. As of December 31, 2019, total unrecognized compensation expense related to outstanding RSUs was $39.1 million, which will be recognized over a weighted average period of 2.5 years.

Performance Shares

The following table summarizes performance stock unit (PSU) activity for the years ended December 31, 2019, 2018 and 2017:

	Number of PSUs (in thousands)	Weighted Average Grant Date Fair Value per Share
Unissued as of December 31, 2016	504.8	$ 44.40
Granted	316.1	$ 60.48
Vested and issued	—	$ —
Forfeited	(22.2)	$ 53.79
Unissued as of December 31, 2017	798.7	$ 50.52
Granted	374.9	$ 62.26
Vested and issued	(150.7)	$ 39.05
Forfeited	(23.2)	$ 59.76
Unissued as of December 31, 2018	999.7	$ 55.77
Granted	356.1	$ 71.22
Vested and issued	(407.3)	$ 47.11
Forfeited	(29.3)	$ 67.77
Unissued as of December 31, 2019	919.2	$ 65.92

During the years ended December 31, 2019, 2018 and 2017, we awarded 156,931, 168,627 and 116,872 performance shares (PSUs) to our named executive officers, respectively. These awards are performance-based as the number of shares ultimately earned depends on performance against pre-determined targets for return on invested capital (ROIC), cash flow value creation (CFVC), and total shareholder return relative to the S&P 500 index (RTSR). The PSUs are payable 50% in shares of common stock and 50% in cash after the end of a three-year performance period, when our financial performance for the entire performance period is reported, typically in February of the succeeding year. At the end of the performance period, the number of PSUs awarded can range from 0% to 150% of the targeted amount, depending on the performance against the pre-determined targets.

During the years ended December 31, 2019, 2018 and 2017, we awarded 181,589, 187,036, and 183,908 PSUs to our employees other than our named executive officers, respectively. The PSUs are payable 100% in shares of common stock after the end of a three-year performance period, when our financial performance for the entire performance period is reported, typically in February of the succeeding year. At the end of the performance period, the number of PSUs awarded can range from 0% to 150% of the targeted amount, depending on the performance against the pre-determined targets.

During the years ended December 31, 2019, 2018 and 2017, we granted an additional 17,612, 19,204, and 15,330 PSUs, respectively, as dividend equivalents.

The PSUs do not carry any voting or dividend rights, except the right to accumulate additional PSUs in lieu of dividends.

Compensation Expense

For the stock-settled portion of the award that vests based on future ROIC and CFVC performance, compensation expense is measured using the fair value of our common stock at the grant date. For the cash-settled portion of the award that vests based on future ROIC and CFVC performance, compensation expense is recorded based on the fair value of our common stock at the end of each reporting period. Compensation expense is recognized ratably over the performance period based on our estimated achievement of the established performance criteria. Compensation expense is only recognized for the portion of the award that we expect to vest, which we estimate based on an assessment of the probability that the performance criteria will be achieved.

For the stock-settled portion of the award that vests based on RTSR, the grant date fair value is based on a Monte Carlo valuation and compensation expense is recognized on a straight-line basis over the vesting period. For the cash-settled portion of the award that vests based on RTSR, compensation expense also incorporates the fair value of our PSUs at the end of each reporting period. Compensation expense is recognized for the RTSR portion of the award whether or not the market conditions are achieved.

During 2019, 2018 and 2017, compensation expense related to PSUs totaled $22.5 million, $20.3 million, and $16.8 million, respectively. As of December 31, 2019, total unrecognized compensation expense related to outstanding PSUs was $19.3 million, which will be recognized over a weighted average period of 0.9 years.

Defined Benefit Pension Plan

We currently have one qualified defined benefit pension plan, the BFI Retirement Plan (the Plan). The Plan covers certain employees in the United States, including some employees subject to collective bargaining agreements.

The Plan benefits are frozen. Interest credits continue to be earned by participants in the Plan, and participants whose collective bargaining agreements provide for additional benefit accruals under the Plan continue to receive those credits in accordance with the terms of their bargaining agreements. The Plan was converted from a traditional defined benefit plan to a cash balance plan in 1993.

Prior to the conversion to the cash balance design, benefits payable as a single life annuity under the Plan were based on the participant's highest five years of earnings out of the last ten years of service. Upon conversion to the cash balance plan, the existing accrued benefits were converted to a lump-sum value using the actuarial assumptions in effect at the time. Participants' cash balance accounts are increased until retirement by certain benefit and interest credits under the terms of their bargaining agreements. Participants may elect early retirement with the attainment of age 55 and completion of ten years of credited service at reduced benefits. Participants with 35 years of service may retire at age 62 without any reduction in benefits.

Our pension contributions are made in accordance with funding standards established by the Employee Retirement Income Security Act of 1974 and the Internal Revenue Code, as amended by the Pension Protection Act enacted in 2006 (the PPA). No contributions were made in 2019 or 2018.

We must separately recognize the overfunded or underfunded status of the Plan as an asset or liability. The funded status represents the difference between the projected benefit obligation (PBO) and the fair value of the Plan assets. The PBO is equal to the accumulated benefit obligation (ABO) as the Plan is frozen, and the present value of liabilities is not affected by future salary increases. We use a measurement date that coincides with our year end of December 31.

The following table presents the ABO and reconciliations of the changes in the PBO, the Plan assets and the accounting funded status of our defined benefit pension plan for the years ended December 31:

	Defined Benefit Pension Plan	
	2019	2018
Accumulated benefit obligation	$ 218.0	$ 220.7
Change in projected benefit obligation:		
Projected benefit obligation at beginning of year	$ 220.7	$ 242.8
Interest cost	8.9	8.2
Actuarial (gain) loss	19.0	(11.1)
Benefits paid	(30.6)	(19.2)
Projected benefit obligation at end of year	$ 218.0	$ 220.7
Change in plan assets:		
Fair value of plan assets at beginning of year	$ 230.1	$ 256.9
Actual return on plan assets	29.0	(6.0)
Estimated expenses	(1.9)	(1.6)
Benefits paid	(30.6)	(19.2)
Fair value of plan assets at end of year	$ 226.6	$ 230.1
Over funded status	$ 8.6	$ 9.4
Amounts recognized in the statement of financial position consist of:		
Noncurrent assets	$ 8.6	$ 9.4
Net amount recognized	$ 8.6	$ 9.4
Weighted average assumptions used to determine benefit obligations:		
Discount rate	3.06 %	4.21 %
Rate of compensation increase	N/A	N/A

The amounts included in accumulated other comprehensive income on the consolidated balance sheets that have not yet been recognized as components of net periodic benefit cost as of December 31, 2019 and 2018 were $20.8 million and $24.5 million, respectively.

The components of the net periodic benefit cost for the years ended December 31 are summarized below:

	2019	2018	2017
Components of net periodic benefit cost:			
Interest cost	$ 8.9	$ 8.2	$ 9.3
Expected return on plan assets	(9.7)	(11.3)	(10.8)
Recognized net actuarial (gain)	(0.1)	(1.1)	(0.4)
Amortization of prior service cost	0.1	0.1	0.1
Net periodic benefit (income)	$ (0.8)	$ (4.1)	$ (1.8)
Weighted average assumptions used to determine net periodic benefit cost:			
Discount rate	4.21 %	3.55 %	4.07 %
Expected return on plan assets	5.20 %	5.35 %	5.36 %
Rate of compensation increase	N/A	N/A	N/A

We determine the discount rate used in the measurement of our obligations based on a model that matches the timing and amount of expected benefit payments to maturities of high quality bonds priced as of the Plan measurement date. When that timing does not correspond to a published high-quality bond rate, our model uses an expected yield curve to determine an appropriate current discount rate. The yields on the bonds are used to derive a discount rate for the liability. The term of our obligation, based on the expected retirement dates of our workforce, is approximately seven years.

In developing our expected rate of return assumption, we have evaluated the actual historical performance and long-term return projections of the Plan assets, which give consideration to the asset mix and the anticipated timing of the Plan outflows. We employ a total return investment approach whereby a mix of equity and fixed income investments are used to maximize the long-term return of Plan assets for what we consider a prudent level of risk. The intent of this strategy is to minimize Plan expenses by outperforming Plan liabilities over the long run. Risk tolerance is established through careful consideration of Plan liabilities, Plan funded status and our financial condition. The investment portfolio contains a diversified blend of equity and fixed income investments. Furthermore, equity investments are diversified across U.S. and non-U.S. stocks as well as growth, value, and small and large capitalizations. Derivatives may be used to gain market exposure in an efficient and timely manner; however, derivatives may not be used to leverage the portfolio beyond the market value of the underlying investments. Investment risk is measured and monitored on an ongoing basis through annual liability measurements, periodic asset and liability studies, and quarterly investment portfolio reviews.

The following table summarizes our target asset allocation as of December 31, 2019 and the actual asset allocation as of December 31, 2019 and 2018 for our Plan:

	December 31, 2019 Target Asset Allocation	December 31, 2019 Actual Asset Allocation	December 31, 2018 Actual Asset Allocation
Debt securities	82 %	83 %	83 %
Equity securities	18	17	17
Total	100 %	100 %	100 %

Asset allocations are reviewed and rebalanced periodically based on funded status. For 2020, the investment strategy for Plan assets is to maintain a broadly diversified portfolio designed to achieve our target of an average long-term rate of return of 4.45%. While we believe we can achieve a long-term average return of 4.45%, we cannot be certain that the portfolio will perform to our expectations. Assets are strategically allocated among debt and equity portfolios to achieve a diversification level that reduces fluctuations in investment returns. Asset allocation target ranges and strategies are reviewed periodically with the assistance of an independent external consulting firm.

The Plan assets are measured at fair value. The following table summarizes, by level, within the fair value hierarchy, the investments of the Plan at fair value as of December 31, 2019 and 2018:

	Total as of December 31, 2019	Fair Value Measurements Using		
		Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Money market accounts	$ 11.3	$ 11.3	$ —	$ —
Mutual funds	215.3	—	215.3	—
Total assets	$ 226.6	$ 11.3	$ 215.3	$ —

	Total as of December 31, 2018	Fair Value Measurements Using		
		Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Money market accounts	$ 4.0	$ 4.0	$ —	$ —
Mutual funds	226.1	—	226.1	—
Total assets	$ 230.1	$ 4.0	$ 226.1	$ —

Estimated future benefit payments for the next ten years under the Plan follow:

2020	$ 21.4
2021	$ 20.3
2022	$ 19.5
2023	$ 18.6
2024	$ 17.8
2025 through 2029	$ 72.7

Collective Bargaining Agreements

As of December 31, 2019, approximately 24% of our workforce was covered by collective bargaining agreements (CBAs), and approximately 4% of our workforce was covered by CBAs that will expire during 2020.

Multiemployer Pension Plans

We participate in multiemployer pension plans that generally provide retirement benefits to participants of contributing employers. We do not administer these plans. In general, these plans are managed by a board of trustees with the unions appointing certain trustees and other contributing employers of the plan appointing certain members. We generally are not represented on the board of trustees.

Based on the information available to us, we believe that some of the multiemployer plans to which we contribute are either critical or endangered as those terms are defined in the Pension Protection Act (PPA). The PPA requires underfunded pension plans to improve their funding ratios within prescribed intervals based on the level of their underfunding. Until the plan trustees develop the funding improvement plans or rehabilitation plans as required by the PPA, we cannot determine the amount of assessments we may be subject to, if any. Accordingly, we cannot presently determine the effect that the PPA may have on our consolidated financial position, results of operations or cash flows.

Furthermore, under current law regarding multiemployer benefit plans, a plan's termination, our voluntary withdrawal (which we consider from time to time), or the mass withdrawal of all contributing employers from any under-funded multiemployer pension plan would require us to make payments to the plan for our proportionate share of the multiemployer plan's unfunded vested liabilities. It is possible that there may be a mass withdrawal of employers contributing to these plans or plans may terminate in the near future. We could have adjustments to our estimates for these matters in the near term that could have a material effect on our consolidated financial position, results of operations and cash flows.

Republic's participation in individually significant multiemployer pension plans for the year ended December 31, 2019 is outlined in the table below. Only with respect to multiemployer pension plans, we considered contributions in excess of $2.0 million in any period disclosed to be individually significant. The most recent PPA zone status available in 2019 and 2018 is for the plans' year ended September 30, or December 31, 2018 and 2017, respectively. The status is based on information that Republic received from the plans and is certified by the plans' actuary. Among other factors, plans in the critical red zone are generally less than 65% funded, plans in the endangered yellow zone are less than 80% funded, and plans in the safe green zone are at least 80% funded. Plans in the critical and declining zone are classified as critical and projected to be insolvent in the current year or any of the 14 following plan years. The last column lists the expiration dates of the CBAs to which the plans are subject. There have been no significant changes that affect the comparability of the 2019, 2018 and 2017 contributions.

		Pension Protection Act Zone Status		Funding Improvement or Rehabilitation Plan Status Pending /	Republic Contributions to Plan			Surcharge	Expiration Dates
Legal Plan Name	EIN	2018	2017	Implemented	2019	2018	2017	Imposed	of CBAs
Local 731 Private Scavengers and Garage Attendants Pension Trust Fund	36-6513567	Safe	Safe	Implemented	$ 9.3	$ 9.7	$ 10.2	No	Various dates through 9/30/23
Western Conference of Teamsters Pension Plan	91-6145047	Safe	Safe	No	45.1	44.3	39.5	No	Various dates through 6/30/24
New England Teamsters & Trucking Industry Pension	04-6372430	Critical and Declining	Critical and Declining	Implemented	3.5	3.2	3.2	No	06/30/20
Midwest Operating Engineers Pension Fund	36-6140097	Endangered	Endangered	Implemented	2.4	2.1	2.2	No	Various dates through 5/31/21
Individually significant plans					60.3	59.3	55.1		
All other plans	N/A	N/A	N/A	N/A	11.8	10.1	9.6	N/A	
Total					$ 72.1	$ 69.4	$ 64.7		

We are listed in the Form 5500 for Local 731 Private Scavengers and Garage Attendants Pension Trust Fund as providing more than 5% of the total contributions. At the date these financial statements were issued, Forms 5500 were not available for the plan years ended in 2019.

Defined Contribution Plan

We maintain the Republic Services 401(k) Plan (the 401(k) Plan), which is a defined contribution plan covering all eligible employees. Under the 401(k) Plan, participants may direct us to defer a portion of their compensation to the 401(k) Plan, subject to Internal Revenue Code limitations. We provide for an employer matching contribution equal to 100% of the first 3% of eligible compensation and 50% of the next 2% of eligible compensation contributed by each employee, which is funded in cash. All contributions vest immediately.

Total expense recorded for matching 401(k) contributions in 2019, 2018 and 2017 was $55.7 million, $51.7 million and $46.8 million, respectively.

Deferred Compensation Plan

We provide eligible Republic employees, officers and directors with the opportunity to voluntarily defer base salary, bonus payments, long-term incentive awards and other compensation, as applicable, on a pre-tax basis through the Republic Services, Inc. Deferred Compensation Plan (the DCP). The DCP is a nonqualified deferred compensation plan that conforms to Section 409A of the Internal Revenue Code. Eligible participants can defer up to 80% of base salary and up to 100% of bonus, long-term compensation and directors' fees. Under the DCP, some participants also are eligible for matching contributions. The matching contribution under the DCP is equal to the lesser of 2% of the participant's compensation over established 401(k) limits or 50% of the amount the participant has deferred. The DCP participants have no ownership or security interest in any of the amounts deferred or the measurement funds under the DCP. The right of each participant in the DCP is solely that of a general, unsecured creditor of Republic with respect to his or her own interest under the DCP. Deferred amounts may be subject to forfeiture and are deemed invested among investment funds offered under the DCP, as directed by each participant. Payments of deferred amounts are payable following separation from service or at a date or dates elected by the participant

when the deferral is elected. Payments of deferred amounts are made in either a lump sum or in annual installments over a period not exceeding 15 years.

Republic invested in corporate-owned life insurance policies to satisfy future obligations under the DCP. These corporate-owned life insurance policies are held in a Rabbi Trust and are recorded at the amount that can be realized under insurance contracts at the balance sheet date, which is the cash surrender value adjusted for other charges or other amounts due that are probable at settlement. The aggregate cash surrender value of these life insurance policies was $118.0 million and $100.0 million as of December 31, 2019 and 2018, respectively, and is classified in other assets in our consolidated balance sheets. The DCP liability was $116.1 million and $96.0 million as of December 31, 2019 and 2018, respectively, and is classified in other long-term liabilities in our consolidated balance sheets.

Employee Stock Purchase Plan

Republic employees are eligible to participate in an employee stock purchase plan. The plan allows participants to purchase our common stock for 95% of its quoted market price on the last day of each calendar quarter. For the years ended December 31, 2019, 2018 and 2017, issuances under this plan totaled 107,522 shares, 117,153 shares and 113,941 shares, respectively. As of December 31, 2019, shares reserved for issuance to employees under this plan totaled 2.8 million and Republic held employee contributions of approximately $2.2 million for the purchase of common stock.

13. SHARE REPURCHASES AND DIVIDENDS

Share Repurchases

Share repurchase activity during the years ended December 31, 2019 and 2018 follows (in millions except per share amounts):

	2019	2018
Number of shares repurchased	4.9	10.7
Amount paid	$ 399.4	$ 736.9
Weighted average cost per share	$ 82.13	$ 69.06

As of December 31, 2019, there were no repurchased shares pending settlement.

In October 2017, our Board of Directors added $2.0 billion to the existing share repurchase authorization that now extends through December 31, 2020. Share repurchases under the program may be made through open market purchases or privately negotiated transactions in accordance with applicable federal securities laws. While the Board of Directors has approved the program, the timing of any purchases, the prices and the number of shares of common stock to be purchased will be determined by our management, at its discretion, and will depend upon market conditions and other factors. The share repurchase program may be extended, suspended or discontinued at any time. As of December 31, 2019, the remaining authorized purchase capacity under our October 2017 repurchase program was $704.6 million.

Dividends

In October 2019, our Board of Directors approved a quarterly dividend of $0.405 per share. Cash dividends declared were $499.4 million, $468.4 million and $446.3 million for the years ended December 31, 2019, 2018 and 2017, respectively. As of December 31, 2019, we recorded a quarterly dividend payable of $129.2 million to shareholders of record at the close of business on January 2, 2020.

14. EARNINGS PER SHARE

Basic earnings per share is computed by dividing net income attributable to Republic Services, Inc. by the weighted average number of common shares (including vested but unissued RSUs) outstanding during the period. Diluted earnings per share is based on the combined weighted average number of common shares and common share equivalents outstanding, which include, where appropriate, the assumed exercise of employee stock options, unvested RSUs and unvested PSUs at the expected attainment levels. We use the treasury stock method in computing diluted earnings per share.

Earnings per share for the years ended December 31, 2019, 2018, and 2017 are calculated as follows (in thousands, except per share amounts):

	2019	2018	2017
Basic earnings per share:			
Net income attributable to Republic Services, Inc.	$ 1,073,286	$ 1,036,898	$ 1,278,374
Weighted average common shares outstanding	321,058	326,897	337,051
Basic earnings per share	$ 3.34	$ 3.17	$ 3.79
Diluted earnings per share:			
Net income attributable to Republic Services, Inc.	$ 1,073,286	$ 1,036,898	$ 1,278,374
Weighted average common shares outstanding	321,058	326,897	337,051
Effect of dilutive securities:			
Options to purchase common stock	247	745	1,246
Unvested RSU awards	254	250	346
Unvested PSU awards	431	491	338
Weighted average common and common equivalent shares outstanding	321,990	328,383	338,981
Diluted earnings per share	$ 3.33	$ 3.16	$ 3.77

There were no antidilutive securities during the years ended December 31, 2019, 2018, and 2017.

15. SEGMENT REPORTING

Our senior management evaluates, oversees and manages the financial performance of our operations through two field groups, referred to as Group 1 and Group 2. Group 1 primarily consists of geographic areas located in the western United States, and Group 2 primarily consists of geographic areas located in the southeastern and mid-western United States, and the eastern seaboard of the United States. These two groups are presented below as our reportable segments, which provide integrated waste management services consisting of non-hazardous solid waste collection, transfer, recycling, disposal and environmental services.

Summarized financial information concerning our reportable segments for the years ended December 31, 2019, 2018 and 2017 follows:

	Gross Revenue	Intercompany Revenue	Net Revenue	Depreciation, Amortization, Depletion and Accretion	Operating Income (Loss)	Capital Expenditures	Total Assets
2019:							
Group 1	$ 6,012.5	$ (1,010.6)	$ 5,001.9	$ 493.8	$ 1,234.6	$ 551.3	$ 11,404.0
Group 2	6,007.2	(864.7)	5,142.5	503.7	961.4	555.0	9,448.9
Corporate entities	173.3	(18.3)	155.0	124.9	(408.8)	100.8	1,830.9
Total	$12,193.0	$ (1,893.6)	$ 10,299.4	$ 1,122.4	$ 1,787.2	$ 1,207.1	$ 22,683.8
2018:							
Group 1	$ 5,796.5	$ (984.5)	$ 4,812.0	$ 484.9	$ 1,156.9	$ 515.8	$ 11,011.5
Group 2	5,928.0	(857.0)	5,071.0	493.7	938.5	452.5	8,999.2
Corporate entities	173.8	(15.9)	157.9	135.5	(359.6)	103.5	1,606.3
Total	$11,898.3	$ (1,857.4)	$ 10,040.9	$ 1,114.1	$ 1,735.8	$ 1,071.8	$ 21,617.0
2017:							
Group 1	$ 5,961.3	$ (1,085.0)	$ 4,876.3	$ 477.1	$ 1,135.1	$ 529.5	$ 10,734.3
Group 2	5,844.8	(928.4)	4,916.4	508.8	945.9	361.1	8,855.4
Corporate entities	265.0	(16.2)	248.8	130.2	(412.5)	99.2	1,557.3
Total	$12,071.1	$ (2,029.6)	$ 10,041.5	$ 1,116.1	$ 1,668.5	$ 989.8	$ 21,147.0

Financial information for the year ended December 31, 2017 reflects the transfer of certain areas between our two field groups.

Intercompany revenue reflects transactions within and between segments that generally are made on a basis intended to reflect the market value of such services. Capital expenditures for corporate entities primarily include vehicle inventory acquired but not yet assigned to operating locations and facilities. Corporate functions include legal, tax, treasury, information technology, risk management, human resources, closed landfills and other administrative functions.

16. REVENUE

Our operations primarily consist of providing collection, transfer and disposal of non-hazardous solid waste, recovering and recycling of certain materials, and environmental services. The following table disaggregates our revenue by service line for the years ended December 31 (in millions of dollars and as a percentage of revenue):

	2019		2018		2017	
Collection:						
Residential	$ 2,271.9	22.1 %	$ 2,236.5	22.3 %	$ 2,285.7	22.8 %
Small-container	3,170.0	30.8	3,059.1	30.5	2,995.6	29.8
Large-container	2,249.6	21.8	2,184.7	21.8	2,087.9	20.8
Other	46.1	0.4	43.8	0.4	44.2	0.4
Total collection [1]	7,737.6	75.1	7,524.1	75.0	7,413.4	73.8
Transfer	1,318.6		1,244.9		1,209.5	
Less: intercompany	(748.0)		(713.8)		(703.8)	
Transfer, net	570.6	5.5	531.1	5.3	505.7	5.0
Landfill	2,328.8		2,291.7		2,224.3	
Less: intercompany	(1,028.7)		(1,020.8)		(985.5)	
Landfill, net	1,300.1	12.6	1,270.9	12.6	1,238.8	12.3
Environmental services	191.8	1.9	194.7	1.9	149.0	1.5
Other:						
Recycling processing and commodity sales [2]	273.2	2.7	297.8	3.0	539.2	5.4
Other non-core	226.1	2.2	222.3	2.2	195.4	2.0
Total other	499.3	4.9	520.1	5.2	734.6	7.4
Total revenue	$ 10,299.4	100.0 %	$ 10,040.9	100.0 %	$ 10,041.5	100.0 %

(1) In accordance with our adoption of the new revenue recognition standard, municipal franchise fees are presented as a reduction to revenue for the years ended December 31, 2019 and 2018. Similar fees are presented as a cost of operations for the year ended December 31, 2017.

(2) In accordance with our adoption of the new revenue recognition standard, rebates paid to customers associated with recycled commodities are presented as a reduction to revenue for the years ended December 31, 2019 and 2018. Similar costs are presented as a cost of operations for the year ended December 31, 2017.

Other non-core revenue consists primarily of revenue from National Accounts, which represents the portion of revenue generated from nationwide or regional contracts in markets outside our operating areas where the associated waste handling services are subcontracted to local operators. Consequently, substantially all of this revenue is offset with related subcontract costs, which are recorded in cost of operations.

The factors that impact the timing and amount of revenue recognized for each service line may vary based on the nature of the service performed. Generally, we recognize revenue at the time we perform a service. In the event that we bill for services in advance of performance, we recognize deferred revenue for the amount billed and subsequently recognize revenue at the time the service is provided. Depending upon the nature of the contract, we may also generate revenue through the collection of fuel recovery fees and environmental fees which are designed to recover our internal costs of providing services to our customers. See Note 15, *Segment Reporting*, for additional information regarding revenue by reportable segment.

Revenue by Service Line

Collection Services

Our collection business involves the collection of waste for transport to transfer stations, or directly to landfills or recycling processing centers. Our solid waste collection services business includes both recurring and temporary customer relationships. Our standard contract duration is three years, although some of our exclusive franchises are for significantly longer periods. The

fees received for collection services are based primarily on the market, collection frequency, type of service, type and volume or weight of the waste collected, the distance to the disposal facility and the cost of disposal.

In general, small-container and residential collection fees are billed monthly or quarterly in advance. Substantially all of the deferred revenue recognized as of December 31, 2018 was recognized as revenue during the year ended December 31, 2019 when the service was performed. Our large-container customers are typically billed on a monthly basis based on the nature of the services provided during the period.

Revenue recognized under these agreements is variable in nature based on the number of residential homes or businesses serviced during the period, the frequency of collection and the volume of waste collected. In addition, certain of our contracts have annual price escalation clauses that are tied to changes in an underlying base index such as a consumer price index which are unknown at contract inception.

Transfer Services

Revenue at our transfer stations is primarily generated by charging tipping or disposal fees. The fees received for transfer services are based primarily on the market, type and volume or weight of the waste accepted, the distance to the disposal facility and the cost of disposal. In general, fees are billed and revenue is recognized at the time the service is performed. Revenue recognized under these agreements is variable in nature based on the volume and nature of the waste accepted at the transfer station.

Landfill Services

Revenue at our landfills is primarily generated by charging tipping fees to third parties based on the volume disposed and the nature of the waste. In general, fees are variable in nature and revenue is recognized at the time the waste is disposed at the facility.

Environmental Services

Environmental services waste is generated from the by-products of oil and natural gas exploration and production activity. Additionally, it is generated by the daily operations of industrial, petrochemical and refining facilities, including maintenance, plant turnarounds and capital projects. Environmental Services revenue is primarily generated through the disposal of non-hazardous solid and liquid waste and in-plant services, such as transportation and logistics. Activity for this service line varies across market areas that are tied to the natural resource basins in which the drilling activity occurs and reflects the regulatory environment, pricing and disposal alternatives available in any given market. Revenue recognized under these agreements is variable in nature and primarily based on the volume of waste accepted or processed during the period.

Recycling Processing and Commodity Sales

Our recycling processing centers generate revenue through the processing and sale of old corrugated cardboard (OCC), old newsprint (ONP), aluminum, glass and other materials at market prices. In certain instances, we issue recycling rebates to our municipal or large-container customers, which can be based on the price we receive upon the final sale of recycled commodities, a fixed contractual rate or other measures. We also receive rebates when we dispose of recycled commodities at third-party facilities. The fees received are based primarily on the market, type and volume or weight of the materials sold. In general, fees are billed and revenue is recognized at the time title is transferred. Revenue recognized under these agreements is variable in nature based on the volume and type of materials sold. In addition, the amount of revenue recognized is based on commodity prices at the time of sale, which are unknown at contract inception.

Revenue Recognition

Our service obligations of a long-term nature, e.g., certain solid waste collection service contracts, are satisfied over time, and we recognize revenue based on the value provided to the customer during the period. The amount billed to the customer is based on variable elements such as the number of residential homes or businesses for which collection services are provided, the volume of waste collected, transported and disposed, and the nature of the waste accepted. We do not disclose the value of unsatisfied performance obligations for these contracts as our right to consideration corresponds directly to the value provided to the customer for services completed to date and all future variable consideration is allocated to wholly unsatisfied performance obligations.

Additionally, certain elements of our long-term customer contracts are unknown upon entering into the contract, including the amount that will be billed in accordance with annual price escalation clauses, our fuel recovery fee program and commodity prices. The amount to be billed is often tied to changes in an underlying base index such as a consumer price index or a fuel or commodity index, and revenue can be recognized once the index is established for the period.

Deferred Contract Costs

We incur certain upfront payments to acquire customer contracts which are recognized as other assets in our consolidated balance sheet, and we amortize the asset over the respective contract life. In addition, we recognize sales commissions that represent an incremental cost of the contract as other assets in our consolidated balance sheet, and we amortize the asset over the average life of the customer relationship. As of December 31, 2019 and 2018, we recognized $83.1 million and $89.2 million, respectively, of deferred contract costs and capitalized sales commissions. During the years ended December 31, 2019 and 2018, we amortized $11.8 million and $11.1 million, respectively, of capitalized sales commissions to selling, general and administrative expenses, and $6.2 million and $5.9 million, respectively, of other deferred contract costs as a reduction of revenue.

17. CHANGES IN ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS) BY COMPONENT

A summary of changes in accumulated other comprehensive income (loss), net of tax, by component, for the years ended December 31, 2019, 2018 and 2017 follows:

	Cash Flow Hedges	Defined Benefit Pension Plan	Total
Balance as of December 31, 2016	$ (3.3)	$ 17.5	$ 14.2
Other comprehensive income (loss) before reclassifications	(0.6)	3.7	3.1
Amounts reclassified from accumulated other comprehensive loss	5.3	—	5.3
Net current-period other comprehensive income	4.7	3.7	8.4
Balance as of December 31, 2017	1.4	21.2	22.6
Other comprehensive income (loss) before reclassifications	18.5	(6.5)	12.0
Amounts reclassified from accumulated other comprehensive loss	(3.8)	—	(3.8)
Net current period other comprehensive income (loss)	14.7	(6.5)	8.2
Balance as of December 31, 2018	16.1	14.7	30.8
Other comprehensive loss before reclassifications	(30.2)	(2.5)	(32.7)
Amounts reclassified from accumulated other comprehensive income	1.0	—	1.0
Net current period other comprehensive loss	(29.2)	(2.5)	(31.7)
Adoption of accounting standard	(0.6)	3.7	3.1
Balance as of December 31, 2019	$ (13.7)	$ 15.9	$ 2.2

A summary of reclassifications out of accumulated other comprehensive income (loss) for the years ended December 31, 2019, 2018 and 2017 follows:

Details about Accumulated Other Comprehensive Income Components	Amount Reclassified from Accumulated Other Comprehensive Income (Loss) 2019	2018	2017	Affected Line Item in the Statement Where Net Income is Presented
Gain (loss) on cash flow hedges:				
Recycling commodity hedges	$ —	$ 1.1	$ (2.8)	Revenue
Fuel hedges	—	4.3	(3.3)	Cost of operations
Terminated interest rate locks	(1.4)	(0.3)	(2.7)	Interest expense
Total before tax	(1.4)	5.1	(8.8)	
Tax expense	0.4	(1.3)	3.5	
Total (loss) gain reclassified into earnings, net of tax	$ (1.0)	$ 3.8	$ (5.3)	

18. FINANCIAL INSTRUMENTS

The effect of our derivative instruments in fair value and cash flow hedging relationships on the consolidated statements of income for the years ended December 31, 2019, 2018 and 2017 follows (in millions):

	Classification and Amount of Gain (Loss) Recognized in Income on Fair Value and Cash Flow Hedging Relationships		
	2019	2018	2017
	Interest Expense	Interest Expense	Interest Expense
Total amounts of expense line items presented in the consolidated statements of income in which the effects of fair value or cash flow hedges are recorded	$ (392.0)	$ (383.8)	$ (361.9)
The effects of fair value and cash flow hedging:			
Gain (loss) on fair value hedging relationships:			
Interest rate swaps:			
Net swap settlements	$ 1.0	$ 1.9	$ 4.8
Net periodic earnings[(1)]	$ 0.6	$ (0.4)	$ 0.9
Gain (loss) on cash flow hedging relationships:			
Interest rate swap locks:			
Amount of gain (loss) reclassified from AOCI into income, net of tax	$ (1.0)	$ 3.8	$ (5.3)

(1) During 2018 and 2017 (prior to adoption of ASU 2017-12), all net periodic earnings for fair value hedges were recorded to other income, net. To align the effect of the hedging relationship with the activity of the hedged item, beginning January 1, 2019, all net periodic earnings on fair value hedges are presented within interest expense in our consolidated statements of income.

Fair Value Measurements

In measuring fair values of assets and liabilities, we use valuation techniques that maximize the use of observable inputs (Level 1) and minimize the use of unobservable inputs (Level 3). We also use market data or assumptions that we believe market participants would use in pricing an asset or liability, including assumptions about risk when appropriate.

The carrying value for certain of our financial instruments, including cash, accounts receivable, accounts payable and certain other accrued liabilities, approximates fair value because of their short-term nature.

As of December 31, 2019 and 2018, our assets and liabilities that are measured at fair value on a recurring basis include the following:

	December 31, 2019				
		Fair Value			
	Carrying Amount	Total	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Assets:					
Money market mutual funds	$ 43.0	$ 43.0	$ 43.0	$ —	$ —
Bonds - restricted cash and marketable securities and other assets	51.6	51.6	—	51.6	—
Interest rate locks - prepaid expenses and other current assets	3.6	3.6	—	3.6	—
Interest rate swaps - other assets	10.7	10.7	—	10.7	—
Other derivative assets - other assets	2.9	2.9	—	2.9	—
Total assets	$ 111.8	$ 111.8	$ 43.0	$ 68.8	$ —
Liabilities:					
Other derivative liabilities - other long term liabilities	$ 22.2	$ 22.2	$ —	$ 22.2	$ —
Interest rate locks - other accrued liabilities and other long-term liabilities	15.7	15.7	—	15.7	—
Contingent consideration - other accrued liabilities and other long-term liabilities	72.0	72.0	—	—	72.0
Total liabilities	$ 109.9	$ 109.9	$ —	$ 37.9	$ 72.0

	December 31, 2018				
		Fair Value			
	Carrying Amount	Total	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Assets:					
Money market mutual funds	$ 37.1	$ 37.1	$ 37.1	$ —	$ —
Bonds - restricted cash and marketable securities and other assets	47.8	47.8	—	47.8	—
Interest rate swaps - other assets	2.5	2.5	—	2.5	—
Interest rate locks - other assets	10.3	10.3	—	10.3	—
Total assets	$ 97.7	$ 97.7	$ 37.1	$ 60.6	$ —
Liabilities:					
Contingent consideration - other long-term liabilities	$ 71.4	$ 71.4	$ —	$ —	$ 71.4
Total liabilities	$ 71.4	$ 71.4	$ —	$ —	$ 71.4

Total Debt

As of December 31, 2019, the carrying value of our total debt was $8.7 billion and the fair value of our total debt was $9.4 billion. As of December 31, 2018, the carrying value of our total debt was $8.3 billion and the fair value of our total debt was $8.7 billion. The estimated fair value of our fixed rate senior notes and debentures is based on quoted market prices. The fair value of our remaining notes payable, tax-exempt financings and borrowings under our credit facilities approximates the carrying value because the interest rates are variable. The fair value estimates are based on Level 2 inputs of the fair value hierarchy as of December 31, 2019 and December 31, 2018. See Note 9, *Debt,* for further information related to our debt.

Contingent Consideration

In April 2015, we entered into a waste management contract with the County of Sonoma, California to operate the county's waste management facilities. As of December 31, 2019, the Sonoma contingent consideration represents the fair value of $65.5 million payable to the County of Sonoma based on the achievement of future annual tonnage targets through the expected remaining capacity of the landfill. The potential undiscounted amount of all future contingent payments that we could be required to make under the waste management contract is estimated to be between approximately $75 million and $165 million. During 2019, the activity in the contingent consideration liability included accretion, which was offset by concession payments made in the ordinary course of business. There were no changes to the estimate of fair value.

In 2017, we recognized additional contingent consideration associated with the acquisition of a landfill. As of December 31, 2019, the contingent consideration of $4.0 million represents the fair value of amounts payable to the seller based on annual volume of tons disposed at the landfill. During 2019, the activity in the contingent consideration liability included accretion, which was offset by concession payments made in the ordinary course of business. There were no changes to the estimate of fair value.

In June 2019, we recognized additional contingent consideration associated with the acquisition of a collection business. As of December 31, 2019, the contingent consideration of $2.5 million represents the fair value of amounts payable to the seller based on annual volume of tons collected from certain customers of the business. During 2019, the activity in the contingent consideration liability included accretion, which was offset by concession payments made in the ordinary course of business. There were no changes to the estimate of fair value.

19. COMMITMENTS AND CONTINGENCIES

Legal Proceedings

We are subject to extensive and evolving laws and regulations and have implemented safeguards to respond to regulatory requirements. In the normal course of our business, we become involved in legal proceedings. Some may result in fines, penalties or judgments against us, or settlements, which may impact earnings and cash flows for a particular period. Although we cannot predict the ultimate outcome of any legal matter with certainty, we do not believe the outcome of any of our pending legal proceedings will have a material adverse impact on our consolidated financial position, results of operations or cash flows.

As used herein, the term *legal proceedings* refers to litigation and similar claims against us and our subsidiaries, excluding: (1) ordinary course accidents, general commercial liability and workers' compensation claims, which are covered by insurance programs, subject to customary deductibles, and which, together with insured employee health care costs, are discussed in Note 7, *Other Liabilities*; and (2) environmental remediation liabilities, which are discussed in Note 8, *Landfill and Environmental Costs.*

We accrue for legal proceedings when losses become probable and reasonably estimable. We have recorded an aggregate accrual of approximately $21 million relating to our outstanding legal proceedings as of December 31, 2019. As of the end of each applicable reporting period, we review each of our legal proceedings and, where it is probable that a liability has been incurred, we accrue for all probable and reasonably estimable losses. Where we can reasonably estimate a range of losses we may incur regarding such a matter, we record an accrual for the amount within the range that constitutes our best estimate. If we can reasonably estimate a range but no amount within the range appears to be a better estimate than any other, we use the amount that is the low end of such range. If we had used the high ends of such ranges, our aggregate potential liability would be approximately $15 million higher than the amount recorded as of December 31, 2019.

Unconditional Purchase Commitments

Royalties

We have entered into agreements to pay royalties to prior landowners, lessors or host communities, based on, among other things, revenue received and waste tonnage disposed at specified landfills. These royalties are generally payable quarterly and

amounts incurred, but not paid, are accrued in our consolidated balance sheets. Royalties are accrued as revenue is received or tonnage is disposed of, as applicable, in the landfills.

Disposal Agreements

We have several agreements that require us to dispose of a minimum number of tons at third-party disposal facilities. Under these put-or-pay agreements, we must pay for agreed-upon minimum volumes regardless of the actual number of tons placed at the facilities.

Our unconditional purchase commitments have varying expiration dates, with some extending through the remaining life of the respective landfill. Future minimum payments under unconditional purchase commitments, consisting primarily of (1) disposal related agreements, which include fixed or minimum royalty payments, host agreements, and take-or-pay and put-or-pay agreements, and (2) other obligations including committed capital expenditures and consulting service agreements as of December 31, 2019 are as follows:

2020	$ 132.5
2021	90.9
2022	62.8
2023	39.5
2024	38.1
Thereafter	266.1
	$ 629.9

Cash and Cash Equivalents and Restricted Cash and Marketable Securities

Restricted cash and restricted cash equivalents are included with cash and cash equivalents when reconciling the beginning-of-period and end-of-period total amounts shown on the statements of cash flows. Beginning-of-period and end-of-period cash, cash equivalents, restricted cash and restricted cash equivalents as presented in the statements of cash flows are reconciled as follows:

	December 31, 2019	December 31, 2018	December 31, 2017
Cash and cash equivalents	$ 47.1	$ 70.5	$ 83.3
Restricted cash and marketable securities	179.4	108.1	141.1
Less: restricted marketable securities	(49.1)	(45.3)	(45.3)
Cash, cash equivalents, restricted cash and restricted cash equivalents	$ 177.4	$ 133.3	$ 179.1

Our restricted cash and marketable securities include, among other things, restricted cash and marketable securities pledged to regulatory agencies and governmental entities as financial guarantees of our performance under certain collection, landfill and transfer station contracts and permits, and relating to our final capping, closure and post-closure obligations at our landfills, restricted cash and marketable securities related to our insurance obligations, and restricted cash related to a payment for a certain maturing tax-exempt financing.

The following table summarizes our restricted cash and marketable securities as of December 31:

	2019	2018
Payment for maturing tax-exempt financing	$ 49.4	$ —
Capping, closure and post-closure obligations	30.6	29.5
Insurance	99.4	78.6
Total restricted cash and marketable securities	$ 179.4	$ 108.1

We must provide financial assurance to governmental agencies and a variety of other entities under applicable environmental regulations relating to our landfill operations for capping, closure and post-closure costs, and our performance under certain collection, landfill and transfer station contracts. We satisfy our financial assurance requirements by providing surety bonds, letters of credit, insurance policies or trust deposits. The amount of the financial assurance requirements for capping, closure and post-closure costs is determined by applicable state environmental regulations, which vary by state. The financial assurance requirements for capping, closure and post-closure costs can either be for costs associated with a portion of the landfill or the

entire landfill. Generally, states will require a third-party engineering specialist to determine the estimated capping, closure and post-closure costs that are used to determine the required amount of financial assurance for a landfill. The amount of financial assurance required can, and generally will, differ from the obligation determined and recorded under U.S. GAAP. The amount of the financial assurance requirements related to contract performance varies by contract. Additionally, we are required to provide financial assurance for our insurance program and collateral for certain performance obligations.

We had the following financial instruments and collateral in place to secure our financial assurances as of December 31:

	2019	2018
Letters of credit	$ 449.7	$ 474.2
Surety bonds	$ 3,460.8	$ 3,442.4

We had $351.4 million and $379.6 million of letters of credit outstanding under our Credit Facility as of December 31, 2019 and 2018, respectively. Surety bonds subject to expiration will expire on various dates through 2026.

These financial instruments are issued in the normal course of business and are not classified as debt. Because we currently have no liability for this financial assurance, it is not reflected in our consolidated balance sheets. However, we have recorded capping, closure and post-closure obligations and insurance reserves as they are incurred.

We own a 19.9% interest in a company that, among other activities, issues financial surety bonds to secure capping, closure and post-closure obligations for companies operating in the solid waste industry. We account for this investment under the cost method of accounting. There have been no identified events or changes in circumstances that may have a significant adverse effect on the recoverability of this investment. This investee company and the parent company of the investee had written surety bonds for us relating primarily to our landfill operations for capping, closure and post-closure, of which $1,330.7 million were outstanding as of December 31, 2019. Our reimbursement obligations under these bonds are secured by an indemnity agreement with the investee and letters of credit. There were no letters of credit outstanding as of December 31, 2019 and 2018 associated with these reimbursement obligations.

Off-Balance Sheet Arrangements

We have no off-balance sheet debt or similar obligations, other than short-term operating leases and financial assurances, which are not classified as debt. We have no transactions or obligations with related parties that are not disclosed, consolidated into or reflected in our reported financial position or results of operations. We have not guaranteed any third-party debt.

Guarantees

We enter into contracts in the normal course of business that include indemnification clauses. Indemnifications relating to known liabilities are recorded in the consolidated financial statements based on our best estimate of required future payments. Certain of these indemnifications relate to contingent events or occurrences, such as the imposition of additional taxes due to a change in the tax law or adverse interpretation of the tax law, and indemnifications made in divestiture agreements where we indemnify the buyer for liabilities that relate to our activities prior to the divestiture and that may become known in the future. We do not believe that these contingent obligations will have a material effect on our consolidated financial position, results of operations or cash flows.

We have entered into agreements with property owners to guarantee the value of property that is adjacent to certain of our landfills. These agreements have varying terms. We do not believe that these contingent obligations will have a material effect on our consolidated financial position, results of operations or cash flows.

Other Matters

Our business activities are conducted in the context of a developing and changing statutory and regulatory framework. Governmental regulation of the waste management industry requires us to obtain and retain numerous governmental permits to conduct various aspects of our operations. These permits are subject to revocation, modification or denial. The costs and other capital expenditures that may be required to obtain or retain the applicable permits or comply with applicable regulations could be significant. Any revocation, modification or denial of permits could have a material adverse effect on us.

REPUBLIC SERVICES, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS—(Continued)

20. SELECTED QUARTERLY FINANCIAL DATA (unaudited)

The following table summarizes our unaudited consolidated quarterly results of operations as reported for 2019 and 2018:

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
2019:				
Revenue [1]	$ 2,470.6	$ 2,605.3	$ 2,646.9	$ 2,576.7
Operating income	$ 422.8	$ 437.4	$ 467.8	$ 459.2
Net income	$ 234.9	$ 250.9	$ 298.0	$ 290.0
Net income attributable to Republic Services, Inc.	$ 234.2	$ 251.5	$ 298.3	$ 289.3
Diluted earnings per common share	$ 0.72	$ 0.78	$ 0.93	$ 0.90
2018:				
Revenue [1]	$ 2,427.5	$ 2,517.8	$ 2,565.7	$ 2,530.0
Operating income[1]	$ 404.2	$ 408.2	$ 440.3	$ 483.3
Net income	$ 237.9	$ 235.7	$ 262.9	$ 301.1
Net income attributable to Republic Services, Inc. [1]	$ 237.7	$ 234.9	$ 263.4	$ 301.0
Diluted earnings per common share	$ 0.72	$ 0.71	$ 0.81	$ 0.92

(1) Line items in these rows do not total to amounts reported in the consolidated financial statements due to rounding.

During the fourth quarter of 2019 and 2018, we recorded a reduction to remediation expense of $24.0 million and $40.0 million, respectively, related to insurance recoveries at our closed Bridgeton Landfill.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

REPORT OF MANAGEMENT ON REPUBLIC SERVICES, INC.'S INTERNAL CONTROL OVER FINANCIAL REPORTING

We, as members of management of Republic Services, Inc., are responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rule 13a-15(f). Internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. Internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect transactions and dispositions of our assets; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that our receipts and expenditures are being made only in accordance with authorizations of our management and directors; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of our assets that could have a material effect on the financial statements.

Because of its inherent limitations, our internal control systems and procedures may not prevent or detect misstatements. An internal control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, have been detected. Also, projections of any evaluation of effectiveness to future periods are subject to the risks that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies and procedures may deteriorate.

We, under the supervision of and with the participation of our management, including the Chief Executive Officer, Chief Financial Officer and Chief Accounting Officer, assessed the effectiveness of our internal control over financial reporting as of December 31, 2019, based on criteria for effective internal control over financial reporting described in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this assessment, we concluded that we maintained effective internal control over financial reporting as of December 31, 2019, based on the specified criteria.

Our internal control over financial reporting has been audited by Ernst & Young LLP, an independent registered public accounting firm, as stated in their attestation report which is included herein.

Disclosure Controls and Procedures

We carried out an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of our disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e), and 15d-15(e)) as of the end of the period covered by this Annual Report. Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective as of the end of the period covered by this Annual Report.

Changes in Internal Control Over Financial Reporting

Based on an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, there has been no change in our internal control over financial reporting during the quarter ended December 31, 2019 identified in connection with that evaluation, that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

In July 2019, we acquired all of the issued and outstanding shares of Southern Tank Leasing, Inc., Tidal Tank, Inc. and Bealine Service Company, Inc. (collectively Sprint). As permitted by the SEC Staff interpretive guidance for newly acquired businesses, management's assessment of our internal control over financial reporting as of December 31, 2019 did not include an assessment of internal control over financial reporting as it relates to the Sprint acquisition. We will continue the process of implementing internal controls over financial reporting for Sprint. As of December 31, 2019, assets excluded from management's assessment totaled $134.1 million and contributed less than 1% of revenue to our audited consolidated financial statements for the year ended December 31, 2019.

ITEM 9B. OTHER INFORMATION

None.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information required by this item is incorporated by reference to the material appearing under the headings Proposal 1 - Election of Directors, Biographical Information Regarding Directors/Nominees, Board of Directors and Corporate Governance Matters, Delinquent Section 16(a) Reports, and Executive Officers in the Proxy Statement for the 2020 Annual Meeting of Shareholders.

ITEM 11. EXECUTIVE COMPENSATION

Information required by this item is incorporated by reference to the material appearing under the headings Executive Compensation and Director Compensation in the Proxy Statement for the 2020 Annual Meeting of Shareholders.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Information required by this item is incorporated by reference to the material appearing under the headings Security Ownership of Five Percent Shareholders and Security Ownership of the Board of Directors and Management in the Proxy Statement for the 2020 Annual Meeting of Shareholders.

The following table sets forth certain information regarding equity compensation plans as of December 31, 2019 (number of securities in millions):

Plan Category	Number of Securities to be Issued Upon Exercise of Outstanding Options and Rights [b]	Weighted Average Exercise Price of Outstanding Options and Rights [c]	Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (excluding securities reflected in the first column) [d]
Equity compensation plans approved by security holders [a]	2.6	$ 36.19	31.2
Equity compensation plans not approved by security holders	—	—	—
Total	2.6	$ 36.19	31.2

(a) Includes our 2006 Plan, Amended and Restated 2007 Stock Incentive Plan and our 2018 Employee Stock Purchase Plan (ESPP).

(b) Includes 0.4 million stock options, 1.5 million shares underlying restricted stock units, 0.7 million shares underlying performance shares, and less than 0.1 million shares underlying purchase rights that accrue under the ESPP.

(c) Excludes restricted stock units and performance shares as these awards do not have exercise prices.

(d) The shares remaining available for future issuances include 12.8 million shares under our Amended and Restated 2007 Stock Incentive Plan and 2.8 million shares under our ESPP.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

Information required by this item is incorporated by reference to the material appearing under the headings Board of Directors and Corporate Governance Matters and Certain Relationships and Related Party Transactions in the Proxy Statement for the 2020 Annual Meeting of Shareholders.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Information required by this item is incorporated by reference to the material appearing under the heading Audit and Related Fees in the Proxy Statement for the 2020 Annual Meeting of Shareholders.

PART IV

ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

(a) The following documents are filed as part of this report:

1. Financial Statements

Our consolidated financial statements are set forth under Item 8 of this Form 10-K.

2. Financial Statement Schedules

All schedules are omitted as the required information is not applicable or the information is presented in the consolidated financial statements and notes thereto in Item 8 of this Form 10-K.

3. Exhibits

The following exhibits are filed herewith or are incorporated by reference to exhibits previously filed with the SEC, as indicated in the description of each, File No. 1-14267 in the case of Republic and File No. 1-14705 and No. 0-19285 in the case of Allied.

Exhibit Number	Description
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 of the Company's Quarterly Report on Form 10-Q for the period ended June 30, 1998).
3.2	Certificate of Amendment of Amended and Restated Certificate of Incorporation of Republic Services, Inc. (incorporated by reference to Exhibit 4.2 of the Company's Registration Statement on Form S-8, Registration No. 333-81801, filed with the Commission on June 29, 1999).
3.3	Amended and Restated Bylaws of Republic Services, Inc. (incorporated by reference to Exhibit 3.3 of the Company's Current Report on Form 8-K dated May 6, 2016).
4.1	Republic Services, Inc. Common Stock Certificate (incorporated by reference to Exhibit 4.4 of the Company's Registration Statement on Form S-8, Registration No. 333-81801, filed with the Commission on June 29, 1999).
4.2	Second Supplemental Indenture, dated as of March 21, 2005, to the Indenture dated as of August 15, 2001, by and between Republic Services, Inc. and The Bank of New York, as trustee, including the form of 6.086% Note due March 15, 2035 (incorporated by reference to Exhibit 4.1 of the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2005).
4.3	Indenture, dated as of September 8, 2009, by and between Republic Services, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated September 9, 2009).
4.4	Third Supplemental Indenture, dated as of May 9, 2011, to the Indenture dated as of September 8, 2009, by and among Republic Services, Inc., the guarantors named therein and The Bank of New York Mellon Trust Company, N.A., as trustee, including the form of 4.750% Notes due 2023 (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K dated May 9, 2011).
4.5	Fourth Supplemental Indenture, dated as of May 9, 2011, to the Indenture dated as of September 8, 2009, by and among Republic Services, Inc., the guarantors named therein and The Bank of New York Mellon Trust Company, N.A., as trustee, including the form of 5.700% Notes due 2041 (incorporated by reference to Exhibit 4.3 of the Company's Current Report on Form 8-K dated May 9, 2011).
4.6	Indenture, dated as of November 25, 2009, by and between Republic Services, Inc. and U.S. Bank National Association, as trustee (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated November 25, 2009).
4.7	First Supplemental Indenture, dated as of November 25, 2009, to the Indenture dated as of November 25, 2009, by and among Republic Services, Inc., the guarantors named therein and U.S. Bank National Association, as trustee, including the form of 5.25% Notes due 2021 (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K dated November 25, 2009).
4.8	Second Supplemental Indenture, dated as of March 4, 2010, to the Indenture dated as of November 25, 2009, by and among Republic Services, Inc., the guarantors named therein and U.S. Bank National Association, as trustee, including the form of 5.00% Notes due 2020 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated March 4, 2010).
4.9	Third Supplemental Indenture, dated as of March 4, 2010, to the Indenture dated as of November 25, 2009, by and among Republic Services, Inc., the guarantors named therein and U.S. Bank National Association, as trustee, including the form of 6.20% Notes due 2040 (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K dated March 4, 2010).

Exhibit Number	Description
4.10	Indenture, dated as of May 21, 2012, by and between Republic Services, Inc. and Wells Fargo Bank, National Association, as trustee (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated May 21, 2012).
4.11	First Supplemental Indenture, dated as of May 21, 2012, to the Indenture dated as of May 21, 2012, by and between Republic Services, Inc. and Wells Fargo Bank, National Association, including the form of 3.55% Notes due 2022 (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K dated May 21, 2012).
4.12	Restated Indenture, dated as of September 1, 1991, by and between Browning-Ferris Industries, Inc. and First City, Texas-Houston, National Association, as trustee (incorporated by reference to Exhibit 4.22 of Allied's Registration Statement on Form S-4/A (No. 333-61744)).
4.13	First Supplemental Indenture, dated as of July 30, 1999, to the Restated Indenture dated as of September 1, 1991, by and among Allied Waste Industries, Inc., Allied Waste North America, Inc., Browning-Ferris Industries, Inc. and Chase Bank of Texas, National Association, as trustee (incorporated by reference to Exhibit 4.23 of Allied's Registration Statement on Form S-4/A (No. 333-61744)).
4.14	First [sic] Supplemental Indenture, dated as of December 31, 2004, to the Restated Indenture dated as of September 1, 1991, by and among Browning-Ferris Industries, Inc., BBCO, Inc. and JP Morgan Chase Bank, National Association as trustee (incorporated by reference to Exhibit 4.33 of Allied's Annual Report on Form 10-K for the year ended December 31, 2004).
4.15	Third Supplemental Indenture, dated as of December 5, 2008, to the Restated Indenture dated as of September 1, 1991, by and among Allied Waste Industries, Inc., Allied Waste North America, Inc., Browning-Ferris Industries, LLC (successor to Browning-Ferris Industries, Inc.), BBCO, Inc., Republic Services, Inc., the guarantors party thereto and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated December 10, 2008).
4.16	Fourth Supplemental Indenture, dated as of March 11, 2015, to the Indenture, dated as of November 25, 2009, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 3.20% Notes due 2025 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated March 11, 2015).
4.17	Fifth Supplemental Indenture, dated as of July 5, 2016, to the Indenture, dated as of November 25, 2009, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 2.900% Notes due 2026 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated July 5, 2016).
4.18	Sixth Supplemental Indenture, dated as of November 16, 2017, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 3.375% Notes due 2027 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated November 15, 2017).
4.19	Form of Browning-Ferris Industries, Inc. 7.4% Debentures due 2035 (incorporated by reference to Exhibit 4 of Browning-Ferris Industries, Inc.'s Current Report on Form 8-K dated September 15, 1995).
4.20	Credit Agreement, dated as of June 8, 2018, by and among Republic Services, Inc., as Borrower, Bank of America, N.A., as Administrative Agent, Swing Ling Lender and L/C Issuer, and the other lenders party thereto (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated June 11, 2018).
4.21	Seventh Supplemental Indenture, dated as of May 14, 2018, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 3.950% Notes due 2028 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated May 3, 2018).
4.22	Limited consent (2018 Credit Agreement), dated as of August 21, 2019, by and among Republic Services, Inc., as Borrower, Bank of America, N.A., as Administrative Agent, Swing Line Lender and an L/C Issuer, and the lenders party thereto (incorporated by reference to Exhibit 4.1 of the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2019).
4.23*	Description of Securities Registered Under Section 12 of the Securities Exchange Act of 1934.
4.24	Eighth Supplemental Indenture, dated as of August 7, 2019, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 2.500% Notes due 2024 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated August 1, 2019).
10.1+	Republic Services, Inc. 2007 Stock Incentive Plan (incorporated by reference to Exhibit 10.1 of the Company's Quarterly Report on Form 10-Q for the period ended June 30, 2007).
10.2+	Amendment to the Republic Services, Inc. 2007 Stock Incentive Plan (incorporated by reference to Exhibit 10.8 of the Company's Annual Report on Form 10-K for the year ended December 31, 2008).

Exhibit Number	Description
10.3+	Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan effective May 12, 2011 (incorporated by reference to Appendix A of the Company's Proxy Statement on Schedule 14A filed on April 1, 2011).
10.4+	Form of Stock Option Agreement under the Republic Services, Inc. 2007 Stock Incentive Plan (for awards prior to October 28, 2011) (incorporated by reference to Exhibit 10.9 of the Company's Annual Report on Form 10-K for the year ended December 31, 2008).
10.5+	Form of Non-NEO Stock Option Agreement under the Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan (for awards on or after October 28, 2011) (incorporated by reference to Exhibit 10.1 of the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2011).
10.6+	Form of NEO Stock Option Agreement under the Republic Services, Inc. 2007 Amended and Restated Stock Incentive Plan (for awards on or after October 28, 2011) (incorporated by reference to Exhibit 10.2 of the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2011).
10.7+	Form of Non-NEO Restricted Stock Agreement under the Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan (for awards on or after October 28, 2011) (incorporated by reference to Exhibit 10.3 of the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2011).
10.8+	Form of NEO Restricted Stock Agreement under the Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan (for awards on or after October 28, 2011) (incorporated by reference to Exhibit 10.4 of the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2011).
10.9+	Form of Employee Restricted Stock Unit Agreement under the Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan (for awards on or after December 27, 2011) (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated December 27, 2011).
10.10+	Form of Non-Employee Director Restricted Stock Unit Agreement (annual vesting) under the Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan (for awards on or after December 27, 2011) (incorporated by reference to Exhibit 10.2 of the Company's Current Report on Form 8-K dated December 27, 2011).
10.11+	Form of Non-Employee Director Restricted Stock Unit Agreement (3 year vesting) under the Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan (for awards on or after December 27, 2011) (incorporated by reference to Exhibit 10.3 of the Company's Current Report on Form 8-K dated December 27, 2011).
10.12+	Republic Services, Inc. Deferred Compensation Plan, as amended and restated effective January 1, 2010 (incorporated by reference to Exhibit 4.4 of the Company's Registration Statement on Form S-8, Registration No. 333-170174, filed with the Commission on October 27, 2010).
10.13+	Amendment No. 1 to Republic Services, Inc. Deferred Compensation Plan, effective January 6, 2011 (incorporated by reference to Exhibit 10.17 of the Company's Annual Report on Form 10-K for the year ended December 31, 2010).
10.14+	Republic Services, Inc. Amended and Restated Executive Incentive Plan, effective February 4, 2014 (incorporated by reference to Appendix A of the Company's Proxy Statement on Schedule 14A filed on March 26, 2014).
10.15+	Employment Agreement, effective as of October 29, 2013, by and between Republic Services, Inc. and Donald W. Slager (incorporated by reference to Exhibit 10.1 of the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2013).
10.16+	Amended and Restated Employment Agreement, effective December 8, 2008, by and between Jeffrey A. Hughes and Republic Services, Inc. (incorporated by reference to Exhibit 10.61 of the Company's Annual Report on Form 10-K for the year ended December 31, 2012).
10.17+	Allied Waste Industries, Inc. 2006 Incentive Stock Plan (incorporated by reference to Exhibit 10.2 of Allied's Quarterly Report on Form 10-Q for the period ended June 30, 2006).
10.18+	First Amendment to the Allied Waste Industries, Inc. 2006 Incentive Stock Plan, dated as of July 27, 2006 (incorporated by reference to Exhibit 10.1 of Allied's Quarterly Report on Form 10-Q for the period ended September 30, 2006).
10.19+	Amended and Restated Allied Waste Industries, Inc. 2006 Incentive Stock Plan, dated as of July 27, 2006 (incorporated by reference to Exhibit 10.2 of Allied's Quarterly Report on Form 10-Q for the period ended September 30, 2006).
10.20+	First Amendment, dated as of December 5, 2006, to the Amended and Restated Allied Waste Industries, Inc. 2006 Incentive Stock Plan, dated as of July 27, 2006 (incorporated by reference to Exhibit 10.47 of Allied's Annual Report on Form 10-K for the year ended December 31, 2006).

Exhibit Number	Description
10.21+	Amended and Restated Allied Waste Industries, Inc. 2006 Incentive Stock Plan, effective October 24, 2007 (incorporated by reference to Exhibit 10.122 of Allied's Annual Report on Form 10-K for the year ended December 31, 2007).
10.22+	Republic Services, Inc. 2006 Incentive Stock Plan (f/k/a Amended and Restated Allied Waste Industries, Inc. 2006 Incentive Stock Plan), as amended and restated effective December 5, 2008 (incorporated by reference to Exhibit 10.51 of the Company's Annual Report on Form 10-K for the year ended December 31, 2008).
10.23+	Form of Nonqualified Stock Option Agreement under the Allied Waste Industries, Inc. 2006 Incentive Stock Plan (incorporated by reference to Exhibit 10.3 of Allied's Quarterly Report on Form 10-Q for the period ended September 30, 2006).
10.24+	Form of Indemnity Agreement between Allied Waste Industries, Inc. and legacy Allied directors (incorporated by reference to Exhibit 10.19 of Allied's Quarterly Report on Form 10-Q for the quarter ended March 31, 2004).
10.25+	Republic Services, Inc. Executive Separation Policy, as amended as of March 29, 2012 (incorporated by reference to Exhibit 10.2 of the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2012).
10.26+	Amendment No. 2 to Republic Services, Inc. Deferred Compensation Plan, effective February 7, 2012 (incorporated by reference to Exhibit 10.3 of the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2012).
10.27+	Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan effective May 9, 2013 (incorporated by reference to Exhibit 10.1 of the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2013).
10.28+	Amendment No. 3 to Republic Services, Inc. Deferred Compensation Plan, effective October 29, 2013 (incorporated by reference to Exhibit 10.3 of the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2013).
10.29+	Offer Letter, dated August 22, 2014, by and between Charles F. Serianni and Republic Services, Inc. (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated August 25, 2014).
10.30+	Clawback Policy, dated October 29, 2014 (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated October 30, 2014).
10.31+	First Amendment to the Employment Agreement, dated December 23, 2014, by and between Donald W. Slager and Republic Services, Inc. (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated December 24, 2014).
10.32+	Form of Performance Share Agreement, adopted January 7, 2015 (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated January 9, 2015).
10.33+	Form of Employee Restricted Stock Unit Agreement - Senior Executive, adopted January 7, 2015 (incorporated by reference to Exhibit 10.2 of the Company's Current Report on Form 8-K dated January 9, 2015).
10.34+	Amendment No. 4 to Republic Services, Inc. Deferred Compensation Plan, effective January 1, 2015 (incorporated by reference to Exhibit 10.53 of the Company's Annual Report on Form 10-K for the year ended December 31, 2014).
10.35+	Agreement, entered into July 11, 2016, by and between Michael P. Rissman and Republic Services, Inc. (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated July 12, 2016).
10.36+	Separation agreement, entered into June 23, 2016, by and between Robert A. Maruster and Republic Services, Inc. (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated June 24, 2016).
10.37+	Offer Letter, dated July 25, 2016, by and between Catharine D. Ellingsen and Republic Services, Inc. (incorporated by reference to Exhibit 10.37 of the Company's Annual Report on Form 10-K dated February 16, 2017).
10.38+	Non-Competition, Non-Solicitation, Confidentiality and Arbitration Agreement, effective June 13, 2016, by and between Catharine D. Ellingsen and Republic Services, Inc. (incorporated by reference to Exhibit 10.38 of the Company's Annual Report on Form 10-K dated February 16, 2017).
10.39+	Offer Letter, dated April 29, 2019, by and between Jon Vander Ark and Republic Services, Inc. (incorporated by reference to Exhibit 10.1 of the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019).

Exhibit Number	Description
10.40+	Non-Competition, Non-Solicitation, Confidentiality and Arbitration Agreement, effective May 1, 2019, by and between Jon Vander Ark and Republic Services, Inc. (incorporated by reference to Exhibit 10.2 of the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019).
10.41+	Offer Letter, dated April 29, 2019, by and between Timothy Stuart and Republic Services, Inc. (incorporated by reference to Exhibit 10.3 of the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019).
10.42+	Non-Competition, Non-Solicitation, Confidentiality and Arbitration Agreement, effective May 1, 2019, by and between Timothy Stuart and Republic Services, Inc. (incorporated by reference to Exhibit 10.4 of the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019).
21.1*	Subsidiaries of the Company.
23.1*	Consent of Ernst & Young LLP.
31.1*	Rule 13a-14(a)/15d-14(a) Certification of Chief Executive Officer.
31.2*	Rule 13a-14(a)/15d-14(a) Certification of Chief Financial Officer.
32.1**	Section 1350 Certification of Chief Executive Officer.
32.2**	Section 1350 Certification of Chief Financial Officer.
101.INS*	XBRL Instance Document. - the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document.
101.SCH*	XBRL Taxonomy Extension Schema Document.
101.CAL*	XBRL Taxonomy Extension Calculation Linkbase Document.
101.LAB*	XBRL Taxonomy Extension Labels Linkbase Document.
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase Document.
101.DEF*	XBRL Taxonomy Extension Definition Linkbase Document.
104*	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).

* Filed herewith.

** This exhibit is being furnished rather than filed, and shall not be deemed incorporated by reference into any filing, in accordance with Item 601 of Regulation S-K.

\+ Indicates a management or compensatory plan or arrangement.

Pursuant to Item 601(b)(4)(iii)(A) of Regulation S-K, the Company has not filed as exhibits to this Form 10-K certain long-term debt instruments under which the total amount of securities authorized does not exceed 10% of the total assets of the Company and its subsidiaries on a consolidated basis. The Company hereby agrees to furnish a copy of any such instrument to the SEC upon request.

ITEM 16. FORM 10-K SUMMARY

None.

Signatures

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 13, 2020

REPUBLIC SERVICES, INC.

By: /s/ DONALD W. SLAGER
Donald W. Slager

Chief Executive Officer
(Principal Executive Officer)

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

Signature	Title	Date
/s/ DONALD W. SLAGER Donald W. Slager	Chief Executive Officer and Director (Principal Executive Officer)	February 13, 2020
/s/ CHARLES F. SERIANNI Charles F. Serianni	Executive Vice President, Chief Financial Officer (Principal Financial Officer)	February 13, 2020
/s/ BRIAN A. GOEBEL Brian A. Goebel	Vice President and Chief Accounting Officer (Principal Accounting Officer)	February 13, 2020
/s/ MANUEL KADRE Manuel Kadre	Chairman of the Board of Directors	February 13, 2020
/s/ TOMAGO COLLINS Tomago Collins	Director	February 13, 2020
/s/ THOMAS W. HANDLEY Thomas W. Handley	Director	February 13, 2020
/s/ JENNIFER M. KIRK Jennifer M. Kirk	Director	February 13, 2020
/s/ MICHAEL LARSON Michael Larson	Director	February 13, 2020
/s/ KIM S. PEGULA Kim S. Pegula	Director	February 13, 2020

/s/ RAMON A. RODRIGUEZ Ramon A. Rodriguez	Director	February 13, 2020
/s/ JAMES P. SNEE James P. Snee	Director	February 13, 2020
/s/ JOHN M. TRANI John M. Trani	Director	February 13, 2020
/s/ SANDRA M. VOLPE Sandra M. Volpe	Director	February 13, 2020
/s/ KATHARINE B. WEYMOUTH Katharine B. Weymouth	Director	February 13, 2020

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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 10-K

☑ **ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**
For the fiscal year ended December 31, 2020

or

☐ **TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**
For the transition period from _____ to _____

Commission file number: 1-14267

REPUBLIC SERVICES, INC.

(Exact Name of Registrant as Specified in its Charter)

Delaware	**65-0716904**
(State or Other Jurisdiction of Incorporation or Organization)	*(IRS Employer Identification No.)*
18500 North Allied Way **Phoenix, Arizona**	**85054** *(Zip Code)*
(Address of Principal Executive Offices)	

Registrant's telephone number, including area code: (480) 627-2700

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class	Trading Symbol(s)	Name of Each Exchange On Which Registered
Common Stock, par value $0.01 per share	RSG	The New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes ☑ No ☐

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes ☐ No ☑
Note – Checking the box above will not relieve any registrant required to file reports pursuant to Section 13 or 15(d) of the Exchange Act from their obligations under those Sections.

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☑ No ☐

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☑ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer ☑ Accelerated filer ☐ Smaller reporting company ☐ Emerging growth company ☐

Non-accelerated filer ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report. ☑

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes ☐ No ☑

As of June 30, 2020, the aggregate market value of the shares of the Common Stock held by non-affiliates of the registrant was $26.1 billion.

As of February 17, 2021, the registrant had outstanding 318,898,313 shares of Common Stock (excluding treasury shares of 33,294).

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Registrant's Proxy Statement relative to the 2021 Annual Meeting of Shareholders are incorporated by reference in Part III hereof.

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Unless the context requires otherwise, all references in this Form 10-K to Republic, the Company, we, us and our refer to Republic Services, Inc. and its consolidated subsidiaries.

PART I

ITEM 1. BUSINESS

Overview

Republic is one of the largest providers of environmental services in the United States, as measured by revenue. As of December 31, 2020, we operated facilities in 41 states through 345 collection operations, 220 transfer stations, 186 active landfills, 76 recycling processing centers, 6 treatment, recovery and disposal facilities, 9 salt water disposal wells, and 7 deep injection wells. We are engaged in 75 landfill gas-to-energy and renewable energy projects and had post-closure responsibility for 128 closed landfills. We were incorporated in Delaware in 1996.

We believe the total addressable environmental services market in which we operate generates approximately $87 billion of annual revenue, which includes the $67 billion U.S. recycling and solid waste industry and $20 billion of the broader environmental services industry. Within our recycling and solid waste business, we prioritize investments in market verticals with above average growth rates and higher return profiles. Environmental services remains fragmented which provides consolidation opportunities to drive scale. We believe we will be able to further expand our addressable market into other segments of the environmental services industry over time by leveraging our differentiated capabilities.

Our operations are national in scope, but the physical collection and recycling or disposal of material is very much a local business and the dynamics and opportunities differ in each of our markets. By combining local operating management with standardized business practices, we drive greater overall operating efficiency across the Company while maintaining day-to-day operating decisions at the local level, closest to the customer.

We believe that our products and services are valuable to our customers and essential for long-term sustainability. Our focus and commitment to sustainability allows us to attract and retain the best talent, win more customers, increase customer loyalty, and ultimately drive higher revenue and profits.

In March 2020, the World Health Organization declared the outbreak of a new strain of coronavirus (COVID-19) a pandemic. The COVID-19 pandemic has impacted the global economy as well as certain aspects of our operations and performance. During this time, we continued to provide essential services to our customers while prioritizing the health and safety of our employees. In April 2020, we launched our Committed to Serve initiative to help our employees, customers and communities across the United States. The impact of COVID-19 on our business and associated costs are discussed in Item 7, *Management's Discussion and Analysis of Financial Condition and Results of Operations* in this Annual Report on Form 10-K.

Foundational Elements

Our strategy is designed to generate profitable growth by sustainably managing our customers' needs, and it is underpinned by three foundational elements – (1) our market position, (2) operating model, and (3) management of human capital through our people and talent agenda.

Market Position

Our goal is to develop the best vertically integrated market position to enable us to build density and improve returns. We strive to have a number one or number two market position in each of the markets we serve, or have a clear path on how we will achieve a leading market position over time. In situations where we cannot establish a leading market position, or where operations are not generating acceptable returns, we may decide to divest certain assets and reallocate resources to other markets.

We have a robust market planning process to identify opportunities to grow internally through capital investments and infrastructure development, and externally through acquisitions and public-private partnerships. Additionally, our market planning process allows us to analyze market conditions and proactively adjust to trends as they emerge, including the effects of demographic shifts, and changes in the market and the competitive landscape.

Internal Growth

- Volume Growth - We believe volumes are driven by population growth, household formation and new business formation. Volume growth through increases in our customer base and service offerings is the most capital efficient method to grow our business. We seek to obtain long-term contracts for collecting recyclable and solid waste material under residential collection contracts with municipalities, exclusive franchise agreements, and small-container and large-container contracts. We also look to enter into long-term disposal and recycling processing contracts with

municipalities and other third parties. By obtaining such long-term agreements, we can grow our contracted revenue base at a rate consistent with the underlying economic growth in these markets. In addition, by securing long-term agreements, we are better able to help ensure we earn an appropriate return on the capital deployed.

- Price Increases - We seek to secure price increases necessary to offset increased costs, improve our operating margins and earn an appropriate return on our substantial investments in vehicles, equipment, landfills, transfer stations and recycling processing centers.
- Expansion of Recycling Capabilities - Based on the most recent U.S. Environmental Protection Agency (EPA) data, we believe approximately 32% of municipal solid waste is recycled and composted, and we expect that percentage to increase over the long-term. While there are examples of communities cancelling their recycling programs, many more communities remain committed to enhancing and expanding their recycling programs for their residents. We continue to focus on innovative material handling processes and programs to help our customers achieve their goals related to sustainability and environmentally sound waste practices while also generating an appropriate return. We will continue to look for opportunities to expand or enhance our recycling capabilities in markets where customers are demanding these services and demonstrating a willingness to pay, and we can earn an appropriate return on our investment.
- Infrastructure Development - We seek to identify opportunities to further our position as a vertically integrated service provider in markets where we are not fully integrated. Our goal is to create market-specific, vertically integrated operations typically consisting of one or more collection operations, transfer stations, landfills and recycling processing centers. Where appropriate, we seek to obtain permits to build transfer stations, recycling processing centers and landfills that would vertically integrate our waste services or expand the service areas for our existing disposal sites. Additionally, we seek opportunities to expand and permit new airspace at our existing landfills in order to replace airspace consumed. Development projects, while generally less capital intensive than acquisitions, typically require extensive permitting efforts that can take years to complete with no assurance of success. We undertake development projects when we believe there is a reasonable probability of success and where reasonably priced acquisition opportunities are not available.

External Growth

- Acquisitions and Public-Private Partnerships - Our acquisition growth strategy focuses primarily on acquiring privately held recycling and solid waste companies that complement our existing business platform. We believe our ability to successfully complete these acquisitions is enhanced by the challenges facing many privately-held companies, including increasing competition in the environmental services industry, increasing capital requirements due to changes in regulatory requirements and technology and the limited number of exit strategies for privately-held companies. We also evaluate opportunities to acquire operations and facilities that are being divested by other publicly-owned companies.

  We continue to invest in value-enhancing acquisitions in existing markets. Generally, we expect to maintain a steady pace of tuck-in acquisition investment of approximately $200 million annually. Given our free cash flow, availability under our credit facilities and our ability to access the public capital markets, we have the financial flexibility to make additional acquisitions that will complement our existing business platform, including larger acquisitions if the right opportunities present themselves.

  We also focus on growth through public-private partnerships, which include the recycling and waste operations and facilities of municipal and other local governments. We believe over time we have an opportunity to acquire operations and facilities from municipalities and other local governments, as they seek to raise capital and/or reduce risk.

  We realize synergies from consolidating businesses into our existing operations, whether through acquisitions or public-private partnerships, which allows us to reduce capital expenditures and expenses associated with truck routing, personnel, fleet maintenance, inventories and back-office administration.

Operating Model

Our operating model allows us to deliver a consistent, high-quality service to all our customers through the Republic Way: *One Way. Everywhere. Every day*. This approach of developing standardized processes with rigorous controls and tracking allows us to leverage our scale and deliver durable operational excellence. The Republic Way is the key to harnessing the best of what we do as operators and translating that across all facets of our business. Key elements of our operating model are our organizational structure, safety, fleet automation, compressed natural gas vehicles, fleet electrification and standardized maintenance.

Organizational Structure

A key enabler of the Republic Way operating model is our organizational structure that fosters a high performance culture by

maintaining 360-degree accountability and full profit and loss responsibility with local management, supported by a functional structure to provide subject matter expertise. This structure allows us to take advantage of our scale by coordinating functionally across all of our markets, while empowering local management to respond to unique market dynamics.

Through this operating model, we have rolled out several productivity and cost control initiatives designed to deliver the best service possible to our customers in an efficient and environmentally sound way.

Safety

Republic is dedicated to the safety of our employees, customers and the communities we serve. We have a dedicated team of safety professionals at our corporate headquarters and in our field operations, the leader of which reports directly to our Chief Operating Officer. Due to the nature of our industry, we make safety a top priority and we recognize and reward employees for outstanding safety records. Over the past 10 years, our safety performance (based on OSHA recordable rates) has been 39% better than the industry average. Our *Think, Choose, Live* slogan encapsulates our everyday safety messaging to our employees to: *Think* about what you are doing, *Choose* the safe answer, and *Live* to go home to your family. With the phrase printed on numerous items, including hard hats and the equipment our employees touch, there are constant reminders for employees to go home in the same condition in which they came to work. Our goal is to ensure every one of our employees returns home safely each night.

Through our Safety Amplified program, we are providing even more tools and driving even greater awareness to help our teams better execute our safety standards. Regular training, multifaceted programs and strategic partnerships are key components to this program. It is simple by design and comprised of actions and activities that ensure safety is embedded in all we do. The program includes six initiatives to help us achieve our goal to have zero employee fatalities and reduce our OSHA Total Recordable Incident Rate.

- Focus Together: This is our core safety program created for our frontline employees and designed to help eliminate six types of serious incidents. We recently extended the scope and reach of the program to include all employees across the company.
- Lead Together: This focus area brings best-in-class communication channels to our employees and includes advanced training techniques for all supervisors and managers.
- Partner Together: We're initiating more frequent and higher quality leadership visits and interaction with frontline employees. These visits are designed to pull together leaders from a variety of departments to support the divisions' safety goals.
- Celebrate Together: We take pride in recognizing employees who demonstrate a relentless commitment to safety. Employees with the best driving records are eligible for the industry’s most prestigious award, the National Waste & Recycling Association’s Driver of the Year. Republic drivers have won 70% of the Driver of the Year awards issued for the large truck category since 2009. In addition, our best drivers are recognized and rewarded with competing in our National Road-EO competition.
- Analyze Together: We analyze real-time data to make short- and long-term decisions and identify opportunities for improvement. Examples include analysis of roadway awareness training, data mapping and other employee protection and preparedness insights. With these analytics we will be able to make proactive safety decisions to generate better results.
- Innovate Together: We leverage the latest technologies, including automation, and take a data-driven approach to support our employees. These innovations include rear cameras, in-cab backing alarm systems and event recording systems throughout our fleet. We’re also working with equipment manufacturers to incorporate safety elements such as seat belt alarms, blind spot awareness, lane departure alarms and other potentially lifesaving equipment in our fleet.

We believe our Safety Amplified program will provide additional benefits for our Company and stakeholders including:

1. further strengthening relationships within the communities we service;
2. enhancing customer trust;
3. streamlining operational processes and increasing productivity;
4. delivering a reputational advantage, including positioning our Company as an employer-of-choice;
5. building and sustaining a safety culture in all areas of our business; and
6. contributing to employee engagement.

For more information regarding our safety performance, refer to our SASB report, which can be found at republicservices.com/

sustainability. The information contained on our website shall not be deemed incorporated by reference in this Annual Report on Form 10-K or in any other filing we make under the Exchange Act.

Fleet Automation

Approximately 77% of our residential routes have been converted to automated single-driver trucks. By converting our residential routes to automated service, we reduce labor costs, improve driver productivity, decrease emissions and create a safer work environment for our employees. Additionally, communities using automated vehicles have higher participation rates in recycling programs, thereby complementing our initiative to expand our recycling capabilities.

Compressed Natural Gas (CNG) Vehicles

Approximately 21% of our fleet operates on natural gas. Approximately 13% of our replacement vehicle purchases during 2020 were CNG vehicles. We believe using CNG vehicles provides us a competitive advantage in communities with strict clean emission initiatives that focus on protecting the environment. Although upfront capital costs are higher, using CNG reduces our overall fleet operating costs through lower fuel expenses. As of December 31, 2020, we operated 38 CNG fueling stations.

Fleet Electrification

We are taking a leadership position in electric technology innovation for our fleet. This is a critical step toward reducing our environmental impact through lower fleet emissions, and we believe it will also improve our total cost of ownership while providing a competitive advantage in certain communities. We are partnering with multiple manufacturers to pilot electric-powered recycling and solid waste trucks. In addition, we are working with an electric battery manufacturer to retrofit diesel-powered trucks. We will apply what we learn from these programs to future electrification initiatives.

Standardized Maintenance

Based on an industry trade publication, we operate the fifth largest vocational fleet in the United States. As of December 31, 2020, our average fleet age in years, by line of business, was as follows:

	Approximate Number of Vehicles	Approximate Average Age
Residential	6,900	7.4
Small-container	4,900	6.8
Large-container	4,500	8.7
Total	16,300	7.6

OneFleet, our standardized vehicle maintenance program, enables us to use best practices for fleet management, truck care and maintenance. Through standardization of core functions, we believe we can minimize variability in our maintenance processes, resulting in higher vehicle quality and a lower environmental footprint, while extending the average service life of our fleet. We believe operating a more reliable, greener, safer and more efficient fleet will lower our operating costs. Additionally, our focus on preventative maintenance is improving the reliability of our fleet and enabling us to provide superior service to our customers, differentiating us from our competition. The entire fleet was certified under OneFleet in 2017.

Human Capital Management

Our management of human capital is embodied in our robust people and talent agenda, the goal of which is to maintain an environment that attracts and retains the best talent. Our 35,000 full-time employees continue to be a critical component in successfully executing our strategy and running our operations. We aspire to always be a company where the best people, with exceptional talents and diverse backgrounds, can thrive.

We are dedicated to driving our human capital objectives, which include (1) representing the diversity of the communities we serve and sustaining a safe and inclusive culture, (2) maintaining a highly engaged workforce, (3) developing our talent through learning and development experiences, and (4) offering compensation and benefits that attract and retain the best workforce. We review key progress metrics such as representation, engagement and turnover and regularly report on these metrics to our Board of Directors. This level of reporting holds all of our leaders accountable for advancing our human capital agenda.

Inclusion and Diversity

We are proud of the diversity of our front-line workforce, as it closely represents the demographics of the communities that we serve. We are relentless in our focus to improve representation of diverse groups across all levels of the Company. Our commitment to inclusion and diversity starts at the top of our organization, as outlined in our Mission of Supporting an Inclusive Culture (MOSAIC), established in 2013, and supported by the MOSAIC Council. The MOSAIC Council consists of leaders from across the Company who serve as ambassadors and thought partners for inclusion and diversity. This enables us to continue to develop new strategies and activities that are tied to the needs of our employees, customers and business with the

goal of creating an even more inclusive work environment and diverse workforce.

We support inclusion and connectivity for our diverse populations through our business resource groups, including Women of Republic, VALOR (Veterans, Advocacy, Learning, Outreach and Recruiting), and the Black Employee Network (BEN) which we launched in early 2020. When the nation experienced an inflection point in race relations in 2020, we were well-positioned to address the call for social justice because it aligns with our value of respect and is reinforced by our existing commitment to advancing and supporting Black employees and Black communities.

We plan to launch a Hispanic business resource group in 2021 given the representation of LatinX employees in our workforce and the desire to create community amongst this valued population. While business resource groups help to drive a more inclusive environment for our diverse populations, we remain committed to driving inclusion for all of our employees.

In 2020, we also launched new programs and virtual events to advance awareness, education and connectivity across our workforce. Our “Let’s Talk” series has had over 3,000 virtual attendees, and is aimed to further our employees' understanding and empathy related to the topic of inclusion and diversity. We will continue to offer opportunities to help our employees conduct courageous and authentic conversations with one another, and we are committed to maintaining a work environment where people of all backgrounds feel valued and safe to share their perspectives.

Employee Engagement

We believe an engaged workforce is the greatest indicator of our success. We measure employee engagement through a third party survey, assessing employee sentiment on a variety of topics such as pride for the Company, job satisfaction and intention to stay. We have found that business units with a highly engaged workforce experience less turnover. We have also found that employees whose leaders are highly inclusive are more likely to speak up and share their perspective. In addition, we believe that engaged employees deliver better customer service and are more productive, which is directly tied to the success of our business. Our goal is to achieve and maintain employee engagement scores at or above 88% by 2030. Our employee engagement score was approximately 85% in 2020, which was consistent with our score in 2019. Approximately 92% of our employees participated in the engagement survey process in 2020, which represented an all-time-high participation rate, compared to approximately 84% in 2019. Employee engagement is a core part of our business strategy, which is why we compensate our General Managers on their employee engagement scores. This helps to ensure that our leaders are held accountable and rewarded for their efforts to drive a more engaged workforce.

Talent Development

We are committed to providing our employees with opportunities to develop throughout their careers. Our programs, including new hire onboarding and new leader assimilation, reinforce our Company values, expectations, and business approach. Targeted development experiences support the growth of people in key roles, including Driver Training, Technician Training, Supervisor Training, Sales Acceleration, General Manager Onboarding, and more. We believe these programs provide the fundamental skills necessary to be successful across roles.

Our leadership programs are a critical part of our human capital approach. We remain focused on attracting, hiring and developing early career leaders. Our rotational training and development programs, including our General Manager Acceleration Program and Leadership Trainee Program, help us attract, develop and advance a diverse and talented pool of individuals from across our organization. These programs are sponsored by our Executive Leadership team, which provides visibility and support for the career advancement of our high-potential talent across the organization. Since the beginning of these programs in 2017, over 40 leaders have graduated into leadership positions. We have found that these programs and experiences help ensure that the next generation of leaders build the necessary skills and experiences to be successful in their roles today, and in the future.

In 2020, seven of our leadership programs were converted to a virtual platform and delivered to over 2,550 employees. Providing development opportunities to distributed work forces requires innovative training methods, and we use mixed mediums to deliver trainings and instruction to our employees across the country. We remain committed to expanding employee participation in learning programs that are relevant to our business strategy and contribute to career advancement for our employees.

As we continue to grow as a Company, we are focused on developing a high performing workforce that is diverse, engaged, and well prepared to meet the needs of our customers and communities.

Rewards

We offer competitive compensation and benefits programs to our workforce to meet their personal and professional needs. Our commitment to paying market competitive wages enables us to attract and hire talent all across the country. Our approach to paying for performance supports our focus on pay equity. Our compensation packages are designed to provide employees with a stable and livable wage and growth potential. Our focus on wellness also provides our employees with access to preventative care, advice on financial planning and support for mental health, contributing to our efforts to provide a total rewards package

that improves and enhances the lives of our employees.

Differentiating Capabilities

To effectively execute our strategic plan, we prioritize the development and investment in capabilities that will differentiate us in the marketplace. These capabilities include – (1) customer zeal, (2) sustainability, and (3) digital.

Customer Zeal

The goal of our customer zeal capability is to drive customer loyalty by offering differentiated products and services specifically designed to meet our customers' needs. We believe this increases customer loyalty and willingness to pay for a higher value service.

To help our sales team identify specific customer needs and configure the right offering, we use a Priority Based Selling (PBS) technique and our Capture pricing tool nationwide.

- PBS enables us to identify and segment customers' buying priorities, and attract customers that are willing to pay for enhanced offerings.
- Capture is a cloud-based pricing tool that creates a more professional sales experience, helps realize better pricing levels at the point of sale and provides enhanced controls over the price quoting process.

In response to our customers' requests, we expanded our suite of products to include electronics recycling with BlueGuard® and universal recycling. For those services that we don't provide, we fulfill demand through our alliance partnerships while maintaining the customer facing relationship.

To help ensure a consistent customer experience, we invested in our customer service capabilities and consolidated over 100 customer service locations into three Customer Resource Centers. These state-of-the-art centers and the technology deployed provide our customer service employees with the tools and capabilities they need to provide better levels of service though a variety of communication channels. These centers enhance the customer experience and provide us a platform to reduce the cost to service our customers.

To help ensure our efforts are making an impact and building customer loyalty, we solicit feedback from our customers, including Net Promoter Score℠, so that every General Manager receives recent, relevant feedback that allows him or her the ability to reach out to customers directly and address issues immediately.

Sustainability

The goal of our sustainability capability is to protect our Blue Planet® by providing our customers with environmentally responsible solutions that support a cleaner, safer, and healthier world. We are committed to focusing on the five elements of sustainability that underpin our business strategy: Safety, People, Operations, Materials Management and Communities. These elements continue to guide our short- and long-term sustainability and business goals.

Our Board of Directors' Sustainability and Corporate Responsibility Committee has oversight responsibility with respect to our sustainability performance, our corporate responsibilities, our role as a socially responsible organization and our enterprise risks, including cyber security, environmental, climate related risks and opportunities, and reputational risks. The Committee conducts a formal comprehensive review of the Company's performance in these areas on an annual basis.

Our Blue Planet: 2030 Goals

As we grow, so does our opportunity to make a meaningful positive impact on the environment and society. In 2019, we unveiled our ambitious 2030 goals, which are aligned with the UN Sustainable Development Goals[(1)]. Each goal is aligned with the Company's five sustainability elements, and together they are designed to significantly benefit the environment and society while enhancing the foundation and profitability of our business for the long-term.

- *Safety Amplified:* Achieve zero annual employee fatalities and reduce OSHA Total Recordable Incident Rate (TRIR) to 2.0 or less by 2030
- *Engaged Workforce:* Achieve and maintain employee engagement scores at or above 88% by 2030
- *Climate Leadership:* Reduce absolute Scope 1 and 2 greenhouse gas emissions 35% by 2030[(2)], aligned with SBTi[(2)]
- *Circular Economy:* Increase recovery of key materials by 40% on a combined basis by 2030[(2)]
- *Regenerative Landfills:* Increase biogas sent to beneficial reuse by 50% by 2030[(2)]
- *Charitable Giving:* Positively impact 20 million people by 2030

We believe that reducing our impact on the planet and improving the quality of life for its inhabitants are the right things to do, and they are also necessary actions to ensure a vibrant future for our organization.

Refer to our sustainability reports for updates regarding our progress towards these goals, which can be found at republicservices.com/sustainability. The information contained on our website shall not be deemed incorporated by reference in this Annual Report on Form 10-K or in any other filing we make under the Exchange Act.

(1) We have aligned our 2030 goals with the following UN Sustainable Development Goals: (8) Decent Work and Economic Growth, (11) Sustainable Cities and Communities, (12) Responsible Consumption and Production and (13) Climate Action. SBTi, or Science Based Targets initiative, is a collaboration between CDP, the United Nations Global Compact (UNGC), World Resources Institute (WRI) and the World Wide Fund for Nature (WWF).

(2) Data points used 2017 as the baseline year.

Digital

The goal of our digital capability is to allow us to provide a consistent experience across our business while enabling our customers to do business with us through more channels and with better access to information.

We are responding to our customers' requests for options to do business with us digitally. By increasing the ease of use and functionality of our web-based market presence, we believe we enhance customer satisfaction, interaction, and connectivity while lowering our costs. These tools reinforce to our customers that they can rely on us to handle their recycling and waste service needs in a way that is easy and convenient for them.

- Our website and mobile app are online account management tools, allowing customers access to their accounts and our services.
- Our e-commerce sales channel allows customers to secure services on a real-time basis, provides capabilities to meet our customer's evolving buying preferences, and provides a lower cost sales channel.

We are also leveraging technology to digitally connect our customers, drivers, dispatchers, supervisors and trucks via our "RISE" dispatch platform and in-cab technology. We are utilizing an agile iterative approach to the development and multi-year roll-out of this technology to ensure durable adoption and an appropriate return on our investment. With the roll-out of this technology we will improve productivity through more real-time routing information and data visualization tools, increase customer connectivity and enable automated service verification communications, and enhance the employee experience by providing better tools and technology designed around employee interaction. In 2020, the rollout of the "RISE" dispatch platform was substantially completed. The rollout of the "RISE" in-cab technology enhancements will continue through 2021.

Cash Utilization Strategy

We take a consistent and balanced approach to capital allocation to drive long-term, sustainable value for our shareholders. The predictability of our free cash flows allows us to efficiently execute our capital allocation strategy, which includes investing in acquisitions and returning free cash flow to our shareholders through dividends and share repurchases. We are committed to an efficient capital structure and maintaining our investment grade credit ratings on our senior debt, which was rated BBB+ by Standard & Poor’s Ratings Services, BBB by Fitch Ratings, Inc. and Baa2 by Moody’s Investors Service, Inc. as of December 31, 2020. Such ratings have allowed us, and should continue to allow us, to readily access capital markets at competitive rates.

We manage our free cash flow by ensuring that capital expenditures and operating asset levels are appropriate in light of our existing business and growth opportunities, and by closely managing our working capital, which consists primarily of accounts receivable, accounts payable, and accrued landfill and environmental costs.

Dividends

In July 2020, our Board of Directors approved an increase in the quarterly dividend to $0.425 per share, which represents an increase of approximately 5% over the prior year. Over the last five years, our dividends have increased at a compounded annual growth rate of 7.2%. We expect to continue paying quarterly cash dividends and may consider additional dividend increases if we believe they will enhance shareholder value.

Share Repurchases

In October 2017, our Board of Directors added $2.0 billion to the existing share repurchase authorization, which continued through December 31, 2020. In October 2020, our Board of Directors approved a $2.0 billion share repurchase authorization effective starting January 1, 2021 and extending through December 31, 2023. Share repurchases under the current program may be made through open market purchases or privately negotiated transactions in accordance with applicable federal securities laws. While the Board of Directors has approved the program, the timing of any purchases, the prices and the number of shares of common stock to be purchased will be determined by our management, at its discretion, and will depend upon market conditions and other factors. The share repurchase program may be extended, suspended or discontinued at any time. On a quarterly basis, our Board of Directors reviews the intrinsic value of our stock and the parameters around which we repurchase our shares.

Shareholder Value

We are committed to creating long-term shareholder value by generating consistent earnings and cash flow growth, while continually improving returns on invested capital. Our incentive compensation programs are aligned with these objectives at all levels of management. We have an active shareholder outreach program and routinely interact with shareholders on a number of matters, including governance, executive compensation, environmental and social matters.

Management Team

We believe that building and blending a diverse team of strong industry veterans, along with talented people from other industries who bring unique skill sets, will contribute to what we call our Composite Strength. Composite Strength combines the vast, varied experience and capability of both strong environmental services industry veterans and talented people from other industries. Additionally, Composite Strength helps ensure the continuity of leadership and preservation of institutional knowledge, while also bringing in skills and new ideas from other companies outside of our industry - many of them from leading companies.

Donald W. Slager serves as the Company's Chief Executive Officer, a position he has held since January 2011. He previously held the role of President and Chief Executive Officer from January 2011 to May 2019, and served as the Company's President and Chief Operating Officer from the Allied Waste Industries, Inc. (Allied) acquisition in December 2008 until January 2011. Prior to the Allied acquisition, Mr. Slager worked for Allied from 1992 through 2008 and served in various management positions, including President and Chief Operating Officer from 2004 through 2008, and Executive Vice President and Chief Operating Officer from 2003 to 2004. From 2001 to 2003, Mr. Slager served as Senior Vice President, Operations. Mr. Slager held various management positions at Allied from 1992 to 2003, and was previously General Manager at National Waste Services, where he served in various management positions since 1985. Mr. Slager has over 35 years of experience in the solid waste industry. Mr. Slager has been a member of our Board of Directors since June 24, 2010.

Brian Bales was named Executive Vice President, Chief Development Officer in February 2015. Mr. Bales has been with Republic for over 20 years, serving as Executive Vice President, Business Development from December 2008 to February 2015, and Vice President, Corporate Development from 1998 until the Allied acquisition in December 2008. Prior to his time at Republic, Mr. Bales held roles of increasing responsibility in finance and business development for Ryder System, Inc. from 1993 to 1998, and served as chief financial officer for EDIFEX & VTA Communications from 1988 through 1993. Prior to that, Mr. Bales was an accountant for PwC (formerly Price Waterhouse) from 1986 to 1988.

Brian DelGhiaccio was named Executive Vice President, Chief Financial Officer in June 2020. Mr. DelGhiaccio has over 20 years of experience in a variety of roles of increasing responsibility. He was named Executive Vice President and Chief Transformation Officer in June 2019. Before that, Mr. DelGhiaccio served as Vice President, Investor Relations from 2012 to 2014, progressed to Senior Vice President, Finance from 2014 to 2017 and then to Senior Vice President, Business Transformation in 2017. Prior to his time at Republic Services, Mr. DelGhiaccio was a senior consultant with Arthur Andersen.

Catharine D. Ellingsen was named Executive Vice President, Chief Legal Officer, Chief Ethics & Compliance Officer, and Corporate Secretary in June 2016. Ms. Ellingsen joined Allied as Corporate Counsel in August 2001 and has experience in a variety of roles of increasing responsibility. She was named Managing Corporate Counsel in January 2003, Director, Legal and Associate General Counsel in January 2005, and Vice President and Deputy General Counsel in June 2007. Ms. Ellingsen continued as Vice President and Deputy General Counsel at Republic following the Allied acquisition in December 2008. She was then named Senior Vice President, Human Resources in August 2011 and served in that position until June 2016. Before joining Allied, Ms. Ellingsen was an attorney at Steptoe & Johnson LLP from 1996 to 2001 and at Bryan Cave LLP from 1993 to 1996.

Jeffrey A. Hughes was named Executive Vice President, Chief Administrative Officer in December 2008. Before that, Mr. Hughes served as Senior Vice President, Eastern Region Operations for Allied from 2004 until the Allied acquisition in December 2008. Mr. Hughes served as Assistant Vice President of Operations Support for Allied from 1999 to 2004 and as a District Manager for Allied from 1988 to 1999. Mr. Hughes has over 29 years of experience in the solid waste industry.

Tim Stuart was named Executive Vice President, Chief Operating Officer in May 2019. Prior to his current role, Mr. Stuart served as Executive Vice President, Operations from January 2016 to May 2019, where he was responsible for maximizing field performance, executing the operating plan, and achieving financial and operational results across the Company. Mr. Stuart previously served as the Company's East Region President from September 2013 to January 2016. He joined Republic in April 2006 as Director of Operations, and has held a variety of roles with the Company, including Area President, Vice President of Customer Experience, and Region Vice President. Mr. Stuart has over 20 years of experience in the waste industry.

Jon Vander Ark was named President in May 2019, and is responsible for overseeing the Company's operations, sales, marketing and business development. Mr. Vander Ark served as the Company's Executive Vice President, Chief Operating Officer from January 2018 to May 2019. Prior to that, Mr. Vander Ark served as the Company's Executive Vice President, Operations from March 2016 to January 2018. Mr. Vander Ark joined the Company in January 2013 as Executive Vice President, Chief Marketing Officer. Prior to joining the Company, he served as a partner at McKinsey & Company's Detroit office, managing clients across a variety of industries, including transportation, logistics, manufacturing and consumer products.

Our local and area management teams have extensive industry experience in growing, operating and managing environmental services companies and have substantial experience in their local geographic markets. This allows us to quickly respond to and

meet our customers' needs and stay in touch with local businesses and municipalities. We believe our strong area management teams allow us to effectively and efficiently drive our initiatives and help ensure consistency throughout the organization. Our area management teams and area presidents have extensive authority and responsibility over operations within their respective geographic markets. As a result of retaining experienced managers with extensive knowledge of and involvement in their local communities, we are proactive in anticipating customers' needs and adjusting to changes in our markets. We also seek to implement the best practices of our various business units throughout our operations to continue improving our operations and our operating margins.

Integrated Operations

We have a strong, national, vertically-integrated operating platform that allows us to compete more effectively and efficiently in the local markets in which we operate. Where appropriate, we seek to achieve a high rate of internalization by controlling material streams from the point of collection through recycling processing or disposal. During the year ended December 31, 2020, approximately 68% of the total solid waste volume we collected was disposed at landfills we own or operate (internalization). Our fully integrated markets generally have a lower cost of operations and more favorable cash flows than our markets that are not fully integrated. Through acquisitions, landfill operating agreements and other market development activities, we create market-specific, vertically-integrated operations typically consisting of one or more collection operations, transfer stations and landfills. We also operate recycling processing centers in markets where diversion of waste is a priority, customers are willing to pay for the service, and we can earn an appropriate return on our investment.

Our operations primarily consist of providing environmental services, including the collection and processing of recyclable materials, collection, transfer and disposal of non-hazardous solid waste, and other environmental solutions.

Collection Services

We provide residential, small-container, and large-container collection services through 345 collection operations. In 2020, approximately 75% of our total revenue was derived from our collection business, of which approximately 23% of our total revenue related to residential services, approximately 31% related to small-container services, and approximately 22% related to large-container services.

Our residential collection business involves the curbside collection of material for transport to transfer stations, or directly to landfills or recycling processing centers. We typically perform residential collection services under contracts with municipalities, which we generally secure through competitive bids, which give us exclusive rights to service all or a portion of the homes in the municipalities. These contracts usually range in duration from one to five years, although some of our exclusive franchises are for significantly longer periods. We also perform residential services on a subscription basis, in which individual households contract directly with us. The fees received for subscription residential collection are based primarily on the market, collection frequency, type of service, the distance to the disposal facility and the cost of disposal. In general, subscription residential collection fees are paid quarterly in advance by the customers receiving the service.

In our small-container business, we supply our customers with recycling and waste containers of varying sizes. We typically perform small-container collection services under one- to three-year service agreements, and fees are determined based on a number of factors including the market, collection frequency, type of equipment furnished, type and volume or weight of the material collected, transportation costs and the cost of processing or disposal. Our small-container services are typically offered to small business complexes, multi-family housing and strip malls, and include industries such as restaurants, retail, real-estate, and professional and other services.

Our large-container collection business includes both recurring and temporary customer relationships. For the recurring portion, we supply our customers with recycling and waste containers of varying sizes and rent compactors to large generators of material. We typically perform the collection services under one- to three-year service agreements, and fees are determined based on a number of factors including the market, collection frequency, type of equipment furnished, type and volume or weight of the material collected, transportation costs and the cost of disposal. Our recurring large-container services are typically offered to larger facilities, hotels and office buildings, and include industries such as manufacturing, retail, hospitality, professional and other services.

For the temporary portion of our large-container collection business, the majority of the material relates to construction and demolition activities and is typically event-driven. We provide temporary collection services on a contractual basis with terms ranging from a single pickup to one-year or longer.

Transfer Services

We own or operate 220 transfer stations. Revenue at our transfer stations is primarily generated by charging tipping or disposal fees, which accounted for approximately 6% of our revenue during 2020. Our collection operations deposit material at these transfer stations, as do other private and municipal haulers, for compaction and transfer to disposal sites or recycling processing

centers. Transfer stations provide collection operations with a cost effective means to consolidate material and reduce transportation costs while providing our landfills with an additional mechanism to extend their geographic reach.

When our own collection operations use our transfer stations, this improves internalization by allowing us to retain fees we would otherwise pay to third-party disposal sites. It also allows us to manage costs associated with material disposal because: (1) transfer trucks have larger capacities than collection trucks, allowing us to deliver more material to the landfill or processing center in each trip; (2) material is accumulated and compacted at strategically located transfer stations to increase efficiency; and (3) we can retain volume by managing the material to one of our own landfills or processing centers rather than to a competitor's.

Landfill Services

We own or operate 186 active landfills. Our tipping fees charged to third parties accounted for approximately 13% of our revenue during 2020. As of December 31, 2020, we had 38,481 permitted acres and total available permitted and probable expansion disposal capacity of 5.0 billion in-place cubic yards. The in-place capacity of our landfills is subject to change based on engineering factors, requirements of regulatory authorities, our ability to continue to operate our landfills in compliance with applicable regulations, and our ability to successfully renew operating permits and obtain expansion permits at our sites. Some of our landfills accept non-hazardous special waste, including utility ash, asbestos and contaminated soils.

Most of our active landfill sites have the potential for expanded disposal capacity beyond the currently permitted acreage. We monitor the availability of permitted disposal capacity at each of our landfills and evaluate whether to pursue an expansion at a given landfill based on estimated future waste volumes and prices, market needs, remaining capacity and the likelihood of obtaining an expansion. To satisfy future disposal demand, we are seeking to expand permitted capacity at certain landfills; however, we cannot assure you that all proposed or future expansions will be permitted.

Republic is committed to harnessing landfill gas, the natural byproduct of decomposing waste, and converting it to energy. The use of landfill gas provides economic and environmental benefits, including reducing air pollution through the capture and use of methane. As of December 31, 2020, we operated 75 landfill gas and renewable energy projects. The majority of these projects were developed and are owned by a third party.

We also have responsibility for 128 closed landfills, for which we have associated closure and post-closure obligations.

Recycling Services

We own or operate 76 recycling processing centers. These centers generate revenue through the processing and sale of old corrugated containers (OCC), old newsprint (ONP), aluminum, glass and other materials, which accounted for approximately 3% of our revenue during 2020. Approximately 78% of our total recycling processing center volume is fiber based and includes OCC, ONP and other mixed paper. During 2020, we processed and sold 2.1 million tons, excluding glass and organics, from our recycling processing centers. An additional 2.2 million tons were collected by us and delivered to third parties.

Changing market demand for recycled commodities causes volatility in commodity prices. At current volumes and mix of materials, we believe a $10 per ton change in the price of recycled commodities will change both annual revenue and operating income by approximately $12 million.

In certain instances, we issue recycling rebates to our municipal or large-container customers, which can be based on the price we receive upon the final sale of recycled commodities, a fixed contractual rate or other measures. We also receive rebates when we dispose of recycled commodities at third-party processing facilities.

As consumer demand for recycling services has increased, we have met that demand by integrating recycling components to each of our collection service offerings. Our goal is to provide a complete material stream management solution to our customers in a vertically integrated, environmentally sustainable way.

We continue to invest in proven technologies to control costs and to simplify and streamline recycling for our customers. For example, robotics and advanced sorting equipment, such as disk screens, magnets and optical sorters, identifies and separates different kinds of paper, metals, plastics and other materials to increase efficiency and maximize our recycling efforts.

Environmental Solutions

In addition to certain of our landfill disposal sites, we own or operate 6 treatment, recovery and disposal facilities, 9 salt water disposal wells and 7 deep injection wells. Environmental solutions volume is generated from the by-products of oil and natural gas exploration and production activity. Additionally, it is generated by the daily operations of industrial, petrochemical and refining facilities, including maintenance, plant turnarounds and capital projects. We provide these customers with environmentally responsible solutions to manage their waste needs including disposal of solid and liquid materials and in-plant services, such as transportation and logistics. In 2020, approximately 1% of our revenue was derived from environmental solutions.

Other Services

Other revenue consists primarily of National Accounts revenue generated from nationwide or regional contracts in markets outside our operating areas where the associated material handling services are subcontracted to local operators. Consequently, substantially all of this revenue is offset with related subcontract costs, which are recorded in cost of operations.

Competition

We operate in a competitive industry. Competition in the environmental services industry comes from a few other large, national publicly-owned companies, several regional publicly- and privately-owned companies, and thousands of small privately-owned companies. In any given market, competitors may have larger operations and greater resources. In addition, we compete with municipalities that maintain material collection or disposal operations. These municipalities may have financial advantages due to the availability of tax revenue and greater opportunities for tax-exempt financing.

We compete for collection accounts primarily based on our product offering, quality of service and price. From time-to-time, our competitors reduce the price of their services in an effort to expand market share or to win a competitively bid municipal contract. Our ability to maintain and increase prices in certain markets may be impacted by our competitors' pricing policies. This may have an effect on our future revenue and profitability.

Seasonality and Severe Weather

Our operating revenues tend to be somewhat higher in the summer months, primarily due to higher volumes of construction and demolition waste. The volumes of large-container and residential recycling and waste in certain regions of the country also tend to increase during the summer months. Our second and third quarter revenues and results of operations typically reflect this seasonality.

Our operations can be adversely affected by periods of inclement or severe weather, which could increase the volume of material collected under our existing contracts (without corresponding compensation), delay the collection and disposal of material, reduce the volume of material delivered to our disposal sites or delay the construction or expansion of our landfill sites and other facilities. Our operations also can be favorably affected by severe weather, which could increase the volume of material in situations where we are able to charge for our additional services.

Regulation

Our facilities and operations are subject to a variety of federal, state and local requirements that regulate, among other things, the environment, public health, safety, zoning and land use. Operating and other permits, licenses and other approvals generally are required for landfills and transfer stations, recycling centers, certain solid waste collection vehicles, fuel storage tanks and other equipment and facilities that we own or operate. These permits are subject to denial, revocation, modification and renewal in certain circumstances. Any revocation, modification or denial of permits could have a material adverse effect on us. Federal, state and local laws and regulations vary, but generally govern wastewater or storm water discharges, air emissions, the handling, transportation, treatment, storage and disposal of hazardous and non-hazardous waste, and the remediation of contamination associated with the release or threatened release of hazardous substances. These laws and regulations provide governmental authorities with strict powers of enforcement, which include the ability to revoke or decline to renew any of our operating permits, obtain injunctions, or impose fines or penalties in the event of violations, including criminal penalties. The U.S. EPA and various other federal, state and local authorities administer these regulations.

In order to comply with these regulations, we must incur substantial capital expenditures relating to our vehicles, landfills, transfer stations, and recycling processing centers, and in connection with our capping, closure, post-closure and environmental remediation activities. Compliance with existing and future legal and regulatory requirements, including changes relating to per- and polyfluoroalkyl substances (commonly referred to as PFAS) and other chemicals of emerging concern, and limitations or bans on disposal of certain types of wastes or on the transportation of waste, could increase our costs to operate or require additional capital expenditures.

A decrease in regulation may lower barriers to entry for our competitors. Further, we compete with counties and municipalities that operate their own collection and disposal facilities, have the benefits of tax revenue, and greater opportunities for tax-exempt financing.

We strive to conduct our operations in compliance with applicable laws, regulations and permits. However, from time to time we have been issued citations or notices from governmental authorities that have resulted in the need to expend funds for remedial work and related activities at various landfills and other facilities or in the need to expend funds for fines, penalties or settlements. We cannot assure you that citations and notices will not be issued in the future despite our strong regulatory compliance efforts. We have established final capping, closure, post-closure and remediation reserves that we believe, based on currently available information, will be adequate to cover our current estimates of regulatory costs; however, we cannot assure you that actual costs will not exceed our reserves.

Federal Regulation

The following summarizes the primary federal, environmental, and occupational health and safety-related statutes that affect our facilities and operations:

- *The Solid Waste Disposal Act, including the Resource Conservation and Recovery Act* (RCRA). RCRA establishes a framework for regulating the handling, transportation, treatment, storage and disposal of hazardous and non-hazardous solid waste, and requires states to develop programs to ensure the safe disposal of solid waste in sanitary landfills.

  Subtitle D of RCRA establishes a framework for regulating the disposal of municipal solid waste. Regulations under Subtitle D currently include minimum comprehensive solid waste management criteria and guidelines, including location restrictions, facility design and operating criteria, final capping, closure and post-closure requirements, financial assurance standards, groundwater monitoring requirements and corrective action standards. All of the states in which we operate have implemented permit programs pursuant to RCRA and Subtitle D. These state permit programs may include landfill requirements that are more stringent than those of Subtitle D. Our failure to comply with any of these environmental requirements at any of our locations may lead to temporary or permanent loss of an operating permit, which would result in costs in connection with securing new permits, reduced revenue from lost operational time, and increased third party disposal costs.

  All of our planned landfill expansions and new landfill development projects have been engineered to meet or exceed Subtitle D requirements, as applicable. Operating and design criteria for existing operations have been modified to comply with these regulations. Compliance with Subtitle D regulations has resulted in increased costs and may in the future require substantial additional expenditures in addition to other costs normally associated with our waste management activities.

- *The Comprehensive Environmental Response, Compensation and Liability Act of 1980* (CERCLA). CERCLA, among other things, provides for the cleanup of sites from which there is a release or threatened release of a hazardous substance into the environment. CERCLA may impose strict joint and several liability for the costs of cleanup and for damages to natural resources upon current owners and operators of a site, parties who were owners or operators of a site at the time the hazardous substances were disposed of, parties who transported the hazardous substances to a site, and parties who arranged for the disposal of the hazardous substances at a site. Under the authority of CERCLA and its implementing regulations, detailed requirements apply to the manner and degree of investigation and remediation of facilities and sites where hazardous substances have been or are threatened to be released into the environment. Liability under CERCLA is not dependent on the existence or disposal of only hazardous wastes, but also can be based upon the existence of small quantities of more than 700 substances currently characterized by the EPA as hazardous, many of which are found in common household waste. The EPA may also designate additional substances as hazardous. Among other things, CERCLA authorizes the federal government to investigate and remediate sites at which hazardous substances have been or are threatened to be released into the environment, or to order persons potentially liable for the cleanup of the hazardous substances to do so themselves. In addition, the EPA has established a National Priorities List of sites at which hazardous substances have been, or are threatened to be, released and which require investigation or cleanup.

  CERCLA liability is strict liability. It can be founded upon the release or threatened release, even as a result of unintentional, non-negligent or lawful action, of hazardous substances, including very small quantities of such substances. Thus, even if we have never knowingly transported or received hazardous substances, it is possible that hazardous substances have been deposited or released at landfills or other facilities that we presently or historically have owned or operated, or at properties owned by third parties to which we have transported waste. Therefore, we could be liable under CERCLA for the cost of cleaning up, or protecting against the release of, such hazardous substances at such sites and for damages to natural resources, even if those substances were deposited at our facilities before we acquired or operated them. The costs of a CERCLA cleanup can be very expensive and can include the costs of disposing of hazardous substances at appropriately-licensed facilities. Given the difficulty of obtaining insurance for environmental impairment liability, any such liability could have a material effect on our business, financial condition, results of operations and cash flows.

- *The Federal Water Pollution Control Act of 1972* (the Clean Water Act). This act regulates the discharge of pollutants from a variety of sources, including solid waste disposal sites, into streams, rivers and other waters of the United States. Runoff from our landfills and transfer stations that is discharged into surface waters through discrete conveyances must be covered by discharge permits that generally require us to conduct sampling and monitoring, and, under certain circumstances, to reduce the quantity of pollutants in those discharges. Storm water discharge regulations under the Clean Water Act require a permit for certain construction activities and for runoff from industrial operations and facilities, which may affect our operations. If a landfill or transfer station discharges wastewater through a sewage system to a publicly-owned treatment works, the facility must comply with discharge limits imposed by that treatment

works. In addition, states may adopt groundwater protection programs under the Clean Water Act or the Safe Drinking Water Act that could affect the manner in which our landfills monitor and control their waste management activities. Furthermore, if development at any of our facilities alters or affects wetlands, we may be required to secure permits before such development starts. In these situations, permitting agencies may require mitigation of wetland impacts.

- *The Clean Air Act.* The Clean Air Act imposes limitations on emissions from various sources, including landfills. In March 1996, the EPA promulgated regulations that require large municipal solid waste landfills to install landfill gas monitoring systems along with landfill gas control systems unless emissions are below established thresholds. These regulations apply to landfills that commenced construction, reconstruction or modification on or after May 30, 1991, and, principally, to landfills that can accommodate 2.5 million cubic meters or more of municipal solid waste. The regulations apply whether the landfills are active or closed. The date by which each affected landfill must have a gas collection and control system installed and made operational varies depending on calculated emission rates at the landfill. On July 14, 2016, the EPA issued final amendments to its regulations that require large landfills that commenced construction, reconstruction, or modification on or after July 17, 2014 to capture additional landfill gas to reduce emissions of methane and certain non-methane gases, which are recognized as greenhouse gases. In a separate rule finalized that same day, the EPA issued updates to its 1996 Emission Guidelines to reduce emissions of landfill gas from existing active landfills. Both actions were part of the Obama Administration's Climate Action Plan - Strategy to Reduce Methane Emissions. These and other efforts to curtail the emission of greenhouse gases and to ameliorate the effect of climate change may require our landfills to deploy more stringent emission controls and monitoring systems, with resulting capital or operating costs. Many state regulatory agencies also currently require monitoring systems for the collection and control of certain landfill gas. Certain of these state agencies are also implementing greenhouse gas control regulations that would also apply to landfill gas emissions. See Item 1A, *Risk Factors – Regulation of greenhouse gas emissions and other governmental regulations could impose costs on our operations, the magnitude of which we cannot yet estimate*, in this Form 10-K.

  In addition, our vehicle fleet also may become subject to higher efficiency standards or other carbon-emission restrictions. Over the past decade, the EPA and the National Highway Traffic Safety Administration (NHTSA) have adopted regulations mandating the reduction of vehicle tail pipe emissions as a means of reducing greenhouse gas emissions. The regulations take the form of fuel economy standards. The EPA and the NHTSA have developed fuel economy standards in two vehicle categories: (1) passenger automobiles and light-duty trucks (collectively, light-duty vehicles); and (2) heavy-duty trucks, including solid waste collection vehicles and tractor trailers. We own and operate vehicles in both categories. For light-duty vehicles, in May 2010 the EPA and the NHTSA finalized fuel economy standards for model years 2012 through 2016. In October 2011, the EPA and the NHTSA initiated a second round of rulemaking for light-duty vehicles for model years 2017 through 2025. In 2018, the EPA and the NHTSA proposed to revise the light-duty vehicle standards for model years 2021 through 2024 to make them less stringent; final action on the proposal occurred in 2020 but has been challenged in court. In August 2011, the EPA and the NHTSA finalized standards for heavy-duty trucks, including solid waste collection vehicles and tractor trailers, for model years 2014 through 2018. On August 16, 2016, the EPA and the NHTSA jointly issued additional regulations that would impose more stringent standards for heavy-duty vehicles through model-year 2027. In issuing the proposed fuel economy standards for heavy-duty trucks (including tractor trailers), the government estimated that the increased equipment cost would be recouped over a period of two years for a tractor/trailer combo, and over a period of 6 years for a garbage truck, and each vehicle would continue to save fuel costs over its operating life.

- *The Occupational Safety and Health Act of 1970* (OSHA). This act authorizes the Occupational Safety and Health Administration of the U.S. Department of Labor to promulgate occupational safety and health standards. A number of these standards, including standards for notices of hazardous chemicals and the handling of asbestos, apply to our facilities and operations.

State and Local Regulation

Each state in which we operate has its own laws and regulations governing solid waste disposal, water and air pollution, and, in most cases, releases and cleanup of hazardous substances and liabilities for such matters. States also have adopted regulations governing the design, operation, maintenance and closure of landfills and transfer stations. Some counties, municipalities and other local governments have adopted similar laws and regulations. In addition, our operations may be affected by the trend in many states toward requiring solid waste reduction and recycling programs. For example, several states have enacted laws that require counties or municipalities to adopt comprehensive plans to reduce, through solid waste planning, composting, recycling or other programs, the volume of solid waste deposited in landfills. Additionally, laws and regulations restricting the disposal of certain waste in solid waste landfills, including yard waste, food waste, newspapers, beverage containers, unshredded tires, lead-acid batteries, electronic wastes and household appliances, have been adopted in several states and are being considered in others. Legislative and regulatory measures to mandate or encourage waste reduction at the source and waste recycling also

have been considered, or are under consideration by, the U.S. Congress and the EPA.

To construct, operate and expand a landfill, we must obtain one or more construction or operating permits, as well as zoning and land use approvals. These permits and approvals may be burdensome to obtain and to comply with, are often opposed by neighboring landowners and citizens' groups, may be subject to periodic renewal, and are subject to denial, modification, non-renewal and revocation by the issuing agency. Significant compliance disclosure obligations often accompany these processes. In connection with our acquisition of existing landfills, we may be required to spend considerable time, effort and money to bring the acquired facilities into compliance with applicable requirements and to obtain the permits and approvals necessary to increase their capacity.

Other Regulations

Many of our facilities own and operate underground storage tanks that are generally used to store petroleum-based products. These tanks can be subject to federal, state and local laws and regulations that mandate their periodic testing, upgrading, closure and removal. In the event of leaks or releases from these tanks, these regulations require that polluted groundwater and soils be remediated. If underground storage tanks we own or operate leak, we could be liable for response costs and, if the leakage migrates onto the property of others, we could be liable for damages to third parties. We are unaware of facts indicating that issues of compliance with regulations related to underground storage tanks will have a material adverse effect on our consolidated financial condition, results of operations or cash flows.

With regard to our solid waste transportation operations, we are subject to the jurisdiction of the Surface Transportation Board and are regulated by the Federal Highway Administration, Office of Motor Carriers, and by regulatory agencies in states that regulate such matters. Various state and local government authorities have adopted, or are considering adopting, laws and regulations that would restrict the transportation of solid waste across state, county, or other jurisdictional lines. In 1978, the U.S. Supreme Court ruled that a law that restricts the importation of out-of-state solid waste is unconstitutional; however, states have attempted to distinguish proposed laws from those involved in and implicated by that ruling. In 1994, the U.S. Supreme Court ruled that a flow control law, which attempted to restrict solid waste from leaving its place of generation, imposes an impermissible burden upon interstate commerce and is unconstitutional. In 2007, however, the U.S. Supreme Court upheld the right of a local government to direct the flow of solid waste to a publicly-owned and publicly-operated waste facility. A number of county and other local jurisdictions have enacted ordinances or other regulations restricting the free movement of solid waste across jurisdictional boundaries. Other governments may enact similar regulations in the future. These regulations may cause a decline in volumes of waste delivered to our landfills or transfer stations and may increase our costs of disposal, thereby adversely affecting our operations and our financial results.

Liabilities Established for Landfill and Environmental Costs

We have established reserves for landfill and environmental costs, which include landfill site final capping, closure and post-closure costs. We periodically reassess such costs based on various methods and assumptions regarding landfill airspace and the technical requirements of Subtitle D of RCRA, and we adjust our amortization rates used to expense final capping, closure and post-closure costs accordingly. Based on current information and regulatory requirements, we believe that our recorded reserves for such landfill and environmental expenditures are adequate; however, environmental laws may change, and we cannot assure you that our recorded reserves will be adequate to cover requirements under existing or new environmental laws and regulations, future changes or interpretations of existing laws and regulations, or adverse environmental conditions previously unknown to us. Refer to the *Contractual Obligations* section of our Management's Discussion and Analysis of Financial Condition and Results of Operations contained in Item 7 of this Form 10-K and to Note 2, *Summary of Significant Accounting Policies*, to our consolidated financial statements in Item 8 of this Form 10-K for further information.

Liability Insurance and Bonding

The nature of our business exposes us to the possible risk of liabilities arising out of our operations, including damages to the environment, property, employees or the general public. We focus on operating safely and prudently, but occasionally we receive claims, alleging damages, negligence or other wrongdoing in the planning or performance of work, which resulted in harm to the environment, property, employees or the general public. These liabilities can be significant. We also could be subject to fines and civil and criminal penalties in connection with alleged violations of regulatory requirements. We maintain various policies of insurance that, subject to limitations, exclusions, or deductibles, provide coverage for these types of claims. While we believe the amount of insurance is appropriate for our type of business, we can neither assure you that such insurance would be adequate, in scope or amount, in the event of a major loss, nor that we will not be exposed to uninsured liabilities that could have a material adverse effect on our consolidated financial condition, results of operations or cash flows. We also cannot assure you that we would continue to maintain the insurance should market conditions in the insurance industry make such coverage cost prohibitive.

Accruals for deductibles are based on claims filed and actuarial estimates of claims development and claims incurred but not

reported. Due to the variable condition of the insurance market, we have experienced, and may experience in the future, increased deductible retention levels and increased premiums or unavailability of insurance. As we assume more risk through higher retention levels, we may experience more variability in our insurance reserves and expense.

In the normal course of business, we also purchase surety bonds, insurance policies, letters of credit or marketable securities deposits in connection with municipal residential collection contracts, financial assurance for closure and post-closure of landfills, environmental remediation, environmental permits, and business licenses and permits as a financial guarantee of our performance.

Availability of Reports and Other Information

Our corporate website is republicservices.com. We make available on that website, free of charge, access to our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, Proxy Statements on Schedule 14A, and amendments to those materials filed or furnished with the Securities and Exchange Commission (SEC) pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934. We make such materials available as soon as reasonably practicable after we electronically submit them to the SEC. Our corporate website also contains our Certificate of Incorporation, Bylaws, Corporate Governance Guidelines, Code of Ethics and Conduct, Political Contributions Policy, Human Rights Policy, and Charters of the Audit Committee, Management Development and Compensation Committee, Nominating and Corporate Governance Committee, and Sustainability and Corporate Responsibility Committee of the Board of Directors. In addition, the SEC makes available at its website (sec.gov), free of charge, reports, proxy statements, and other information regarding issuers, such as us, that file electronically with the SEC. Information on our website or the SEC website is not part of this Annual Report on Form 10-K. We intend to satisfy the disclosure requirements under Item 5.05 of Form 8-K and applicable New York Stock Exchange (NYSE) rules regarding amendments to or waivers of our Code of Ethics by posting this information on our website at republicservices.com.

ITEM 1A. RISK FACTORS

Disclosure Regarding Forward-Looking Statements

This Annual Report on Form 10-K contains certain forward-looking information about us that is intended to be covered by the safe harbor for "forward-looking statements" provided by the Private Securities Litigation Reform Act of 1995. Forward-looking statements are statements that are not historical facts. Words such as "guidance," "expect," "will," "may," "anticipate," "plan," "estimate," "project," "intend," "should," "can," "likely," "could," "outlook" and similar expressions are intended to identify forward-looking statements. Among other sections of this Form 10-K, the Risk Factors and Management's Discussion and Analysis of Financial Condition and Results of Operations include forward-looking statements. These statements include statements about our plans, strategies and prospects. Forward-looking statements are not guarantees of performance. These statements are based upon the current beliefs and expectations of our management and are subject to risk and uncertainties that could cause actual results to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot assure you that the expectations will prove to be correct. Among the factors that could cause actual results to differ materially from the expectations expressed in the forward-looking statements are:

- general economic and market conditions, including inflation and changes in fuel, interest rates, labor, risk, health insurance and other variable costs that generally are not within our control, and our exposure to credit and counterparty risk;
- fluctuations in prices for recycled commodities that we sell to customers;
- the effects of the evolving COVID-19 pandemic and actions taken in response thereto;
- whether our estimates and assumptions concerning our selected balance sheet accounts, income tax accounts, final capping, closure, post-closure and remediation costs, available airspace, projected costs and expenses related to our landfills and property and equipment, fair values of acquired assets and liabilities assumed in our acquisitions, and labor, fuel rates and economic and inflationary trends, turn out to be correct or appropriate;
- competition and demand for services in the environmental services industry;
- price increases to our customers, which may not be adequate to offset the impact of increased costs, including labor, third-party disposal and fuel, and may cause us to lose volume;
- our ability to manage growth and execute our growth strategy;
- our compliance with, and future changes in, environmental and flow control regulations and our ability to obtain approvals from regulatory agencies in connection with operating and expanding our landfills;

- the impact on us of our substantial indebtedness, including on our ability to obtain financing on acceptable terms to finance our operations and growth strategy and to operate within the limitations imposed by financing arrangements;
- our ability to retain our investment grade ratings for our debt;
- our dependence on key personnel;
- our dependence on large, long-term collection, transfer and disposal contracts;
- the capital intensive nature of our business, which may consume cash in excess of cash flow from operations;
- exposure to environmental liabilities or remediation requirements, to the extent not adequately covered by insurance, which could result in substantial expenses;
- risks associated with undisclosed liabilities of acquired businesses;
- risks associated with pending and future legal proceedings, including litigation, audits or investigations brought by or before any governmental body;
- severe weather conditions, including those brought about by climate change, which could impair our financial results by causing increased costs, loss of revenue, reduced operational efficiency or disruptions to our operations;
- compliance with existing and future legal and regulatory requirements, including changes relating to PFAS and other chemicals of emerging concern, and limitations or bans on disposal of certain types of wastes or on the transportation of waste, which could limit our ability to conduct or grow our business, increase our costs to operate or require additional capital expenditures;
- safety and operational risks, including the risk of personal injury to our employees or third parties;
- potential increases in our costs if we are required to provide additional funding to any multiemployer pension plan to which we contribute or if a withdrawal event (including our voluntary withdrawal, which we consider from time to time, or the mass withdrawal of all contributing employers from any underfunded multiemployer pension plan) occurs with respect to any such plan;
- the negative impact on our operations of union organizing campaigns, work stoppages or labor shortages;
- the negative effect that trends toward requiring recycling, waste reduction at the source and prohibiting the disposal of certain types of wastes could have on volumes of waste going to landfills;
- changes by the Financial Accounting Standards Board or other accounting regulatory bodies to generally accepted accounting principles or policies;
- the impact of U.S. and international tax laws and regulations on our business;
- risks related to interruptions and breaches of our information technology systems that could adversely affect, or temporarily disable, all or a portion of our operations or have a negative effect on our infrastructure;
- the negative impact that a cyber-security incident could have on our business and our relationships with customers and employees; and
- acts of war, riots or terrorism, including the continuing war on terrorism, as well as actions taken or to be taken by the United States or other governments as a result of further acts or threats of terrorism, and the impact of these acts on economic, financial and social conditions in the United States.

The risks included here are not exhaustive. Refer to the Risk Factors in this Item 1A for further discussion regarding our exposure to risks. You should be aware that any forward-looking statement in this Annual Report on Form 10-K and the documents incorporated herein by reference or elsewhere, speaks only as of the date on which we make it. Additionally, new risk factors emerge from time to time and it is not possible for us to predict all such risk factors, or to assess the impact such risk factors might have on our business or the extent to which any factor or combination of factors may cause actual results to differ materially from those contained in any forward-looking statements. You should not place undue reliance on any forward-looking statement. Except to the extent required by applicable law or regulation, we undertake no obligation to update or publish revised forward-looking statements to reflect events or circumstances after the date of this Annual Report on Form 10-K and the documents incorporated by reference, as the case may be, or to reflect the occurrence of unanticipated events.

Risks Related to Our Business and Operations

The environmental services industry is highly competitive and includes competitors that may have greater financial and operational resources, flexibility to reduce prices or other competitive advantages that could make it difficult for us to compete effectively.

We principally compete with large national waste management companies, numerous municipalities, and numerous regional and local companies. Competition for collection accounts is typically based on the quality of services, ease of doing business and/or price. Competition for disposal business is primarily based on geographic location, quality of operations, and price. One of our competitors may have greater financial and operational resources than we do. Further, many counties and municipalities that operate their own collection and disposal facilities have the benefits of tax revenue and greater opportunities for tax-exempt financing. Our ability to obtain solid waste volume for our landfills also may be limited by the fact that some major collection operations also own or operate landfills to which they send their waste. In certain markets in which we do not own or operate a landfill, our collection operations may have difficulty competing effectively. If we were to lose market share or if we were to lower prices to address competitive issues, it could negatively impact our consolidated financial condition, results of operations and cash flows.

Increases in the cost of fuel or petrochemicals would increase our operating expenses, and we cannot assure you that we would be able to recover such cost increases from our customers.

We depend on fuel purchased in the open market to operate our collection and transfer trucks and other equipment used for collection, transfer and disposal. Fuel prices are unpredictable and fluctuate significantly based on events beyond our control, including geopolitical developments, actions by the Organization of the Petroleum Exporting Countries and other oil and gas producers, changes in refinery operations, supply and demand for oil and gas, war, terrorism and unrest in oil-producing countries, adverse weather and regional production patterns. Due to contractual or market factors, we may not be able to offset increased fuel costs resulting from such volatility through fuel recovery fees. Our fuel costs were $271.7 million in 2020, or 2.7% of revenue, compared to $347.9 million in 2019, or 3.4% of revenue.

At current consumption levels, a twenty-cent per gallon change in the price of diesel fuel changes our fuel costs by approximately $25 million on an annual basis. Offsetting these changes in fuel expense would be changes in our fuel recovery fee charged to our customers. At current participation rates, we believe a twenty-cent per gallon change in the price of diesel fuel changes our fuel recovery fee by approximately $25 million. A substantial rise or drop in fuel costs could materially affect our revenue and cost of operations.

Over the last decade, regulations have been adopted mandating changes in the composition of fuels for motor vehicles. The renewable fuel standards that the EPA sets annually affect the type of fuel our motor vehicle fleet uses. Pursuant to the Energy Independence and Security Act of 2007, the EPA establishes annual renewable fuel volume requirements for four different categories of renewable fuels (renewable fuel, advanced biofuel, cellulosic biofuel, and biomass-based diesel). These volume requirements set standards for the proportion of refiners' or importers' total fuel volume that must contain renewable fuels (as designated by regulation). The total volume metrics for each year vary based upon a number of factors (e.g., the availability of such fuels), and it is difficult to predict the ultimate quantity that the EPA will eventually mandate for future years. These regulations are one of many factors that may affect the cost of the fuel we use.

Part of our fleet of vehicles is powered by CNG and we also operate CNG fueling stations. We have invested higher upfront capital costs in order to purchase and support our CNG vehicles and fueling stations in order to reduce our overall fleet operating costs through lower fuel expenses and to create a competitive advantage in communities that focus on protecting the environment. CNG is not yet widely adopted in North America. As the CNG industry develops, new regulations, the availability of alternative fuel technologies, fluctuations in the price or availability of CNG or reductions in tax incentives for the use of CNG vehicles could substantially affect our revenue and costs of operations and reduce the benefits sought by investing in CNG vehicles and fueling stations.

Our operations also require the use of products (such as liners at our landfills) whose costs may vary with the price of petrochemicals. An increase in the price of petrochemicals could increase the cost of those products, which would increase our operating and capital costs. Petrochemical prices, and hence our operating and capital costs, may be further affected by regulatory efforts to reduce greenhouse gases from the industries that produce such petrochemicals. We are also susceptible to increases in fuel recovery fees from our vendors.

Fluctuations in prices for recycled commodities that we sell to customers may adversely affect our consolidated financial condition, results of operations and cash flows.

We purchase or collect and process recyclable materials such as paper, cardboard, plastics, aluminum and other metals for sale to third parties. Our results of operations may be affected by changing prices or market requirements for recyclable materials. The resale and purchase prices of, and market demand for, recyclable materials are volatile due to changes in economic

conditions and numerous other factors beyond our control. For instance, in 2017 the Chinese government imposed strict limits on the import of recyclable materials, including by restricting the amount of contaminants allowed in imported recycled paper. These limitations significantly decreased the global demand for recyclable materials and resulted in lower commodity prices. Significant price fluctuations or increased operating costs may affect our consolidated financial condition, results of operations and cash flows. In 2020, approximately 78% of our recycling processing center volume was fiber based and included OCC, ONP and other mixed paper.

At current volumes and mix of materials, we believe a $10 per ton change in the price of recycled commodities would change annual revenue and operating income by approximately $12 million on an annual basis. Accordingly, a substantial rise or drop in recycled commodity prices could materially affect our revenue and operating income. Although we have entered into hedging agreements to help offset volatility in recycled commodity prices in the past, we cannot provide assurance that we will enter into these agreements in the future.

Adverse weather conditions, including those brought about by climate change, may limit our operations and increase the costs of collection, transfer, and disposal.

Our collection, transfer, and landfill operations could be adversely impacted by extended periods of inclement weather, or by increased severity of weather and climate extremes resulting from climate change, some of which we may already be experiencing. Recent studies suggest that global warming is occurring faster than previously projected, with the EPA projecting a 3° to 12° Fahrenheit temperature increase in the United States by the end of the century. In addition to sea level rise, this temperature increase is expected to result in more severe droughts, floods, and other extreme weather events. Any of these factors could increase the volume of material collected under our existing contracts (without corresponding compensation), interfere with collection, transfer station and landfill operations, delay the development of landfill capacity or reduce the volume of material generated by our customers. In addition, adverse weather conditions may result in the temporary suspension of our operations, which can significantly affect our operating results in the affected regions during those periods.

The environmental services industry is a capital-intensive industry and our capital expenditures may exceed current expectations, which could require us to obtain additional funding for our operations or impair our ability to grow our business.

Our ability to remain competitive and to grow our business largely depends on our cash flow from operations and access to capital. If our capital efficiency programs cannot offset the effect of inflation and business growth, it may be necessary to increase the amount we spend. Additionally, if we make acquisitions or further expand our operations, the amount we spend on capital, capping, closure, post-closure, environmental remediation and other items will increase. Our cash needs also will increase if the expenditures for capping, closure, post-closure and remediation activities increase above our current estimates, which may occur over a long period due to changes in federal, state or local government requirements and other factors beyond our control. Increases in expenditures would negatively impact our cash flows.

We may be unable to obtain or maintain required permits or to expand existing permitted capacity of our landfills, which could decrease our revenue and increase our costs.

We cannot assure you that we will be able to obtain or maintain the permits required for our operations because permits to operate new landfills and transfer stations, or to expand the permitted capacity of existing landfills or increase acceptable volume at transfer stations, have become more difficult and expensive to obtain and maintain. Permits often take years to obtain as a result of numerous hearings and compliance requirements with regard to zoning, environmental and other regulations. These permits are also often subject to resistance from citizen or other groups and other political pressures. Local communities and citizen groups, adjacent landowners, governmental agencies and others may oppose the issuance of a permit or approval we may need, allege violations of the permits under which we currently operate or laws or regulations to which we are subject, or seek to impose liability on us for environmental damage. Such actions could also create risks related to our reputation, which may limit our ability to do business. Responding to these challenges has at times increased our costs and extended the time associated with establishing new landfills and transfer stations and expanding existing landfills. In addition, failure to receive regulatory and zoning approval may prohibit us from establishing new landfills or transfer stations or expanding existing landfills. Our failure to obtain the required permits to operate our landfills and transfer stations could have a material adverse effect on our consolidated financial condition, results of operations and cash flows. In addition, we may have to dispose collected waste at landfills operated by our competitors or haul the waste long distances at a higher cost to one of our other landfills, either of which could significantly increase our waste disposal costs.

If we do not appropriately estimate landfill capping, closure, post-closure and remediation costs, our financial condition and results of operations may be adversely affected.

A landfill must be closed and capped, and post-closure maintenance commenced, once the landfill's permitted capacity is reached and additional capacity is not authorized. Further, we undertake remediation activities at some of our solid waste

facilities. We have significant financial obligations relating to capping, closure, post-closure and remediation costs at our existing owned or operated landfills, and will have material financial obligations with respect to any future owned or operated landfills. We establish accruals for the estimated costs associated with capping, closure, post-closure and remediation obligations. We could underestimate such costs, and our financial obligations for capping, closure, post-closure or remediation costs could exceed the amounts accrued or amounts otherwise receivable pursuant to trust funds established for this purpose. Additionally, if a landfill must be closed earlier than expected or its remaining airspace is reduced for any other reason, the accruals for capping, closure, post-closure and remediation could be required to be accelerated. If our capping, closure, post-closure or remediation costs exceed the amounts accrued, or if such accruals are required to be accelerated, this could have a material adverse effect on our consolidated financial condition, results of operations and cash flows.

Alternatives to landfill disposal could reduce our disposal volumes and cause our revenues and operating results to decline.

Most of the states in which we operate landfills require counties and municipalities to formulate comprehensive plans to reduce the volume of solid waste deposited in landfills through waste planning, composting, recycling or other programs. Some state and local governments mandate waste reduction at the source and prohibit the disposal of certain types of wastes, such as yard waste, at landfills. Further, many of our customers voluntarily are diverting waste to alternatives to landfill disposal, such as recycling and composting, while also working to reduce the amount of waste they generate. Many of the largest companies in the U.S. are setting zero-waste goals in which they strive to send no waste to landfills. Some jurisdictions have enacted extended producer responsibility regulations, which are designed to make producers fund the post-use life cycle of their products by providing recycling programs for their products or otherwise taking their post-use products back from consumers. Although such actions help to protect our environment and reduce the impact of waste on climate change, they have reduced, and will in the future reduce, the volume of waste going to landfills and may affect the prices that we can charge for landfill disposal. Accordingly, we cannot assure you that we will be able to operate our landfills at their current volumes or charge current prices for landfill disposal services due to possible decreases in demand for such services. If we cannot expand our service offerings and grow lines of business to service waste streams that do not go to landfills and to provide services for customers that wish to reduce waste entirely, this could have a negative effect on our consolidated financial condition, results of operations and cash flows. Further, even if we can develop such service offerings and lines of business, disposal alternatives nonetheless could have a negative effect on our consolidated financial condition, results of operations and cash flows.

The possibility of landfill and transfer station site development projects, or expansion projects not being completed or certain other events could result in material charges to income.

In accordance with U.S. GAAP, we capitalize certain expenditures relating to development, expansion and other projects. If a facility or operation is permanently shut down or determined to be impaired, or a development, expansion or other project is not completed or is determined to be impaired, we will charge against earnings any unamortized capitalized expenditures relating to such facility or project that we are unable to recover through sale, transfer or otherwise. We also carry a significant amount of goodwill on our consolidated balance sheets, which we must assess for impairment annually, and more frequently in the case of certain triggering events. We may incur charges against earnings in accordance with this policy, or other events may cause impairments. Such charges could have a material adverse effect on our results of operations.

The business and assets we operate expose us to safety, operational and other risks, including the risk of personal injury to our employees or third parties.

The provision of environmental services, including the operation of landfills, CNG fueling stations, a substantial fleet of trucks and other waste-related assets, involves risks. These risks include, among others, the risk of truck accidents, equipment defects, malfunctions and failures, improper use of dangerous equipment, the release of hazardous substances, fire and explosion, any of which could result in environmental liability, personal injury, loss of life, business interruption or property damage or destruction. While we carry insurance to cover many contingencies, and seek to minimize our exposure to these risks through maintenance, training and compliance programs, any substantial losses could have a material adverse effect on our business, results of operations and financial condition.

We may be subject to workforce influences, including work stoppages, which could increase our operating costs and disrupt our operations.

As of December 31, 2020, approximately 24% of our workforce was covered by collective bargaining agreements. If our unionized workers were to engage in strikes, work stoppages or other slowdowns, we could experience a significant disruption of our operations and an increase in our operating costs, which could have an adverse effect on our consolidated financial condition, results of operations and cash flows. Additional groups of employees may seek union representation in the future and, if successful, the negotiation of collective bargaining agreements could divert management's attention and result in increased operating costs. If a greater percentage of our workforce becomes unionized, our consolidated financial condition, results of operations and cash flows could be adversely impacted due to the potential for increased operating costs.

Risks Related to our Legal and Regulatory Environment

We are subject to costly environmental regulations and flow-control regulations that may affect our operating margins, restrict our operations and subject us to additional liability.

Complying with laws and regulations governing the collection, treatment, storage, transfer and disposal of material, air quality and emissions of greenhouse gases, water quality and the remediation of contamination associated with the release of hazardous substances is costly. Laws and regulations often require us to enhance or replace our equipment and to modify landfill operations or initiate final closure of a landfill. We cannot assure you that we will be able to implement price increases sufficient to offset the costs of complying with these laws and regulations. In addition, environmental regulatory changes, including those relating to per- and polyfluoroalkyl substances (commonly referred to as PFAS) and other chemicals of emerging concern, could accelerate or increase expenditures for capping, closure, post-closure and environmental and remediation activities at solid waste facilities and obligate us to spend sums in addition to those presently accrued for such purposes, which could have a negative effect on our consolidated financial position, results of operations and cash flows. For example, the EPA has indicated it is considering listing certain PFAS as hazardous substances under CERCLA, which if finalized could trigger additional obligations or liabilities under CERCLA or other laws and regulations.

Our business is and will continue to be affected by state or local laws or regulations that restrict the transportation of solid waste across state, county or other jurisdictional lines or that direct the flow of waste to a specified facility or facilities. Such laws and regulations could negatively affect our operations, resulting in declines in landfill volumes and increased costs of alternate disposal.

Regulation of greenhouse gas emissions and other governmental regulations could impose costs on our operations, the magnitude of which we cannot yet estimate.

Efforts to curtail the emission of greenhouse gases and to ameliorate the effects of climate change continue to progress. Our landfill operations emit anthropogenic methane, identified as a greenhouse gas, and our vehicle fleet emits, among other things, carbon dioxide, which also is a greenhouse gas. While passage of comprehensive, federal climate change legislation appears unlikely in the near term, we expect any such legislation, if enacted, to impose costs on our operations, which could be material.

Absent comprehensive federal legislation to control greenhouse gas emissions, the EPA has taken certain actions administratively under its existing Clean Air Act authority. The EPA is compelled to issue rules by the U.S. Supreme Court's April 2007 *Massachusetts v. EPA* ruling that greenhouse gases are pollutants for purposes of the Clean Air Act and the EPA's December 2009 finding that continued emissions of greenhouse gases endanger human health and welfare. With respect to our light- and heavy-duty vehicle fleet, the EPA has finalized regulations limiting greenhouse gas emissions and increasing fuel economy standards. The EPA and the NHTSA have finalized such regulations applicable to light-duty vehicles through model year 2025. In 2018, the EPA and the NHTSA proposed to revise the light-duty vehicle standards for model years 2021 through 2024 to make them less stringent; final action on the proposal took place in 2020 but has been challenged in court. On August 16, 2016, the EPA and the NHTSA issued additional regulations that would impose more stringent standards for heavy-duty vehicles through model-year 2027. These standards and further federal efforts to curtail greenhouse gas emissions and to increase the fuel efficiency of light-duty and heavy-duty vehicles could have a material adverse effect on our consolidated financial condition, results of operations and cash flows.

With regard to greenhouse gas emissions from our landfills, on July 14, 2016, the EPA issued amendments to its regulations that require large landfills that commenced construction, reconstruction or modification on or after July 17, 2014 to capture additional landfill gas to reduce emissions of methane and certain non-methane gases, which are recognized as greenhouse gases. In a separate action finalized that same day, the EPA issued updates to its 1996 Emission Guidelines to reduce emissions of landfill gas from existing active landfills. Both actions were part of the Obama Administration's Climate Action Plan - Strategy to Reduce Methane Emissions. The Trump Administration proposed to reconsider these rules, but its action has been subject to litigation, which is still pending. The Biden Administration has announced that climate change is one of its top priorities. If these regulations, or an amended version of them eventually goes into effect, they may require our landfills to deploy more stringent emission controls and monitoring systems, with resulting capital or operating costs. The application of these or other greenhouse gas regulations to our landfills could have a material adverse effect on our landfill operations and on our consolidated financial condition, results of operations and cash flows. We cannot predict what other actions or regulations the current administration may undertake that would affect our industry. While increased or decreased regulations may affect our operating costs, the substantial cost of regulatory compliance reduces the ability of new competitors to enter the industry.

We may have environmental liabilities that are not covered by our insurance. Changes in insurance markets also may impact our financial results.

We may incur environmental liabilities arising from our operations or properties. We maintain high deductibles for our environmental liability insurance coverage. If we were to incur substantial liability for environmental damage, our insurance

coverage may be inadequate to cover such liability. This could have a material adverse effect on our consolidated financial condition, results of operations and cash flows.

Also, due to the variable condition of the insurance market, we have experienced, and may experience in the future, increased insurance retention levels and increased premiums or unavailability of insurance. As we assume more risk for insurance through higher retention levels, we may experience more variability in our insurance reserves and expense.

Despite our efforts, we may incur additional liability under environmental laws in excess of amounts presently known and accrued.

We are a potentially responsible party at many sites under CERCLA, which provides for the remediation of contaminated facilities and imposes strict, joint and several liability for the cost of remediation on current owners and operators of a facility at which there has been a release or a threatened release of a hazardous substance. CERCLA liability also extends to parties who were site owners and operators at the time hazardous substances were disposed, and on persons who arrange for the disposal of such substances at the facility (e.g., generators of the waste and transporters who selected the disposal site). Hundreds of substances are defined as hazardous under CERCLA and their presence, even in minute amounts, can result in substantial liability.

Notwithstanding our efforts to comply with applicable environmental laws, we may have additional liability under environmental laws in excess of our current reserves because, among other things, hazardous substances may be present in waste collected by us or disposed of in our landfills (or in waste collected, transported or disposed of in the past by businesses we have acquired), environmental laws or regulations may change, or there may be adverse environmental conditions that develop or were otherwise previously unknown to us. For example, during 2012 through 2014, we recorded an aggregate of approximately $400 million in charges relating to environmental remediation at our closed landfill in Bridgeton, Missouri. Actual costs for liabilities at Bridgeton or other sites could be significantly greater than amounts we have accrued for these purposes. Environmental liabilities in excess of our current reserves could have a material adverse effect on our consolidated financial position, results of operations and cash flows.

Currently pending or future litigation or governmental proceedings could result in material adverse consequences, including judgments or settlements.

We are and will continue to be involved in lawsuits, regulatory inquiries, and governmental and other legal proceedings. Many of these matters raise complicated factual and legal issues and are subject to uncertainties. The timing of the final resolutions to lawsuits, regulatory inquiries, and governmental and other legal proceedings is uncertain. Further, the possible outcomes or resolutions to these matters could include adverse judgments or settlements, either of which could require substantial payments and adversely affect our consolidated financial condition, results of operations and cash flows.

For example, we incur costs to defend against litigation brought by government agencies and private parties who allege we are in violation of our permits and applicable environmental laws and regulations, or who assert claims alleging nuisance, environmental damage, personal injury or property damage. As a result, we may be required to pay fines or judgments or implement corrective measures, or we may have our permits and licenses modified or revoked. A significant judgment against us, the loss of a significant permit or license, or the imposition of a significant fine could have a material adverse effect on our consolidated financial condition, results of operations and cash flows. We establish accruals for our estimates of the costs associated with lawsuits, regulatory, governmental and other legal proceedings. We could underestimate such accruals. Such shortfalls could result in significant unanticipated charges to income.

Risks Related to Financial Strategy and Indebtedness

We have substantial indebtedness, which may limit our financial flexibility.

As of December 31, 2020, we had approximately $9 billion in principal value of debt and finance leases outstanding. This amount of indebtedness and our debt service requirements may limit our financial flexibility to access additional capital and make capital expenditures and other investments in our business, to withstand economic downturns and interest rate increases, to plan for or react to changes in our business and our industry, and to comply with the financial and other covenants of our debt instruments. Further, our ability to comply with these financial and other covenants may be affected by changes in economic or business conditions or other events that are beyond our control. If we do not comply with these covenants, we may be required to take actions such as reducing or delaying capital expenditures, reducing or eliminating dividends or stock repurchases, selling assets, restructuring or refinancing all or part of our existing debt, or seeking additional equity capital.

We may be unable to maintain our credit ratings or execute our financial strategy.

Our ability to execute our financial strategy depends in part on our ability to maintain investment grade ratings on our debt. The credit rating process is contingent upon a number of factors, many of which are beyond our control. We cannot assure you that

we will be able to maintain our investment grade ratings in the future. If we were unable to do so, our interest expense would increase and our ability to obtain financing on favorable terms may be adversely affected.

Our financial strategy also depends on our ability to generate sufficient cash flow to reinvest in our existing business, fund internal growth, acquire other environmental services businesses, pay dividends, repurchase stock, and take other actions to enhance shareholder value. We cannot assure you that we will succeed in executing our broad-based pricing initiatives, that we will generate sufficient cash flow to execute our financial strategy, that we will be able to pay cash dividends at our present rate, or increase them, or that we will be able to continue our share repurchase program.

Weakness in the U.S. economy may expose us to credit risk for amounts due from governmental entities, large national accounts, industrial customers and others.

Weakness in the U.S. economy, including contractions caused by the COVID-19 pandemic, reduces the amount of taxes collected by various governmental entities. We provide services to a number of these entities, including numerous municipalities. These governmental entities may suffer financial difficulties resulting from a decrease in tax revenue and may ultimately be unable or unwilling to pay amounts owed to us. In addition, weakness in the economy may cause other customers, including our large national accounts, or industrial or environmental services clients, to suffer financial difficulties and ultimately to be unable or unwilling to pay amounts owed to us. This could negatively impact our consolidated financial condition, results of operations and cash flows.

Our consolidated financial statements are based on estimates and assumptions that may differ from actual results.

Our consolidated financial statements have been prepared in accordance with U.S. GAAP and necessarily include amounts based on management's estimates. Actual results may differ from these amounts. Significant items requiring management to make subjective or complex judgments that are inherently uncertain include the recoverability of long-lived assets, the depletion and amortization of landfill development costs, accruals for final capping, closure and post-closure costs, valuation allowances for accounts receivable and deferred tax assets, liabilities for potential litigation, claims and assessments, and liabilities for environmental remediation, multiemployer pension plans, employee benefit plans, deferred taxes, uncertain tax positions, insurance and our estimates of the fair values of assets acquired and liabilities assumed in any acquisition. We cannot assure you that the liabilities recorded for items such as these will be adequate to cover the costs we ultimately will face.

Our obligation to fund multiemployer pension plans to which we contribute, or our withdrawal from such plans, may have an adverse effect on us.

We participate in multiemployer pension plans that generally provide retirement benefits to participants of contributing employers. We do not administer these plans and generally are not represented on the boards of trustees of these plans. The Pension Protection Act enacted in 2006 (the PPA) requires under-funded pension plans to improve their funding ratios. Based on the information available to us, we believe that some of the multiemployer plans to which we contribute are either critical or endangered as those terms are defined in the PPA. We cannot presently determine the amount of additional funding, if any, we may be required to make to these plans. However, plan assessments could have a material adverse effect on our results of operations or cash flows for a given period.

Further, under current law, upon the termination of a multiemployer pension plan, or in the event of a withdrawal by us (which we consider from time to time) or a mass withdrawal of contributing employers (each, a Withdrawal Event), we would be required to make payments to the plan for our proportionate share of the plan's unfunded vested liabilities. We cannot assure you that there will not be a Withdrawal Event with respect to any of the multiemployer pension plans to which we contribute or that, in the event of such a Withdrawal Event, the amounts we would be required to contribute would not have a material adverse effect on our consolidated financial condition, results of operations and cash flows.

For additional discussion and detail regarding multiemployer pension plans see Note 12, *Employee Benefit Plans,* of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

The costs of providing for pension benefits and related funding requirements are subject to changes in pension fund values and fluctuating actuarial assumptions, and may have a material adverse effect on our financial condition, results of operations and cash flows.

We sponsor a defined benefit pension plan that is funded with trustee assets invested in a diversified portfolio of debt and equity securities. Our costs for providing such benefits and related funding requirements are subject to changes in the market value of plan assets. Our pension expenses and related funding requirements are also subject to various actuarial calculations and assumptions, which may differ materially from actual results due to changing market and economic conditions, interest rates and other factors. A significant increase in our pension obligations and funding requirements could have a material adverse effect on our consolidated financial condition, results of operations and cash flows.

Risks Related to Our Growth Strategy

We may be unable to manage our growth effectively.

Our growth strategy places significant demands on our financial, operational and management resources. To continue our growth, we may need to add administrative, managerial and other personnel, and may need to make additional investments in operations and systems. We cannot assure you that we will be able to find and train qualified personnel, or do so on a timely basis, or to expand or otherwise modify our operations and systems to the extent, and in the time, required.

We may be unable to execute our acquisition growth strategy.

Our ability to execute our growth strategy depends in part on our ability to identify and acquire desirable acquisition candidates and on our ability to successfully integrate acquired operations into our business. The integration of our operations with those of acquired companies may present significant challenges to our management. In addition, competition for acquisition candidates may prevent us from acquiring certain acquisition candidates. Thus, we cannot assure you that:

- desirable acquisition candidates exist or will be identified;
- we will be able to acquire any of the candidates identified;
- we will effectively integrate and manage companies we acquire; or
- any acquisitions will be profitable or accretive to our earnings.

If any of these factors force us to alter our growth strategy, our growth prospects could be adversely affected.

Businesses we acquire may have undisclosed liabilities.

Our due diligence investigations of acquisition candidates may fail to discover certain undisclosed liabilities. If we acquire a company with undisclosed liabilities such as environmental, remediation or contractual liabilities, as a successor owner we may be responsible for such undisclosed liabilities. We try to minimize our exposure to such liabilities by conducting due diligence, by obtaining indemnification from each seller of the acquired companies, by deferring payment of a portion of the purchase price as security for the indemnification, by obtaining representations and warranties insurance and by acquiring only specified assets. However, we cannot assure you that we will be able to obtain indemnification or insurance coverage or that any indemnification or insurance coverage obtained will be enforceable, collectible or sufficient in amount, scope or duration to fully offset any undisclosed liabilities arising from our acquisitions.

Risks Related to Technology and Intellectual Property

Our strategy includes an increasing dependence on technology in our operations. If any of our key technology fails, our business could be adversely affected.

Our operations are increasingly dependent on technology. Our information technology systems are critical to our ability to drive profitable growth through differentiation, continue the implementation of standardized processes and deliver a consistent customer experience. One of our three differentiating capabilities is to enable our customers to do business with us through more channels and with better access to information and, accordingly, we have made substantial investment in our e-commerce platform. Problems with the operation of the information or communication technology systems we use could adversely affect, or temporarily disable, all or a portion of our operations. Inabilities and delays in implementing new systems can also affect our ability to realize projected or expected revenue or cost savings. Further, any systems failures could impede our ability to timely collect and report financial results in accordance with applicable laws.

Emerging technologies, including those that are used to recycle and process waste as an alternative to disposal of waste in landfills, represent risks, as well as opportunities, to our current business model. The costs associated with developing or investing in emerging technologies could require substantial capital and adversely affect our results of operations and cash flows. Delays in the development or implementation of such emerging technologies and difficulties in marketing new products or services based on emerging technologies could have similar negative impacts. Our financial results may suffer if we are not able to develop or license emerging technologies, or if a competitor obtains exclusive rights to an emerging technology that disrupts the current methods used in the environmental services industry.

A cyber security incident could negatively impact our business and our relationships with customers.

We use information technology, including computer and information networks, in substantially all aspects of our business operations. We also use mobile devices, social networking and other online activities to connect with our employees and our customers. Such uses give rise to cyber security risks, including security breach, espionage, system disruption, theft and inadvertent release of information. Our business involves the storage and transmission of numerous classes of sensitive and/or

confidential information and intellectual property, including customers' personal information, private information about employees, and financial and strategic information about us and our business partners. We also rely on a Payment Card Industry compliant third party to protect our customers' credit card information. In connection with our strategy to grow through acquisitions and to pursue new initiatives that improve our operations and cost structure, we are also expanding and improving our information technologies, resulting in a larger technological presence and corresponding exposure to cyber security risk. If we fail to assess and identify cyber security risks associated with acquisitions and new initiatives, we may become increasingly vulnerable to such risks. Additionally, while we have implemented measures to prevent security breaches and cyber incidents, our preventive measures and incident response efforts may not be entirely effective. Also, the regulatory environment surrounding information security and privacy is increasingly demanding, with the frequent imposition of new and constantly changing requirements. This changing regulatory landscape may cause increasingly complex compliance challenges, which may increase our compliance costs. Any failure to comply with these changing security and privacy laws and regulations could result in significant penalties, fines, legal challenges and reputational harm. The theft, destruction, loss, misappropriation, or release of sensitive and/or confidential information or intellectual property, or interference with our information technology systems or the technology systems of third parties on which we rely, could result in business disruption, negative publicity, brand damage, violation of privacy laws, loss of customers, potential liability and competitive disadvantage.

Other Risks Relevant to Our Business

The COVID-19 pandemic has negatively impacted, and is likely to continue to negatively impact, our business, results of operations and financial performance.

The COVID-19 pandemic is having an unprecedented effect on the U.S. economy, which has created significant uncertainties. These uncertainties include, but are not limited to, the potential adverse effect of the pandemic on the economy, our supply chain partners, our employees and our customers. As a result of the COVID-19 pandemic, our costs of doing business have increased, including for the purchase of additional safety equipment and hygiene products, increased facility and equipment cleaning, meals for our frontline employees, the expansion of certain aspects of our existing healthcare programs, and the guarantee of a minimum hourly work week to certain frontline employees regardless of service decreases. Additionally, if the pandemic continues and conditions worsen or if there is a large outbreak or resurgence of COVID-19 in various regions, we expect to experience additional adverse impacts on our operational and commercial activities and our collections of accounts receivable, which adverse impacts may be material. The degree to which COVID-19 impacts our results going forward will depend on future developments, which are uncertain and cannot be predicted, including, but not limited to, the duration and spread of COVID-19, its severity, the actions to contain the virus or treat its impact, and how quickly and to what extent normal economic and operating conditions can resume. Any of the foregoing factors, or other cascading effects of the COVID-19 pandemic that are not currently foreseeable, could materially increase our costs, negatively impact our business and damage our results of operations and our liquidity position, possibly to a significant degree.

Price increases may not be adequate to offset the effect of increased costs and may cause us to lose volume.

We seek to secure price increases necessary to offset increased costs, improve our operating margins and earn an appropriate return on our substantial investments in assets such as our landfills. From time to time, our competitors reduce their prices in an effort to expand their market share. Contractual, general economic or market-specific conditions also may limit our ability to raise prices. For example, many of our contracts have price adjustment provisions that are tied to an index such as the consumer price index. Particularly in a weak U.S. economy, our costs may increase in excess of the increase, if any, in the consumer price index. This may continue to be the case even when the U.S. economy recovers because a recovery in the environmental services industry historically has lagged behind a recovery in the general economy. As a result, we may be unable to offset increases in costs, improve our operating margins and obtain adequate investment returns through price increases. Price increases also might cause us to lose volume to lower-cost competitors.

The loss of key personnel could have a material adverse effect on our consolidated financial condition, results of operations, cash flows and growth prospects.

Our future success depends on the continued contributions of several key employees and officers. The loss of the services of key employees and officers, whether through resignation or other causes, or the inability to attract additional qualified personnel, could have a material adverse effect on our consolidated financial condition, results of operations, cash flows and growth prospects. In some of our markets, we compete with other similar businesses which may drive labor costs or reduce the amount of available qualified personnel.

The introduction of new accounting rules, laws or regulations could adversely impact our reported results of operations.

Complying with new accounting rules, laws or regulations could adversely impact our results of operations or cause unanticipated fluctuations in our results of operations or financial conditions in future periods.

Weakened global economic conditions, including those resulting from the recent COVID-19 pandemic, may harm our industry, business and results of operations.

Our business is directly affected by changes in national and general economic factors and overall economic activity that are outside of our control, including consumer confidence and interest rates. For example, the COVID-19 pandemic has negatively impacted the global economy, disrupted global supply chains and created significant volatility and disruption of financial markets. A weak economy generally results in decreases in volumes, which adversely affects our revenues. In addition, we have certain fixed costs (e.g., facility expense associated with long-term leases, depreciation expense and accretion expense), which may be difficult to adjust quickly to match declining volume levels. Consumer uncertainty and the loss of consumer confidence may decrease overall economic activity and thereby limit the amount of services we provide. Additionally, a decline in volumes may result in increased competitive pricing pressure and increased customer turnover, resulting in lower revenue and increased operating costs. Operating in an environment of worsening economic conditions could have a material adverse effect on our consolidated financial condition, results of operations and cash flows. Further, recovery in the environmental services industry historically has lagged behind recovery in the general economy. Accordingly, we cannot assure you that an improvement in general economic conditions will result in an immediate, or any, improvement in our consolidated financial condition, results of operations or cash flows.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Our corporate office is located at 18500 North Allied Way, Phoenix, Arizona 85054, where we currently lease approximately 145,000 square feet of office space.

Our principal property and equipment consists of land, landfills, buildings, vehicles and equipment. We own or lease real property in the states in which we conduct operations. As of December 31, 2020, we operated facilities in 41 states through 345 collection operations, 220 transfer stations, 186 active landfills, 76 recycling processing centers, 6 treatment, recovery and disposal facilities, 9 salt water disposal wells and 7 deep injection wells. In the aggregate, our active solid waste landfills total approximately 106,731 acres, including 38,481 permitted acres. We are engaged in 75 landfill gas-to-energy and renewable energy projects and had post-closure responsibility for 128 closed landfills. We believe that our property and equipment are adequate for our current needs.

ITEM 3. LEGAL PROCEEDINGS

General Legal Proceedings

We are subject to extensive and evolving laws and regulations and have implemented safeguards to respond to regulatory requirements. In the normal course of our business, we become involved in legal proceedings. Some may result in fines, penalties or judgments against us, or settlements, which may impact earnings and cash flows for a particular period. Although we cannot predict the ultimate outcome of any legal matter with certainty, we do not believe the outcome of any of our pending legal proceedings will have a material adverse effect on our consolidated financial position, results of operations or cash flows.

As used in the immediately following paragraph, the term *legal proceedings* refers to litigation and similar claims against us and our subsidiaries, excluding: (1) ordinary course accidents, general commercial liability and workers' compensation claims, which are covered by insurance programs, subject to customary deductibles, and which, together with self-insured employee health care costs, are discussed in Note 7, *Other Liabilities,* to our consolidated financial statements in Item 8 of this Form 10-K; and (2) environmental remediation liabilities, which totaled $462.8 million at December 31, 2020 and which are discussed in Note 8, *Landfill and Environmental Costs,* to our consolidated financial statements in Item 8 of this Form 10-K.

We accrue for legal proceedings when losses become probable and reasonably estimable. We have recorded an aggregate accrual of approximately $27 million relating to our outstanding legal proceedings as of December 31, 2020. As of the end of each applicable reporting period, we review each of our legal proceedings and, where it is probable that a liability has been incurred, we accrue for all probable and reasonably estimable losses. Where we are able to reasonably estimate a range of losses we may incur with respect to a matter, we record an accrual for the amount within the range that constitutes our best estimate. If we are able to reasonably estimate a range but no amount within the range appears to be a better estimate than any other, we use the amount that is the low end of such range. If we had used the high ends of such ranges, our aggregate potential liability would be approximately $10 million higher than the amount recorded as of December 31, 2020.

Legal Proceedings over Certain Environmental Matters Involving Governmental Authorities with Possible Sanctions of $1,000,000 or More

Item 103 of the SEC's Regulation S-K requires disclosure of certain environmental matters when a governmental authority is a party to the proceedings and the proceedings involve potential monetary sanctions unless we reasonably believe the monetary sanctions will not equal or exceed a threshold which we determine is reasonably designed to result in disclosure of any such proceeding that is material to our business or financial condition. We have determined such disclosure threshold to be $1,000,000. We are disclosing the following matter in accordance with that requirement:

Pine Avenue Landfill Matter

On December 20, 2016, the EPA issued a Finding of Violation (FOV) to Allied Waste Niagara Falls Landfill, LLC (Allied-Niagara). The FOV alleges violations of the Clean Air Act and associated regulations relating to operation of Allied-Niagara's Pine Avenue Landfill in Niagara County, New York. On October 16, 2017, Allied-Niagara received a civil penalty demand from the EPA. The demand proposes a penalty of $0.6 million or $2.5 million, depending on the results of requested sampling analysis at the site. Allied-Niagara is negotiating a resolution to the FOV, including the amount of the penalty.

ITEM 4. MINE SAFETY DISCLOSURES

None.

PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Market Information, Holders and Dividends

The principal market for our common stock is the New York Stock Exchange, and it is traded under the symbol RSG.

There were 547 holders of record of our common stock at February 17, 2021, which does not include beneficial owners for whom Cede & Co. or others act as nominees.

In October 2020, our Board of Directors declared a regular quarterly dividend of $0.425 per share for shareholders of record on January 4, 2021. We expect to continue to pay quarterly cash dividends, and we may consider increasing our dividends if we believe it will enhance shareholder value.

We have the ability under our credit facilities to pay dividends and repurchase our common stock if we are in compliance with the financial covenants in our credit facilities. As of December 31, 2020, we were in compliance with those financial covenants.

Issuer Purchases of Equity Securities

The following table provides information relating to our purchases of shares of our common stock during the three months ended December 31, 2020:

	Total Number of Shares Purchased (a)	Average Price Paid per Share (a)	Total Number of Shares Purchased as Part of Publicly Announced Program (b)	Dollar Value of Shares that May Yet Be Purchased Under the Program (c)
October 1 – 31	—	$ —	—	$ 605,818,899
November 1 – 30	—	$ —	—	$ 605,818,899
December 1 – 31	—	$ —	—	$ 605,818,899
	—		—	

(a) In October 2017, our Board of Directors added $2.0 billion to the existing share repurchase authorization, which expired on December 31, 2020. In October 2020, our Board of Directors approved a $2.0 billion share repurchase authorization effective starting January 1, 2021 and extending through December 31, 2023. Share repurchases under the program may be made through open market purchases or privately negotiated transactions in accordance with applicable federal securities laws. While the Board of Directors has approved the program, the timing of any purchases, the prices and the number of shares of common stock to be purchased will be determined by our management, at its discretion, and will depend upon market conditions and other factors. The share repurchase program may be extended, suspended or discontinued at any time. As of December 31, 2020, there were no repurchased shares pending settlement.

(b) The total number of shares purchased as part of the publicly announced program were all purchased pursuant to the October 2017 authorization.

(c) Shares that may be purchased under the program exclude shares of common stock that may be surrendered to satisfy statutory minimum tax withholding obligations in connection with the vesting of restricted stock units and performance stock units issued to employees.

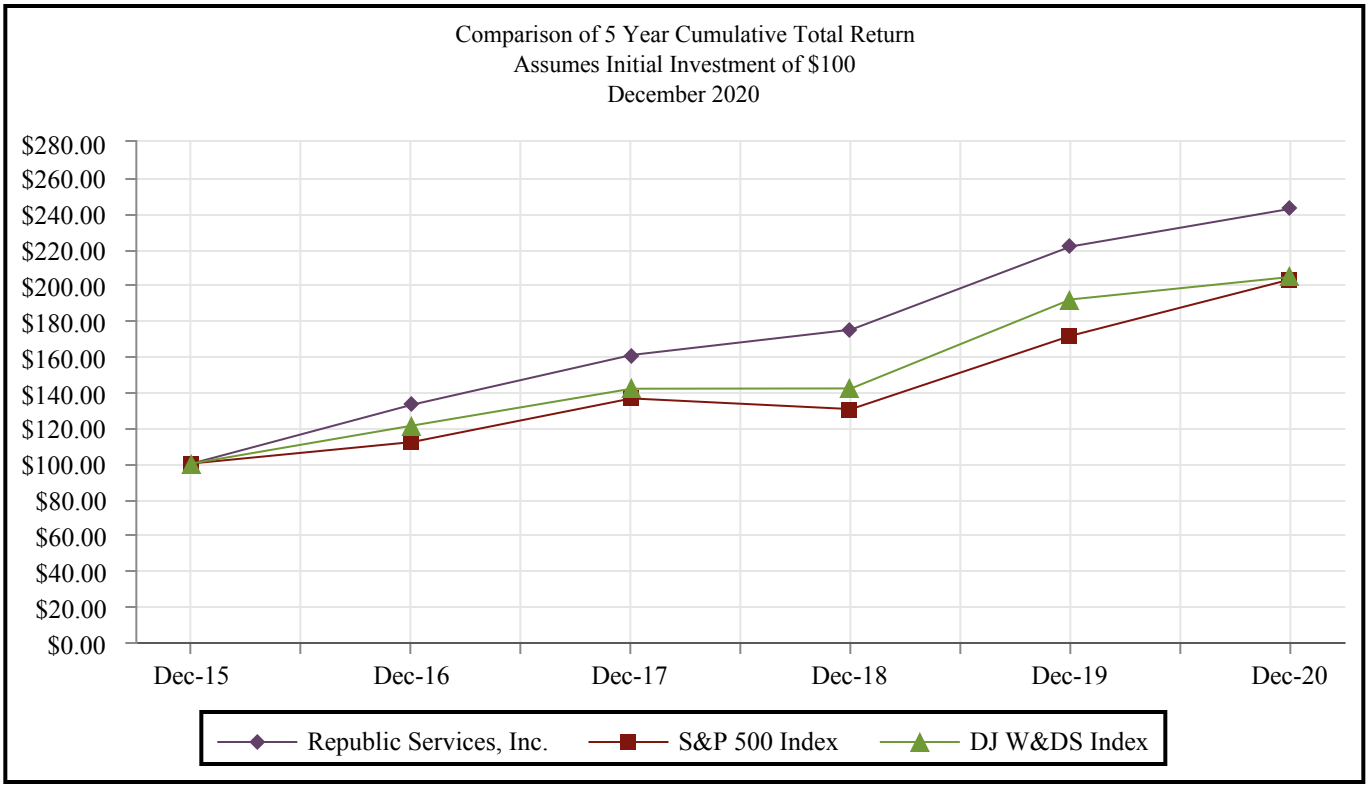
Recent Sales of Unregistered Securities

There were no sales of unregistered securities during the three months ended December 31, 2020.

Performance Graph

The following graph compares the performance of our common stock to the Standard & Poor's 500 Stock Index (S&P 500 Index) and the Dow Jones Waste & Disposal Services Index (DJ W&DS Index). The graph covers the period from December 31, 2015 to December 31, 2020 and assumes that the value of the investment in our common stock and in each index was $100 as of December 31, 2015 and that all dividends were reinvested.

The following performance graph and related information shall not be deemed "soliciting material" or to be "filed" with the SEC, nor shall such information be incorporated by reference into any future filing under the Securities Act of 1933 or the Securities Exchange Act of 1934, each as amended, except to the extent that we specifically incorporate it by reference into such filing.



	Indexed Returns for the Years Ended December 31,					
	2015	2016	2017	2018	2019	2020
Republic Services, Inc.	$ 100.00	$ 132.85	$ 160.72	$ 174.93	$ 221.47	$ 242.58
S&P 500 Index	$ 100.00	$ 111.96	$ 136.40	$ 130.42	$ 171.49	$ 203.04
DJ W&DS Index	$ 100.00	$ 121.15	$ 141.84	$ 142.00	$ 191.83	$ 204.42

ITEM 6. SELECTED FINANCIAL DATA

You should read the following Selected Financial Data in conjunction with Item 7, *Management's Discussion and Analysis of Financial Condition and Results of Operations* and Item 8, *Financial Statements and Supplementary Data*, which includes our consolidated financial statements and notes thereto as of and for the years ended December 31, 2020 and 2019, in this Form 10-K.

These historical results are not necessarily indicative of the results to be expected in the future. Amounts are in millions, except per share data.

	Years Ended December 31,				
	2020	2019	2018	2017	2016
Statements of Income Data:					
Revenue	$ 10,153.6	$ 10,299.4	$ 10,040.9	$ 10,041.5	$ 9,387.7
Operating income	$ 1,709.1	$ 1,787.2	$ 1,735.8	$ 1,668.5	$ 1,537.5
Net income	$ 969.6	$ 1,073.8	$ 1,037.6	$ 1,279.0	$ 613.2
Basic earnings per share	$ 3.03	$ 3.34	$ 3.17	$ 3.79	$ 1.79
Diluted earnings per share	$ 3.02	$ 3.33	$ 3.16	$ 3.77	$ 1.78
Cash dividends per common share	$ 1.66	$ 1.56	$ 1.44	$ 1.33	$ 1.24
Statements of Cash Flows Data:					
Cash provided by operating activities	$ 2,471.6	$ 2,352.1	$ 2,242.8	$ 1,910.7	$ 1,847.8
Purchases of property and equipment	$ 1,194.6	$ 1,207.1	$ 1,071.8	$ 989.8	$ 927.8
Proceeds from the sale of property and equipment	$ 30.1	$ 21.7	$ 31.6	$ 6.1	$ 9.8
Balance Sheet Data:					
Cash and cash equivalents	$ 38.2	$ 47.1	$ 70.5	$ 83.3	$ 67.8
Restricted cash and marketable securities	$ 149.1	$ 179.4	$ 108.1	$ 141.1	$ 90.5
Total assets	$ 23,434.0	$ 22,683.8	$ 21,617.0	$ 21,147.0	$ 20,629.6
Total debt	$ 8,934.2	$ 8,688.5	$ 8,337.5	$ 8,187.4	$ 7,658.9
Total stockholders' equity	$ 8,488.8	$ 8,120.9	$ 7,929.5	$ 7,961.1	$ 7,693.7

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

You should read the following discussion in conjunction with our audited consolidated financial statements and the notes thereto included in Item 8 of this Form 10-K. This discussion may contain forward-looking statements that anticipate results that are subject to uncertainty. We discuss in more detail various factors that could cause actual results to differ from expectations in Item 1A, Risk Factors in this Form 10-K.

For further discussion regarding our results of operations for the year ended December 31, 2019 as compared to the year ended December 31, 2018, refer to Item 7, *Management's Discussion and Analysis of Financial Condition and Results of Operations*, in our Annual Report on Form 10-K for the fiscal year ended December 31, 2019.

Recent Developments

In March 2020, the World Health Organization declared the outbreak of a new strain of coronavirus (COVID-19) a pandemic. The COVID-19 pandemic has negatively impacted the global economy, disrupted global supply chains and created significant volatility and disruption of financial markets. The full extent of the impact of the COVID-19 pandemic on our operations and financial performance will depend on future developments, including the duration and spread of the pandemic, all of which are uncertain and cannot be predicted at this time.

Both national and local government agencies have implemented steps to slow the spread of the virus, including shelter-in-place orders and the mandatory shutdown of certain businesses. During this time, we continued to provide essential services to our customers. In mid-March 2020, certain customers in our small- and large-container businesses began adjusting their service levels, which included a decrease in the frequency of pickups or a temporary pause in service. In addition, we experienced a decline in volumes disposed at certain of our landfills and transfer stations. As service levels decreased, we also experienced a decrease in certain costs of our operations which are variable in nature. This decline in service activity peaked in the first half of April and gradually recovered thereafter as local economies began to gradually reopen and customers began to resume service. Large outbreaks and resurgences of COVID-19 in various regions may result in a reinstitution of certain restrictions and further adjustments in our service levels, which would negatively impact our business.

The demand for our environmental solutions business depends on the continued demand for, and production of, oil and natural gas in certain shale basins located in the United States. During the year ended December 31, 2020, the price of crude oil and natural gas reached historic lows, resulting in a decrease in rig counts and drilling activity that led to a year-over-year decrease in revenue from our environmental solutions business. During the three months ended December 31, 2020, we recognized a $42.6 million charge as a loss on business divestitures and impairments, net in our consolidated income statement resulting from management's decision to exit certain product offerings and geographic basins in our upstream environmental solutions business. As the carrying value of the assets associated with these operations was no longer recoverable, we impaired the entire net book value of certain assets, comprised mainly of equipment, vehicles, and containers. On at least a quarterly basis, we will continue to monitor the effect of the evolving COVID-19 pandemic on our business and review our estimates for recoverability of assets.

In April 2020, we launched our Committed to Serve initiative to help our employees, customers and communities across the United States. We committed $20 million to support frontline employees and their families, as well as small business customers in the local communities where we serve. In addition to this initiative, we have experienced an increase in certain costs of doing business as a direct result of the COVID-19 pandemic, including costs for additional safety equipment and hygiene products and increased facility and equipment cleaning. These costs are intended to assist in protecting the safety of our frontline employees as we continue to provide an essential service to our customers. We also incurred incremental costs for guaranteeing certain frontline employees a minimum hourly work week regardless of service decreases. In the fourth quarter, we recognized our frontline employees for their commitment and contributions to their communities during the pandemic with a $500 award that was paid in January 2021. In 2020, we incurred costs of $68.4 million as a direct and incremental result of the COVID-19 pandemic. In addition, we incurred incremental costs associated with expanding certain aspects of our existing healthcare programs. We expect to incur similar costs throughout 2021, and potentially into future years, although we expect the annual amount of such costs to be less than those incurred in 2020.

The effects of the COVID-19 pandemic on our business are described in more detail in the *Results of Operations* discussion in this *Management's Discussion and Analysis of Financial Condition and Results of Operations*.

2021 Financial Guidance

In 2021, we will focus on driving profitable growth, making disciplined acquisition investments, maintaining an inclusive and engaging culture for our people, and advancing technology to empower our employees, increase connectivity with our customers and drive operational excellence. Our team remains focused on executing our strategy to deliver consistent earnings and free cash flow growth, and improving return on invested capital. We are committed to maintaining an efficient capital structure, preserving our investment grade credit ratings and increasing cash returned to our shareholders.

Our guidance is based on current economic conditions and does not assume any significant changes in the overall economy in 2021. Specific guidance follows:

Revenue

We expect an increase in average yield of approximately 2.5% and volume growth to be in a range of 1.5% to 2.0%.

Adjusted Diluted Earnings per Share

The following is a summary of anticipated adjusted diluted earnings per share for the year ending December 31, 2021 compared to the actual adjusted diluted earnings per share for the year ended December 31, 2020. Adjusted diluted earnings per share is not a measure determined in accordance with U.S. GAAP:

	(Anticipated) Year Ending December 31, 2021	(Actual) Year Ended December 31, 2020
Diluted earnings per share	$ 3.61 to 3.68	$ 3.02
Loss on extinguishment of debt and other related costs	—	0.23
Withdrawal costs - multiemployer pension funds	—	0.08
Restructuring charges	0.04 to 0.05	0.05
Loss on business divestitures and impairments, net	—	0.21
Bridgeton insurance recovery	—	(0.03)
Adjusted diluted earnings per share	$ 3.65 to 3.73	$ 3.56

We believe that the presentation of adjusted diluted earnings per share, which excludes loss on extinguishment of debt and other related costs, multiemployer pension fund withdrawal costs, restructuring charges, loss on business divestitures and impairments, net, and Bridgeton insurance recoveries provides an understanding of operational activities before the financial

effect of certain items. We use this measure, and believe investors will find it helpful, in understanding the ongoing performance of our operations separate from items that have a disproportionate effect on our results for a particular period. We have incurred comparable charges and costs in prior periods, and similar types of adjustments can reasonably be expected to be recorded in future periods. Our definition of adjusted diluted earnings per share may not be comparable to similarly titled measures presented by other companies.

Overview

Republic is one of the largest providers of environmental services in the United States, as measured by revenue. As of December 31, 2020, we operated facilities in 41 states through 345 collection operations, 220 transfer stations, 186 active landfills, 76 recycling processing centers, 6 treatment, recovery and disposal facilities, 9 salt water disposal wells, and 7 deep injection wells. We are engaged in 75 landfill gas-to-energy and renewable energy projects and had post-closure responsibility for 128 closed landfills.

Revenue for the year ended December 31, 2020 decreased by (1.4)% to $10,153.6 million compared to $10,299.4 million for the same period in 2019. This change in revenue is due to decreased volumes of (3.1)%, fuel recovery fees of (0.7)%, and environmental solutions of (0.9)%, partially offset by increases in average yield of 2.6%, acquisitions, net of divestitures of 0.4%, recycling processing and commodity sales of 0.3%, and one additional workday as compared to 2019.

The following table summarizes our revenue, costs and expenses for the years ended December 31, 2020 and 2019 (in millions of dollars and as a percentage of revenue):

	2020		2019	
Revenue	$ 10,153.6	100.0 %	$ 10,299.4	100.0 %
Expenses:				
Cost of operations	6,100.5	60.1	6,298.4	61.2
Depreciation, amortization and depletion of property and equipment	1,015.9	10.0	985.8	9.6
Amortization of other intangible assets	21.2	0.2	20.4	0.2
Amortization of other assets	38.8	0.4	34.3	0.3
Accretion	82.9	0.8	81.9	0.8
Selling, general and administrative	1,053.0	10.4	1,091.9	10.6
Withdrawal costs - multiemployer pension funds	34.5	0.3	—	—
Loss (gain) on business divestitures and impairments, net	77.7	0.8	(14.7)	(0.1)
Restructuring charges	20.0	0.2	14.2	0.1
Operating income	$ 1,709.1	16.8 %	$ 1,787.2	17.3 %

Our pre-tax income was $1,142.7 million for the year ended December 31, 2020, compared to $1,295.8 million in 2019. Our net income attributable to Republic Services, Inc. was $967.2 million, or $3.02 per diluted share for 2020, compared to $1,073.3 million, or $3.33 per diluted share, for 2019.

During 2020 and 2019, we recorded a number of charges, other expenses and benefits that impacted our pre-tax income, net income attributable to Republic Services, Inc. (net income – Republic) and diluted earnings per share as noted in the following table (in millions, except per share data). Additionally, see our *Results of Operations* section of this *Management's Discussion and Analysis of Financial Condition and Results of Operations* for a discussion of other items that impacted our earnings during the years ended December 31, 2020 and 2019. For comparative purposes, prior year amounts have been reclassified to conform to current year presentation.

	Year Ended December 31, 2020			Year Ended December 31, 2019		
	Pre-tax Income	Net Income - Republic	Diluted Earnings per Share	Pre-tax Income	Net Income - Republic	Diluted Earnings per Share
As reported	$ 1,142.7	$ 967.2	$ 3.02	$ 1,295.8	$ 1,073.3	$ 3.33
Loss on extinguishment of debt and other related costs	99.1	73.0	0.23	—	—	—
Restructuring charges	20.0	14.8	0.05	14.2	10.4	0.04
Loss (gain) on business divestitures and impairments, net	77.7	65.5	0.21	(14.7)	(8.7)	(0.03)
Withdrawal costs - multiemployer pension funds	34.5	25.5	0.08	—	—	—
Fire-damage related costs	—	—	—	7.7	5.7	0.02
Bridgeton insurance recovery	(10.8)	(8.2)	(0.03)	(24.0)	(18.3)	(0.06)
Incremental contract startup costs - large municipal contract [(1)]	—	—	—	0.7	0.5	—
Total adjustments	220.5	170.6	0.54	(16.1)	(10.4)	(0.03)
As adjusted	$ 1,363.2	$ 1,137.8	$ 3.56	$ 1,279.7	$ 1,062.9	$ 3.30

(1) The aggregate impact to adjusted diluted earnings per share totals to less than $0.01 for the year ended December 31, 2019.

We believe that presenting adjusted pre-tax income, adjusted net income – Republic, and adjusted diluted earnings per share, which are not measures determined in accordance with U.S. GAAP, provide an understanding of operational activities before the financial impact of certain items. We use these measures, and believe investors will find them helpful, in understanding the ongoing performance of our operations separate from items that have a disproportionate impact on our results for a particular period. We have incurred comparable charges and costs in prior periods, and similar types of adjustments can reasonably be expected to be recorded in future periods. Our definitions of adjusted pre-tax income, adjusted net income – Republic, and adjusted diluted earnings per share may not be comparable to similarly titled measures presented by other companies. Further information on each of these adjustments is included below.

Loss on extinguishment of debt and other related costs. During 2020, we incurred a loss on the early extinguishment of debt and other related costs related to the early extinguishment of our $600.0 million 5.250% senior notes due November 2021 (the 2021 Notes) and our $850.0 million 3.550% senior notes due June 2022 (the 2022 Notes), and to redeem $250.0 million of the $550.0 million outstanding 4.750% senior notes due May 2023 (the 2023 Notes). We paid total cash premiums of $99.1 million and incurred non-cash charges related to the proportional share of unamortized discounts and deferred issuance costs of $2.8 million. The unamortized proportional share of certain cash flow hedges reclassified to earnings as non-cash interest expense was $1.8 million, and the proportional share of our fair value hedges (related to the 2023 Notes) that were dedesignated and recognized in earnings as a reduction to non-cash interest expense was $4.7 million. During 2019, we did not incur any losses on the early extinguishment of certain financing arrangements.

Restructuring charges. In 2019, we incurred costs related to the redesign of certain back-office software systems, which continued into 2020. In addition, in July 2020, we eliminated certain back-office support positions in response to a decline in the underlying demand for services resulting from the COVID-19 pandemic. During 2020, we incurred restructuring charges of $20.0 million which primarily related to these restructuring efforts. During 2019, we incurred restructuring charges of $14.2 million, which primarily related to the redesign of certain of our back-office software systems. We paid $15.5 million and $10.6 million during 2020 and 2019, respectively, related to these restructuring efforts.

In 2021, we expect to incur additional restructuring charges of approximately $15 million to $20 million primarily related to the redesign of certain of our back-office software systems. Substantially all of these restructuring charges will be recorded in our corporate segment.

Loss (gain) on business divestitures and impairments, net. During 2020, we recorded a net loss on business divestitures and impairments of $77.7 million which was due to business divestitures and asset impairments in certain markets, including $42.6 million resulting from management’s decision to exit certain product offerings and geographic basins in our upstream environmental solutions business. During 2019, we recorded a net gain on business divestitures and impairments of $(14.7) million.

Withdrawal costs - multiemployer pension funds. During 2020, we recorded charges to earnings of $34.5 million for withdrawal events at multiemployer pension funds to which we contribute. As we obtain updated information regarding multiemployer pension funds, the factors used in deriving our estimated withdrawal liabilities will be subject to change, which may adversely impact our reserves for withdrawal costs.

Fire-damage related costs. During the three months ended December 31, 2019, certain of our owned and operated facilities in our Group 1 segment were impacted by separate fire-related events. Although our business may incur fire-related damage to our leased or owned property, plant and equipment from time to time, we specifically identify in the table above fire-damage related costs of $7.7 million incurred during 2019, due to its magnitude.

Bridgeton insurance recovery. During 2020 and 2019, we recognized insurance recoveries of $10.8 million and $24.0 million, respectively, related to our closed Bridgeton Landfill in Missouri, which we recognized as a reduction of remediation expenses in our cost of operations.

Incremental contract start-up costs - large municipal contract. Although our business regularly incurs startup costs under municipal contracts, we specifically identify in the table above the startup costs with respect to an individual municipal contract (and do not adjust for other startup costs under other contracts in 2020 or 2019). We do this because of the magnitude of the costs involved with this particular municipal contract and the unusual nature for the time period in which they were incurred. During 2019, we incurred costs of $0.7 million related to the implementation of this large municipal contract. These costs did not meet the capitalization criteria prescribed by Accounting Standards Update 2014-09, *Revenue from Contracts with Customers (Topic 606) and Other Assets and Deferred Costs-Contracts with Customers (Subtopic 340-40)*.

Results of Operations

Revenue

We generate revenue by providing environmental services to our customers, including the collection and processing of recyclable materials, collection, transfer and disposal of non-hazardous solid waste, and other environmental solutions. Our residential, small-container and large-container collection operations in some markets are based on long-term contracts with municipalities. Certain of our municipal contracts have annual price escalation clauses that are tied to changes in an underlying base index such as a consumer price index. We generally provide small-container and large-container collection services to customers under contracts with terms up to three years. Our transfer stations and landfills generate revenue from disposal or tipping fees charged to third parties. Our recycling processing centers generate revenue from tipping fees charged to third parties and the sale of recycled commodities. Our revenue from environmental solutions consists mainly of fees we charge for disposal of non-hazardous solid and liquid material and in-plant services, such as transportation and logistics. Environmental solutions waste is generated from the by-product of oil and natural gas exploration and production activity. Additionally, it is generated by the daily operations of industrial, petrochemical and refining facilities, including maintenance, plant turnarounds and capital projects. Other non-core revenue consists primarily of revenue from National Accounts, which represents the portion of revenue generated from nationwide or regional contracts in markets outside our operating areas where the associated material handling is subcontracted to local operators. Consequently, substantially all of this revenue is offset with related subcontract costs, which are recorded in cost of operations.

The following table reflects our revenue by service line for the years ended December 31, 2020 and 2019 (in millions of dollars and as a percentage of revenue):

	2020		2019	
Collection:				
Residential	$ 2,309.0	22.7 %	$ 2,271.9	22.1 %
Small-container	3,106.8	30.6	3,170.0	30.8
Large-container	2,148.9	21.2	2,249.6	21.8
Other	51.5	0.5	46.1	0.4
Total collection	7,616.2	75.0	7,737.6	75.1
Transfer	1,349.4		1,318.7	
Less: intercompany	(745.9)		(748.1)	
Transfer, net	603.5	5.9	570.6	5.5
Landfill	2,298.1		2,324.2	
Less: intercompany	(1,018.5)		(1,024.1)	
Landfill, net	1,279.6	12.6	1,300.1	12.6
Environmental solutions	127.7	1.3	191.7	1.9
Other:				
Recycling processing and commodity sales	297.1	2.9	273.3	2.7
Other non-core	229.5	2.3	226.1	2.2
Total other	526.6	5.2	499.4	4.9
Total revenue	$ 10,153.6	100.0 %	$ 10,299.4	100.0 %

The following table reflects changes in components of our revenue, as a percentage of total revenue, for the years ended December 31, 2020 and 2019:

	2020	2019
Average yield	2.6 %	2.8 %
Fuel recovery fees	(0.7)	—
Total price	1.9	2.8
Volume	(3.1)	(0.4)
Recycling processing and commodity sales	0.3	(0.3)
Environmental solutions	(0.9)	(0.3)
Total internal growth	(1.8)	1.8
Acquisitions / divestitures, net	0.4	0.8
Total	(1.4)%	2.6 %
Core price	4.8 %	4.7 %

Average yield is defined as revenue growth from the change in average price per unit of service, expressed as a percentage. Core price is defined as price increases to our customers and fees, excluding fuel recovery, net of price decreases to retain customers. We also measure changes in average yield and core price as a percentage of related-business revenue, defined as total revenue excluding recycled commodities and fuel recovery fees, to determine the effectiveness of our pricing strategies. Average yield as a percentage of related-business revenue was 2.8% and 2.9% for 2020 and 2019, respectively. Core price as a percentage of related-business revenue was 5.0% for both 2020 and 2019.

During 2020, we experienced the following changes in our revenue as compared to 2019:

- Average yield increased revenue by 2.6% due to positive pricing changes in all lines of business.
- The fuel recovery fee program, which mitigates our exposure to increases in fuel prices, decreased revenue by (0.7)%, primarily due to a decrease in fuel prices compared to the same period in 2019 and a decrease in the total revenue subject to the fuel recovery fees.
- Volume decreased revenue by (3.1)% primarily due to a reduction in service levels attributable to the COVID-19

pandemic. We experienced volume declines in our small- and large-container lines of business as a result of a reduction in the frequency of pickups or a temporary pause in service for certain of our customers. In addition, we experienced declines in special waste volumes disposed at certain of our landfills and a decrease in volumes at our transfer stations. These decreases were partially offset by an increase in construction and demolition volumes in our landfill line of business along with one additional workday as compared to 2019.

- Recycling processing and commodity sales increased revenue by 0.3% primarily due to an increase in overall commodity prices as compared to 2019. The average price for recycled commodities, excluding glass and organics for 2020 was $96 per ton compared to $77 per ton for 2019.

  Changing market demand for recycled commodities causes volatility in commodity prices. At current volumes and mix of materials, we believe a $10 per ton change in the price of recycled commodities will change both annual revenue and operating income by approximately $12 million.
- Environmental solutions revenue decreased by (0.9)% primarily due to a decrease in rig counts, drilling activity, and the delay of in-plant project work as a result of lower demand for crude oil.
- Acquisitions, net of divestitures, increased revenue by 0.4% due to our continued growth strategy of acquiring privately held environmental services companies that complement our existing business platform. This was partially offset by a decrease in revenue due to the divestiture of certain non-strategic assets during the year.

Cost of Operations

Cost of operations includes labor and related benefits, which consists of salaries and wages, health and welfare benefits, incentive compensation and payroll taxes. It also includes transfer and disposal costs representing tipping fees paid to third party disposal facilities and transfer stations; maintenance and repairs relating to our vehicles, equipment and containers, including related labor and benefit costs; transportation and subcontractor costs, which include costs for independent haulers that transport our material to disposal facilities and costs for local operators who provide environmental services associated with our National Accounts in markets outside our standard operating areas; fuel, which includes the direct cost of fuel used by our vehicles, net of fuel tax credits; disposal fees and taxes, consisting of landfill taxes, host community fees and royalties; landfill operating costs, which includes financial assurance, leachate disposal, remediation charges and other landfill maintenance costs; risk management costs, which include insurance premiums and claims; cost of goods sold, which includes material costs paid to suppliers; and other, which includes expenses such as facility operating costs, equipment rent and gains or losses on sale of assets used in our operations.

The following table summarizes the major components of our cost of operations for the years ended December 31, 2020 and 2019 (in millions of dollars and as a percentage of revenue):

	2020		2019	
Labor and related benefits	$ 2,153.4	21.2 %	$ 2,202.4	21.4 %
Transfer and disposal costs	796.9	7.9	841.7	8.2
Maintenance and repairs	969.6	9.6	1,006.2	9.8
Transportation and subcontract costs	674.1	6.6	674.9	6.5
Fuel	271.7	2.7	347.9	3.4
Disposal fees and taxes	313.5	3.1	325.7	3.2
Landfill operating costs	258.2	2.5	244.7	2.4
Risk management	213.9	2.1	230.7	2.2
Other	460.0	4.5	440.6	4.2
Subtotal	6,111.3	60.2	6,314.8	61.3
Fire-damage related costs [(1)]	—	—	7.6	0.1
Bridgeton insurance recovery	(10.8)	(0.1)	(24.0)	(0.2)
Total cost of operations	$ 6,100.5	60.1 %	$ 6,298.4	61.2 %

(1) During the three months and year ended December 31, 2019, we incurred an additional $0.1 million of fire-damage related costs, which are reflected in other selling, general, and administrative expense.

These cost categories may change from time to time and may not be comparable to similarly titled categories presented by other companies. As such, you should take care when comparing our cost of operations by component to that of other companies and of ours for prior periods.

Our cost of operations decreased for the year ended December 31, 2020 compared to the same period in 2019 as a result of the following:

- Labor and related benefits decreased due to a decline in service levels attributable to the COVID-19 pandemic, partially offset by higher hourly and salaried wages as a result of annual merit increases, and one additional workday during 2020 as compared to 2019.
- Transfer and disposal costs decreased as a result of lower collection volumes, partially offset by an increase in third party disposal rates. During both 2020 and 2019, approximately 68% of the total solid waste volume we collected was disposed at landfill sites that we own or operate (internalization).
- Maintenance and repairs expense decreased due to a decrease in service levels attributable to the COVID-19 pandemic.
- Transportation and subcontract costs decreased slightly primarily due to a decline in demand for our environmental solutions business as well as a decrease in transfer station volumes, partially offset by increases due to acquisition-related activity along with one additional workday during 2020 as compared to 2019.
- Fuel costs decreased due to a decline in fuel prices and service levels attributable to the COVID-19 pandemic. The national average cost per gallon for diesel fuel in 2020 was $2.55 compared to $3.06 for 2019.

  At current consumption levels, we believe a twenty-cent per gallon change in the price of diesel fuel would change our fuel costs by approximately $25 million per year. Offsetting these changes in fuel expense would be changes in our fuel recovery fee charged to our customers. At current participation rates, we believe a twenty-cent per gallon change in the price of diesel fuel would change our fuel recovery fee by approximately $25 million per year.
- Disposal fees and taxes decreased due to a decrease in service levels attributable to the COVID-19 pandemic.
- Landfill operating expenses increased due to the recognition of certain favorable remediation adjustments in 2019 that did not recur in 2020.
- Risk management expenses decreased primarily due to favorable actuarial development in our auto liability and workers compensation prior year programs, coupled with a decline in exposure in our current year program.
- Other costs of operations increased during 2020 as a result of incremental costs incurred related to the COVID-19 pandemic, including costs for additional safety equipment and hygiene products, increased facility and equipment cleaning, and costs associated with our Committed to Serve initiative, partially offset by a decline in necessary facility repairs as well as decreased third party equipment rentals as a result of a decline in service levels attributable to the COVID-19 pandemic.
- During 2019, we incurred $7.6 million of fire-related damage costs in our cost of operations that resulted from damage to our leased or owned property, plant and equipment in our Group 1 segment.
- During 2020 and 2019, we recognized favorable insurance recoveries of $10.8 million and $24.0 million, respectively, related to our closed Bridgeton Landfill as a reduction of remediation expenses in our consolidated statement of income for the applicable period.

Depreciation, Amortization and Depletion of Property and Equipment

The following table summarizes depreciation, amortization and depletion of property and equipment for the years ended December 31, 2020 and 2019 (in millions of dollars and as a percentage of revenue):

	2020		2019	
Depreciation and amortization of property and equipment	$ 692.9	6.8 %	$ 652.8	6.4 %
Landfill depletion and amortization	323.0	3.2	333.0	3.2
Depreciation, amortization and depletion expense	$ 1,015.9	10.0 %	$ 985.8	9.6 %

Depreciation and amortization of property and equipment increased primarily due to additional assets acquired with our acquisitions.

Landfill depletion and amortization decreased in aggregate dollars due to lower landfill disposal volumes primarily driven by decreased special waste volumes, partially offset by an increase in our overall average depletion rate.

Amortization of Other Intangible Assets

Expenses for amortization of other intangible assets were $21.2 million and $20.4 million for the years ended December 31, 2020 and 2019, respectively, or 0.2% of revenue for both 2020 and 2019. Our other intangible assets primarily relate to

customer relationships and, to a lesser extent, non-compete agreements. Amortization expense increased due to additional assets acquired with our acquisitions.

Amortization of Other Assets

Expenses for amortization of other assets were $38.8 million, or 0.4% of revenue, for the year ended December 31, 2020, compared to $34.3 million, or 0.3% of revenue, for 2019. Our other assets primarily relate to the prepayment of fees and capitalized implementation costs associated with cloud-based hosting arrangements.

Accretion Expense

Accretion expense was $82.9 million and $81.9 million, or 0.8% of revenue, for the years ended December 31, 2020 and 2019, respectively. Accretion expense has remained relatively unchanged as our asset retirement obligations remained relatively consistent period over period.

Selling, General and Administrative Expenses

Selling, general and administrative expenses include salaries, health and welfare benefits, and incentive compensation for corporate and field general management, field support functions, sales force, accounting and finance, legal, management information systems, and clerical and administrative departments. Other expenses include rent and office costs, fees for professional services provided by third parties, legal settlements, marketing, investor and community relations services, directors' and officers' insurance, general employee relocation, travel, entertainment and bank charges. Restructuring charges are excluded from selling, general and administrative expenses and are discussed separately.

The following table summarizes our selling, general and administrative expenses for the years ended December 31, 2020 and 2019 (in millions of dollars and as a percentage of revenue):

	2020		2019	
Salaries and related benefits	$ 740.5	7.3 %	$ 751.9	7.3 %
Provision for doubtful accounts	27.8	0.3	34.0	0.3
Other	284.7	2.8	306.0	3.0
Total selling, general and administrative expenses	$ 1,053.0	10.4 %	$ 1,091.9	10.6 %

These cost categories may change from time to time and may not be comparable to similarly titled categories used by other companies. As such, you should take care when comparing our selling, general and administrative expenses by cost component to those of other companies and of ours for prior periods.

The most significant items affecting our selling, general and administrative expenses during 2020 as compared to 2019 are summarized below:

- In 2020, salaries and related benefits decreased in aggregate dollars primarily due to a decrease in compensation expense related to our performance shares and continued efficiencies at our customer resource centers attributable to our investments in enhanced technology platforms. This decrease was partially offset by higher wages, benefits and other payroll related items resulting from annual merit increases.
- Provision for doubtful accounts decreased in aggregate dollars during 2020, primarily due to improved collections during the period as demonstrated by the reduction in our days sales outstanding to 38.6, or 26.4 days net of deferred revenue, as of December 31, 2020 compared to 39.8, or 27.9 days net of deferred revenue, as of December 31, 2019.
- Other selling, general and administrative expenses decreased during 2020, primarily due to a decrease in travel and advertising costs as a result of the COVID-19 pandemic. These decreases were partially offset by an increase in facility and equipment cleaning expenses attributable to the COVID-19 pandemic, professional fees, certain charitable donations associated with our Committed to Serve initiative, and acquisition deal costs.

Withdrawal Costs - Multiemployer Pension Funds

During 2020, we recorded charges to earnings of $34.5 million for withdrawal events at multiemployer pension funds to which we contribute. We paid $34.4 million during 2020 relative to these withdrawal events. As we obtain updated information regarding multiemployer pension funds, the factors used in deriving our estimated withdrawal liabilities will be subject to change, which may adversely impact our reserves for withdrawal costs.

Loss (Gain) on Business Divestitures and Impairments, Net

We strive to have a number one or number two market position in each of the markets we serve, or have a clear path on how we

will achieve a leading market position over time. Where we cannot establish a leading market position, or where operations are not generating acceptable returns, we may decide to divest certain assets and reallocate resources to other markets. Business divestitures could result in gains, losses or impairment charges that may be material to our results of operations in a given period.

During 2020, we recorded a net loss on business divestitures and impairments of $77.7 million, which was due to business divestitures and asset impairments in certain markets, including $42.6 million resulting from management's decision to exit certain product offerings and geographic basins in our upstream environmental solutions business. During 2019, we recorded a net gain on business divestitures and impairments of $(14.7) million.

Restructuring Charges

In 2019, we incurred costs related to the redesign of certain back-office software systems, which continued into 2020. In addition, in July 2020, we eliminated certain back-office support positions in response to a decline in the underlying demand for services resulting from the COVID-19 pandemic. During 2020, we incurred restructuring charges of $20.0 million which primarily related to these restructuring efforts. During 2019, we incurred restructuring charges of $14.2 million, which primarily related to the redesign of certain of our back-office software systems. We paid $15.5 million and $10.6 million during 2020 and 2019, respectively, related to these restructuring efforts.

Interest Expense

The following table provides the components of interest expense, including accretion of debt discounts and accretion of discounts primarily associated with environmental and risk insurance liabilities assumed in acquisitions (in millions of dollars):

	2020	2019
Interest expense on debt	$ 300.1	$ 350.4
Non-cash interest	61.7	48.8
Less: capitalized interest	(6.2)	(7.2)
Total interest expense	$ 355.6	$ 392.0

Total interest expense for 2020 decreased compared to 2019 primarily due to lower interest rates on our floating and fixed rate debt. The decrease attributable to our fixed rate debt is primarily due to the issuance of $350.0 million of 0.875% senior notes and $750.0 million of 1.750% senior notes in November 2020, $650.0 million of 1.450% senior notes in August 2020, $600.0 million of 2.300% senior notes and $400.0 million of 3.050% senior notes in February 2020, as well as the issuance of $900.0 million of 2.500% senior notes in August 2019, the proceeds of which were used to repay outstanding senior notes with coupons ranging from 3.550% to 5.500%.

During 2020 and 2019, cash paid for interest, excluding net swap settlements for our fixed to floating interest rate swaps, was $325.1 million and $346.8 million, respectively.

Loss on Extinguishment of Debt

During 2020, we incurred a $101.9 million loss on the early extinguishment of debt . We paid total cash premiums during the year totaling $99.1 million and incurred non-cash charges related to the proportional share of unamortized discounts and deferred issuance costs of $2.8 million.

Income Taxes

Our provision for income taxes was $173.1 million and $222.0 million for 2020 and 2019, respectively. Our effective income tax rate was 15.2% and 17.1% for 2020 and 2019, respectively. We made income tax payments (net of refunds) of approximately $124 million and $31 million for 2020 and 2019, respectively. Income taxes paid in 2020 and 2019 reflect benefits from 100% bonus depreciation on qualified assets as well as tax credits from our continuing investments in solar energy.

During 2020, we acquired non-controlling interests in limited liability companies established to own solar energy assets that qualified for investment tax credits under Section 48 of the Internal Revenue Code. We account for these investments using the equity method of accounting and recognize our share of income or loss and other reductions in the value of our investments in loss from unconsolidated equity method investments within our consolidated statements of income. For further discussion regarding our equity method accounting, see Note 3, *Business Acquisitions, Investments and Restructuring Charges*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K. Our 2020 tax provision reflects a benefit of approximately $100 million due to the tax credits related to these investments. In addition, our 2020 tax provision was reduced by $17.2 million for adjustments to our valuation allowance due to the realizability of certain state loss carryforwards. Lastly, our provision was further reduced by $8.2 million due to the realization of additional federal and state benefits as well as

adjustments to deferred taxes due to the completion of our 2019 tax returns and $11.6 million from excess tax benefits related to stock compensation.

Our 2019 tax provision was reduced by $12.3 million from excess tax benefits related to stock compensation, approximately $84 million related to the tax credits from our non-controlling interests in limited liability companies established to own solar energy assets, and approximately $13 million due to the realization of tax credits and lower state rates due to changes in estimates following the completion of our 2018 tax returns.

During the three months ended December 31, 2020, we determined that it is more likely than not that we will realize a portion of our deferred tax assets related to certain state loss carryforwards. Most of these loss carryforwards are attributable to a specific subsidiary for which we have historically provided a partial valuation allowance due to the uncertainty surrounding the future utilization of these carryforwards in the tax jurisdictions where the loss carryforwards exist. The realization of these deferred tax assets depends upon the existence of sufficient taxable income in future periods. As a result of recent changes in U.S. tax law, the current macroeconomic environment and our ongoing efforts to streamline and maximize the efficiency of our tax footprint, we completed our restructuring plan which optimized our tax structure to better align with our overall operational footprint. This resulted in a reduction to our valuation allowance of $17.2 million for the year and three months ended December 31, 2020.

We have deferred tax assets related to state net operating loss carryforwards of approximately $99 million available as of December 31, 2020. These state net operating loss carryforwards expire at various times between 2021 and 2040. We believe that it is more likely than not that the benefit from some of our state net operating loss carryforwards will not be realized due to limitations on these loss carryforwards in certain states. In recognition of this risk, as of December 31, 2020, we have provided a valuation allowance of approximately $44 million.

Reportable Segments

In December 2020, our senior management began evaluating, overseeing and managing the financial performance of our operations through three operating segments. Group 1 primarily consists of geographic areas located in the western United States, and Group 2 primarily consists of geographic areas located in the southeastern and mid-western United States, and the eastern seaboard of the United States. Our environmental solutions operating segment, which provides waste management solutions for daily operations of industrial, petrochemical and refining facilities, is aggregated with Corporate entities and other as it only represents approximately 1% of our consolidated revenue. Each of our reportable segments provides integrated environmental services, including collection, transfer, recycling, and disposal services.

Summarized financial information concerning our reportable segments for the years ended December 31, 2020 and 2019 is shown in the following table (in millions of dollars and as a percentage of revenue in the case of operating margin):

	Net Revenue	Depreciation, Amortization, Depletion and Accretion Before Adjustments for Asset Retirement Obligations	Adjustments to Amortization Expense for Asset Retirement Obligations	Depreciation, Amortization, Depletion and Accretion	Loss (Gain) on Business Divestitures and Impairments, Net	Operating Income (Loss)	Operating Margin
2020:							
Group 1	$ 5,057.5	$ 522.1	$ (20.0)	$ 502.1	$ —	$ 1,343.3	26.6 %
Group 2	4,791.9	506.4	(17.5)	488.9	—	966.4	20.2 %
Corporate entities and other	304.2	142.8	25.0	167.8	77.7	(600.6)	—
Total	$ 10,153.6	$ 1,171.3	$ (12.5)	$ 1,158.8	$ 77.7	$ 1,709.1	16.8 %
2019:							
Group 1	$ 5,001.9	$ 505.9	$ (12.2)	$ 493.7	$ —	$ 1,231.7	24.6 %
Group 2	4,944.4	496.6	(21.5)	475.1	—	926.5	18.7 %
Corporate entities and other	353.1	130.8	22.8	153.6	(14.7)	(371.0)	—
Total	$ 10,299.4	$ 1,133.3	$ (10.9)	$ 1,122.4	$ (14.7)	$ 1,787.2	17.4 %

Financial information for the year ended December 31, 2019 reflects the transfer of our environmental solutions operating segment from Group 2 to Corporate entities and other. Corporate entities and other include legal, tax, treasury, information technology, risk management, human resources, closed landfills, environmental solutions, and other administrative functions. National Accounts revenue included in corporate entities represents the portion of revenue generated from nationwide and regional contracts in markets outside our operating areas where the associated material handling is subcontracted to local

operators. Consequently, substantially all of this revenue is offset with related subcontract costs, which are recorded in cost of operations.

Significant changes in the revenue and operating margins of our reportable segments for 2020 compared to 2019 are discussed below.

Group 1

Revenue for 2020 increased 1.1% from 2019 primarily due to an increase in average yield in all lines of business and one additional workday during 2020. This increase was partially offset by volume declines in our small- and large-container collection, transfer station, and landfill lines of business.

Operating income for Group 1 increased from $1,231.7 million for 2019, or a 24.6% operating margin, to $1,343.3 million for 2020, or a 26.6% operating margin. The following cost categories impacted our operating income margin:

- Cost of operations favorably impacted operating income margin during 2020, primarily due to a decrease in labor and related benefits, maintenance and repairs expenses, disposal fees and taxes, and fuel costs as a result of decreased service levels attributable to the COVID-19 pandemic. Fuel costs further decreased due to CNG tax credits that were enacted in December 2019 and recognized during 2020.
- Landfill depletion and amortization favorably impacted operating income margin during 2020, primarily due to lower landfill disposal volumes primarily driven by decreased special waste volumes, and by favorable amortization adjustments to our asset retirement obligations during 2020 compared to the adjustments recognized in 2019. Depreciation unfavorably impacted operating margin, primarily due to additional assets acquired with our acquisitions.

Group 2

Revenue for 2020 decreased (3.1)% from 2019 due to volume declines in our collection lines of business as well as a decrease in special waste volumes in our landfill line of business. These decreases were partially offset by an increase in average yield in all lines of business, increases in construction and demolition and municipal solid waste volumes in our landfill line of business, and one additional workday during 2020.

Operating income for Group 2 increased from $926.5 million for 2019, or an 18.7% operating margin, to $966.4 million for 2020, or a 20.2% operating margin. The following cost categories impacted our operating income margin:

- Cost of operations favorably impacted operating income margin during 2020, primarily due to a decrease in labor and related benefits, transfer and disposal costs, maintenance and repairs expenses and fuel costs as a result of decreased service levels attributable to the COVID-19 pandemic. Fuel costs further decreased due to CNG tax credits that were enacted in December 2019 and recognized during 2020.
- Landfill depletion and amortization unfavorably impacted operating income margin during 2020, primarily due to an increase in our overall average depletion rate, and by decreased favorable amortization adjustments to our asset retirement obligations during 2020 compared to the adjustments recognized in 2019. Depreciation unfavorably impacted operating income margin, primarily due to additional assets acquired with our acquisitions.

Corporate Entities and Other

Operating loss in our Corporate entities and other segment increased from $371.0 million for 2019 to $600.6 million for 2020. During 2020, we recorded a net loss on business divestitures and impairments of $77.7 million which was due to business divestitures and asset impairments in certain markets, including $42.6 million resulting from management's decision to exit certain product offerings and geographic basins in our upstream environmental solutions business. During 2019, we recorded a net gain on business divestitures and impairments of $(14.7) million. Additionally, we recognized an insurance recovery of $10.8 million related to our closed Bridgeton Landfill during 2020, as compared to an insurance recovery of $24.0 million recognized in the same period in 2019. During 2020, we recognized certain direct and incremental costs attributable to the COVID-19 pandemic, including costs for additional safety equipment and hygiene products, increased facility and equipment cleaning, and costs associated with our Committed to Serve initiative.

Landfill and Environmental Matters

Our landfill costs include daily operating expenses, costs of capital for cell development, costs for final capping, closure and post-closure, and the legal and administrative costs of ongoing environmental compliance. Daily operating expenses include leachate treatment, transportation and disposal costs, methane gas and groundwater monitoring and system maintenance costs, interim cap maintenance costs, and costs associated with applying daily cover materials. We expense all indirect landfill development costs as they are incurred. We use life cycle accounting and the units-of-consumption method to recognize certain direct landfill costs related to landfill development. In life cycle accounting, certain direct costs are capitalized and charged to

depletion expense based on the consumption of cubic yards of available airspace. These costs include all costs to acquire and construct a site, including excavation, natural and synthetic liners, construction of leachate collection systems, installation of methane gas collection and monitoring systems, installation of groundwater monitoring wells, and other costs associated with acquiring and developing the site. Obligations associated with final capping, closure and post-closure are capitalized and amortized on a units-of-consumption basis as airspace is consumed.

Cost and airspace estimates are developed at least annually by engineers. Our operating and accounting personnel use these estimates to adjust the rates we use to expense capitalized costs. Changes in these estimates primarily relate to changes in costs, available airspace, inflation and applicable regulations. Changes in available airspace include changes in engineering estimates, changes in design and changes due to the addition of airspace lying in expansion areas that we believe have a probable likelihood of being permitted. Changes in engineering estimates typically include modifications to the available disposal capacity of a landfill based on a refinement of the capacity calculations resulting from updated information.

Available Airspace

As of December 31, 2020 and 2019, we owned or operated 186 and 189 active solid waste landfills, respectively, with total available disposal capacity estimated to be 5.0 billion in-place cubic yards. For these landfills, the following table reflects changes in capacity and remaining capacity, as measured in cubic yards of airspace:

	Balance as of December 31, 2019	New Expansions Undertaken	Landfills Acquired, Net of Divestitures	Permits Granted / New Sites, Net of Closures	Airspace Consumed	Changes in Engineering Estimates	Balance as of December 31, 2020
Cubic yards (in millions):							
Permitted airspace	4,673.0	—	(5.1)	205.8	(76.1)	(5.1)	4,792.5
Probable expansion airspace	321.7	32.9	—	(158.2)	—	—	196.4
Total cubic yards (in millions)	4,994.7	32.9	(5.1)	47.6	(76.1)	(5.1)	4,988.9
Number of sites:							
Permitted airspace	189		(2)	(1)			186
Probable expansion airspace	12	2		(3)			11

	Balance as of December 31, 2018	New Expansions Undertaken	Landfills Acquired, Net of Divestitures	Permits Granted / New Sites, Net of Closures	Airspace Consumed	Changes in Engineering Estimates	Balance as of December 31, 2019
Cubic yards (in millions):							
Permitted airspace	4,736.8	—	—	35.0	(81.5)	(17.3)	4,673.0
Probable expansion airspace	341.2	6.7	—	(18.1)	—	(8.1)	321.7
Total cubic yards (in millions)	5,078.0	6.7	—	16.9	(81.5)	(25.4)	4,994.7
Number of sites:							
Permitted airspace	190		—	(1)			189
Probable expansion airspace	12	2		(2)			12

Total available disposal capacity represents the sum of estimated permitted airspace plus an estimate of probable expansion airspace. Engineers develop these estimates at least annually using information provided by annual aerial surveys. Before airspace included in an expansion area is determined to be probable expansion airspace and, therefore, included in our calculation of total available disposal capacity, it must meet all of our expansion criteria. See Note 2, *Summary of Significant Accounting Policies,* and Note 8, *Landfill and Environmental Costs*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K for further information. Also see our *Critical Accounting Judgments and Estimates* section of this Management's Discussion and Analysis of Financial Condition and Results of Operations.

As of December 31, 2020, 11 of our landfills met all of our criteria for including their probable expansion airspace in their total available disposal capacity. At projected annual volumes, these 11 landfills have an estimated remaining average site life of 123 years, including probable expansion airspace. The average estimated remaining life of all of our landfills is 63 years. We have other expansion opportunities that are not included in our total available airspace because they do not meet all of our criteria for treatment as probable expansion airspace.

The following table reflects the estimated operating lives of our active landfill sites based on available and probable disposal capacity using current annual volumes as of December 31, 2020:

	Number of Sites without Probable Expansion Airspace	Number of Sites with Probable Expansion Airspace	Total Sites	Percent of Total
0 to 5 years	15	—	15	8.1 %
6 to 10 years	15	1	16	8.6
11 to 20 years	27	2	29	15.6
21 to 40 years	49	3	52	28.0
41+ years	69	5	74	39.7
Total	175	11	186	100.0 %

Final Capping, Closure and Post-Closure Costs

As of December 31, 2020, accrued final capping, closure and post-closure costs were $1,346.4 million, of which $57.5 million were current and $1,288.9 million were long-term as reflected in our consolidated balance sheets in accrued landfill and environmental costs included in Item 8 of this Form 10-K.

Remediation and Other Charges for Landfill Matters

It is reasonably possible that we will need to adjust our accrued landfill and environmental liabilities to reflect the effects of new or additional information, to the extent that such information impacts the costs, timing or duration of the required actions. Future changes in our estimates of the costs, timing or duration of the required actions could have a material adverse effect on our consolidated financial position, results of operations and cash flows.

During 2020 and 2019, we recognized insurance recoveries of $10.8 million and $24.0 million, respectively, related to our closed Bridgeton Landfill in Missouri. As such, we recorded a reduction of remediation expenses included in our cost of operations during the years ended December 31, 2020 and 2019.

For a description of our significant remediation matters, see Note 8, *Landfill and Environmental Costs,* of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

Investment in Landfills

As of December 31, 2020, we expect to spend an estimated additional $9.5 billion on existing landfills, primarily related to cell construction and environmental structures, over their remaining lives. Our total expected investment, excluding non-depletable land, estimated to be $13.6 billion, or $2.72 per cubic yard, is used in determining our depletion and amortization expense based on airspace consumed using the units-of-consumption method.

The following table reflects our future expected investment as of December 31, 2020 (in millions):

	Balance as of December 31, 2020	Expected Future Investment	Total Expected Investment
Non-depletable landfill land	$ 166.3	$ —	$ 166.3
Landfill development costs	7,991.7	9,519.9	17,511.6
Construction-in-progress - landfill	303.8	—	303.8
Accumulated depletion and amortization	(4,249.5)	—	(4,249.5)
Net investment in landfill land and development costs	$ 4,212.3	$ 9,519.9	$ 13,732.2

The following table reflects our net investment in our landfills, excluding non-depletable land, and our depletion, amortization and accretion expense for the years ended December 31, 2020 and 2019:

	2020	2019
Number of landfills owned or operated	186	189
Net investment, excluding non-depletable land (in millions)	$ 4,046.0	$ 3,872.9
Total estimated available disposal capacity (in millions of cubic yards)	4,988.9	4,994.7
Net investment per cubic yard	$ 0.81	$ 0.78
Landfill depletion and amortization expense (in millions)	$ 323.0	$ 333.0
Accretion expense (in millions)	82.9	81.9
	405.9	414.9
Airspace consumed (in millions of cubic yards)	76.1	81.5
Depletion, amortization and accretion expense per cubic yard of airspace consumed	$ 5.33	$ 5.09

During 2020 and 2019, our average compaction rate was approximately 2,000 pounds per cubic yard based primarily on a three-year historical moving average.

Property and Equipment

The following tables reflect the activity in our property and equipment accounts for the years ended December 31, 2020 and 2019 (in millions of dollars):

		Gross Property and Equipment						
	Balance as of December 31, 2019	Capital Additions	Retirements	Acquisitions, Net of Divestitures	Non-Cash Additions for Asset Retirement Obligations	Adjustments for Asset Retirement Obligations	Impairments, Transfers and Other Adjustments	Balance as of December 31, 2020
Land	$ 448.3	$ 9.6	$ (1.8)	$ 13.2	$ —	$ —	$ (2.2)	$ 467.1
Non-depletable landfill land	170.5	0.3	(6.3)	(2.8)	—	—	4.6	166.3
Landfill development costs	7,474.7	2.6	(15.5)	62.3	40.6	(45.5)	472.5	7,991.7
Vehicles and equipment	7,766.0	654.4	(336.3)	3.9	—	—	31.0	8,119.0
Buildings and improvements	1,342.6	4.4	(6.1)	24.0	1.7	—	35.9	1,402.5
Construction-in-progress - landfill	366.8	406.9	—	(3.6)	—	—	(466.3)	303.8
Construction-in-progress - other	87.7	164.1	—	—	—	—	(144.4)	107.4
Total	$ 17,656.6	$ 1,242.3	$ (366.0)	$ 97.0	$ 42.3	$ (45.5)	$ (68.9)	$ 18,557.8

		Accumulated Depreciation, Amortization and Depletion					
	Balance as of December 31, 2019	Additions Charged to Expense	Retirements	Acquisitions, Net of Divestitures	Adjustments for Asset Retirement Obligations	Impairments, Transfers and Other Adjustments	Balance as of December 31, 2020
Landfill development costs	$ (3,968.6)	$ (335.6)	$ 15.5	$ 26.2	$ 13.0	$ —	$ (4,249.5)
Vehicles and equipment	(4,728.2)	(628.7)	322.7	44.4	—	36.4	(4,953.4)
Buildings and improvements	(576.3)	(65.5)	4.7	6.8	—	1.6	(628.7)
Total	$ (9,273.1)	$ (1,029.8)	$ 342.9	$ 77.4	$ 13.0	$ 38.0	$ (9,831.6)

	Gross Property and Equipment							
	Balance as of December 31, 2018	Capital Additions	Retirements	Acquisitions, Net of Divestitures	Non-Cash Additions for Asset Retirement Obligations	Adjustments for Asset Retirement Obligations	Impairments, Transfers and Other Adjustments	Balance as of December 31, 2019
Land	$ 443.6	$ 2.6	$ (1.9)	$ 3.8	$ —	$ —	$ 0.2	$ 448.3
Non-depletable landfill land	167.5	5.0	(2.1)	0.4	—	—	(0.3)	170.5
Landfill development costs	7,106.0	2.9	(0.1)	8.6	43.5	(4.9)	318.7	7,474.7
Vehicles and equipment	7,377.3	679.2	(400.2)	109.9	—	—	(0.2)	7,766.0
Buildings and improvements	1,279.8	15.1	(10.1)	1.1	1.3	—	55.4	1,342.6
Construction-in-progress - landfill	287.9	399.2	—	—	—	—	(320.3)	366.8
Construction-in-progress - other	89.9	113.6	—	—	—	—	(115.8)	87.7
Total	$ 16,752.0	$ 1,217.6	$ (414.4)	$ 123.8	$ 44.8	$ (4.9)	$ (62.3)	$ 17,656.6

	Accumulated Depreciation, Amortization and Depletion						
	Balance as of December 31, 2018	Additions Charged to Expense	Retirements	Acquisitions, Net of Divestitures	Adjustments for Asset Retirement Obligations	Impairments, Transfers and Other Adjustments	Balance as of December 31, 2019
Landfill development costs	$ (3,635.9)	$ (343.9)	$ —	$ —	$ 11.2	$ —	$ (3,968.6)
Vehicles and equipment	(4,571.1)	(592.9)	390.7	18.2	—	26.9	(4,728.2)
Buildings and improvements	(524.9)	(62.3)	7.7	3.6	—	(0.4)	(576.3)
Total	$ (8,731.9)	$ (999.1)	$ 398.4	$ 21.8	$ 11.2	$ 26.5	$ (9,273.1)

Liquidity and Capital Resources

Cash and Cash Equivalents

The following is a summary of our cash and cash equivalents and restricted cash and marketable securities balances as of December 31:

	2020	2019
Cash and cash equivalents	$ 38.2	$ 47.1
Restricted cash and marketable securities	149.1	179.4
Less: restricted marketable securities	(73.1)	(49.1)
Cash, cash equivalents, restricted cash and restricted cash equivalents	$ 114.2	$ 177.4

Our restricted cash and marketable securities include, among other things, restricted cash and marketable securities pledged to regulatory agencies and governmental entities as financial guarantees of our performance under certain collection, landfill and transfer station contracts and permits, and relating to our final capping, closure and post-closure obligations at our landfills, restricted cash and marketable securities related to our insurance obligations, and restricted cash related to a payment for a certain maturing tax-exempt financing.

The following table summarizes our restricted cash and marketable securities as of December 31:

	2020	2019
Payment for maturing tax-exempt financing	$ —	$ 49.4
Capping, closure and post-closure obligations	31.5	30.6
Insurance	117.6	99.4
Total restricted cash and marketable securities	$ 149.1	$ 179.4

Intended Uses of Cash

We intend to use excess cash on hand and cash from operating activities to fund capital expenditures, acquisitions, dividend payments, share repurchases and debt repayments. Debt repayments may include purchases of our outstanding indebtedness in the secondary market or otherwise. We believe that our excess cash, cash from operating activities and our availability to draw on our credit facilities provide us with sufficient financial resources to meet our anticipated capital requirements and maturing obligations as they come due.

We may choose to voluntarily retire certain portions of our outstanding debt before their maturity dates using cash from operations or additional borrowings. We may also explore opportunities in the capital markets to fund redemptions should market conditions be favorable. Early extinguishment of debt will result in an impairment charge in the period in which the debt is repaid. The loss on early extinguishment of debt relates to premiums paid to effectuate the repurchase and the relative portion of unamortized note discounts and debt issue costs.

Summary of Cash Flow Activity

The major components of changes in cash flows for 2020 and 2019 are discussed in the following paragraphs. The following table summarizes our cash flow from operating activities, investing activities and financing activities for the years ended December 31, 2020 and 2019 (in millions of dollars):

	2020	2019
Net cash provided by operating activities	$ 2,471.6	$ 2,352.1
Net cash used in investing activities	$ (1,922.8)	$ (1,719.0)
Net cash used in financing activities	$ (612.0)	$ (589.0)

Cash Flows Provided by Operating Activities

The most significant items affecting the comparison of our operating cash flows for 2020 and 2019 are summarized below.

Changes in assets and liabilities, net of effects from business acquisitions and divestitures, decreased our cash flow from operations by $129.9 million in 2020, compared to a decrease of $213.4 million in 2019, primarily as a result of the following:

- Our accounts receivable, exclusive of the change in allowance for doubtful accounts and customer credits, decreased $13.8 million during 2020, compared to a $38.3 million increase in 2019. As of December 31, 2020, our days sales outstanding were 38.6, or 26.4 days net of deferred revenue, compared to 39.8, or 27.9 days net of deferred revenue, as of December 31, 2019.
- Our prepaid expenses and other assets decreased $6.5 million in 2020 compared to an increase of $109.7 million in 2019, primarily due to the receipt of the Bridgeton landfill settlement in the first quarter of 2020, and an increase in alternative fuel tax credit receipts during 2020 compared to 2019, partially offset by an increase of prepaid taxes due to the timing of our estimated tax payments.
- Our accounts payable decreased $46.7 million during 2020 compared to an increase of $6.4 million during 2019, due to the timing of payments.
- Cash paid for capping, closure and post-closure obligations was $19.6 million lower during 2020 compared to 2019. The decrease in cash paid for capping, closure and post-closure obligations is primarily due to the timing of capping and post-closure payments at certain of our landfill sites.
- Cash paid for remediation obligations was $14.4 million higher during 2020 compared to 2019, primarily due to $25.6 million in payments related to management and monitoring of the remediation area of our closed Bridgeton Landfill in Missouri during 2020 as compared to $16.6 million of payments during 2019.

In addition, cash paid for interest was $325.1 million and $346.8 million, excluding net swap settlements for our fixed to floating interest rate swaps, for 2020 and 2019, respectively.

We use cash flows from operations to fund capital expenditures, acquisitions, dividend payments, share repurchases and debt repayments.

Cash Flows Used in Investing Activities

The most significant items affecting the comparison of our cash flows used in investing activities for 2020 and 2019 are summarized below:

- Capital expenditures during 2020 were $1,194.6 million as compared to $1,207.1 million for 2019.

- Proceeds from sales of property and equipment during 2020 were $30.1 million as compared to $21.7 million for 2019.
- During 2020 and 2019, we used $769.5 million and $575.1 million, respectively, for acquisitions and investments, net of cash acquired. During 2020 and 2019, we received $32.9 million and $42.8 million for business divestitures, respectively.

We intend to finance capital expenditures and acquisitions through cash on hand, restricted cash held for capital expenditures, cash flows from operations, our revolving credit facilities, and tax-exempt bonds and other financings. We expect to primarily use cash and borrowings under our revolving credit facilities to pay for future business acquisitions.

Cash Flows Used in Financing Activities

The most significant items affecting the comparison of our cash flows used in financing activities for 2020 and 2019 are summarized below:

- During 2020, we issued $2,750.0 million of senior notes for cash proceeds, net of discounts and fees of $2,716.1 million. During 2019, we issued $900.0 million of senior notes for cash proceeds, net of discounts and fees of $891.1 million. Net payments of notes payable and long-term debt were $2,595.9 million during 2020, compared to net payments of $581.4 million in 2019. For a more detailed discussion, see the *Financial Condition* section of this Management's Discussion and Analysis of Financial Condition and Results of Operations.
- During 2020, we paid $99.1 million in cash premiums on the redemption of senior notes.
- During 2020, we repurchased 1.2 million shares of our stock for $98.8 million. During 2019, we repurchased 4.9 million shares of our stock for $399.4 million.
- In July 2020, our Board of Directors approved an increase in our quarterly dividend to $0.425 per share. Dividends paid were $522.5 million and $491.2 million for 2020 and 2019, respectively.
- During 2020 and 2019, cash paid for purchase price holdback releases and contingent purchase price related to acquisitions was $15.5 million and $17.2 million, respectively.

In September 2020, we entered into an agreement to extend the term of one of our landfill finance leases by 43 years, or through the end of the landfill's site life. Accordingly, we recognized an incremental finance lease obligation of $90.4 million.

Financial Condition

Debt Obligations

As of December 31, 2020, we had $168.1 million of principal debt maturing within the next 12 months, which includes certain variable rate tax-exempt financings, finance lease obligations and debentures. All of our tax-exempt financings are remarketed either quarterly or semiannually by remarketing agents to effectively maintain a variable yield. The holders of the bonds can put them back to the remarketing agents at the end of each interest period. If the remarketing agent is unable to remarket our bonds, the remarketing agent can put the bonds to us. In the event of a failed remarketing, we currently have availability under our $2.25 billion unsecured revolving credit facility to fund these bonds until they are remarketed successfully. Accordingly, we have classified these borrowings as long-term in our consolidated balance sheet as of December 31, 2020.

An extended period of economic disruption associated with the COVID-19 pandemic could further disrupt the global supply chain, negatively impact demand for our services, and disrupt financial markets. These effects could materially and adversely affect our business and financial condition, including our access to sources of liquidity. We will continue to monitor the evolving COVID-19 pandemic along with the effect on our business and access to capital markets. Refer to Part I, Item 1A - Risk Factors of this Annual Report on Form 10-K for a discussion of certain risk factors related to this pandemic.

For further discussion of the components of our overall debt, see Note 9, *Debt*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

Credit Facilities

The 364-Day Credit Facility

In August 2020, we entered into a $1.0 billion 364-day unsecured revolving credit facility (the 364-Day Credit Facility), which matures in August 2021. At our option, borrowings under the 364-Day Credit Facility bear interest at a Base Rate, or a Eurodollar Rate, plus an applicable margin based on our Debt Ratings (all as defined in the 364-Day Credit Facility agreement).

The 364-Day Credit Facility is subject to facility fees based on applicable rates defined in the 364-Day Credit Facility agreement and the aggregate commitment, regardless of usage. Availability under our 364-Day Credit Facility totaled $1.0 billion as of December 31, 2020. The 364-Day Credit Facility can be used for working capital, capital expenditures,

acquisitions, and other general corporate purposes. The 364-Day Credit Facility agreement requires us to comply with financial and other covenants, which are consistent with the financial and other covenants included in our Credit Facility. We may pay dividends and repurchase common stock if we are in compliance with these covenants.

As of December 31, 2020, we had no borrowings outstanding under our 364-Day Credit Facility.

The Credit Facility

In 2018, we entered into a $2.25 billion unsecured revolving credit facility (as amended, the Credit Facility) , which matures in June 2023. As permitted by the Credit Facility, we have the right to request two one-year extensions of the maturity date but none of the lenders are committed to participate in such extension. The Credit Facility also includes a feature that allows us to increase availability, at our option, by an aggregate amount of up to $1.0 billion through increased commitments from existing lenders or the addition of new lenders. At our option, borrowings under the Credit Facility bear interest at a Base Rate, or a Eurodollar Rate, plus an applicable margin based on our Debt Ratings (all as defined in the Credit Facility agreement).

The Credit Facility is subject to facility fees based on applicable rates defined in the Credit Facility agreement and the aggregate commitment, regardless of usage. Availability under our Credit Facility totaled $1,671.8 million and $1,696.9 million as of December 31, 2020 and 2019, respectively. The Credit Facility can be used for working capital, capital expenditures, acquisitions, letters of credit and other general corporate purposes. The Credit Facility agreement requires us to comply with financial and other covenants. We may pay dividends and repurchase common stock if we are in compliance with these covenants.

As of December 31, 2020 and 2019, we had $186.0 million and $184.4 million of borrowings outstanding under our Credit Facility, respectively. We had $376.5 million and $351.4 million of letters of credit outstanding under our Credit Facility as of December 31, 2020 and 2019, respectively.

In July 2020, we executed an amendment to the Credit Facility agreement to increase flexibility and reduce restrictions, in particular, for future acquisitions. Effective June 30, 2020, the amendment eliminated the consolidated interest coverage ratio and revised the sole remaining financial covenant, total debt to EBITDA ratio.

Uncommitted Credit Facility

We also have an Uncommitted Credit Facility, which bears interest at a LIBOR Rate or a Cost of Funds rate (both as defined in the Uncommitted Credit Facility Agreement), plus an applicable margin. We can use borrowings under the Uncommitted Credit Facility for working capital and other general corporate purposes. The agreement governing our Uncommitted Credit Facility requires us to comply with certain covenants. The Uncommitted Credit Facility may be terminated by either party at any time. As of December 31, 2020, we had no borrowings outstanding under our Uncommitted Credit Facility. As of December 31, 2019, we had $11.6 million of borrowings outstanding under our Uncommitted Credit Facility.

Financial and Other Covenants

The Credit Facility and 364-Day Credit Facility (collectively, the Credit Facilities) require us to comply with financial and other covenants. To the extent we are not in compliance with these covenants, we cannot pay dividends or repurchase common stock. Compliance with covenants also is a condition for any incremental borrowings under the Credit Facilities, and failure to meet these covenants would enable the lenders to require repayment of any outstanding loans (which would adversely affect our liquidity). In July 2020, we executed an amendment to the Credit Facility agreement to increase flexibility and reduce restrictions, in particular, for future acquisitions. Effective June 30, 2020, the amendment eliminated the consolidated interest coverage ratio and revised the sole remaining financial covenant, total debt to EBITDA ratio. The 364-Day Credit Facility and the Credit Facility, as amended, provide that our total debt to EBITDA ratio may not exceed 3.75 to 1.00 as of the last day of any fiscal quarter. In the case of an "elevated ratio period", which may be elected by us if one or more acquisitions during a fiscal quarter involve aggregate consideration in excess of $200.0 million (the Trigger Quarter), the total debt to EBITDA ratio may not exceed 4.25 to 1.00 during the Trigger Quarter and for the three fiscal quarters thereafter. The 364-Day Credit Facility and the Credit Facility, as amended, also provide that there may not be more than two elevated ratio periods during the respective terms of the Credit Facility and 364-Day Credit Facility agreements. As of December 31, 2020, our total debt to EBITDA ratio was 3.07 compared to the 3.75 maximum allowed by the covenants. As of December 31, 2020, we were in compliance with the covenants under the Credit Facilities, and we expect to be in compliance throughout 2021.

EBITDA, which is a non-U.S. GAAP measure, is calculated as defined in our Credit Facility and 364-Day Credit Facility agreements. In this context, EBITDA is used solely to provide information regarding the extent to which we are in compliance with debt covenants and is not comparable to EBITDA used by other companies or used by us for other purposes.

Failure to comply with the financial and other covenants under the Credit Facilities, as well as the occurrence of certain material adverse events, would constitute defaults and would allow the lenders under the Credit Facilities to accelerate the maturity of all indebtedness under the Credit Facilities agreements. This could have an adverse effect on the availability of financial assurances. In addition, maturity acceleration on the Credit Facilities constitutes an event of default under our other debt

instruments, including our senior notes, and, therefore, our senior notes would also be subject to acceleration of maturity. If such acceleration were to occur, we would not have sufficient liquidity available to repay the indebtedness. We would likely have to seek an amendment under the Credit Facilities for relief from the financial covenant or repay the debt with proceeds from the issuance of new debt or equity, or asset sales, if necessary. We may be unable to amend the Credit Facilities or raise sufficient capital to repay such obligations in the event the maturity is accelerated.

Senior Notes and Debentures

As of December 31, 2020, we had $7,437.0 million of unsecured senior notes and debentures outstanding with maturities ranging from 2021 to 2050. As of December 31, 2019, we had $7,257.0 million of unsecured senior notes and debentures outstanding with maturities ranging from 2020 to 2041.

In November 2020, we issued $350.0 million of 0.875% senior notes due 2025 (the 0.875% Notes) and $750.0 million of 1.750% senior notes due 2032 (the 1.750% Notes). We used the net proceeds from the 0.875% Notes and 1.750% Notes to redeem all $850.0 million of the outstanding 3.550% senior notes due June 2022 and $250.0 million of the $550.0 million outstanding 4.750% senior notes due May 2023.

In August 2020, we issued $650.0 million of 1.450% senior notes due 2031 (the 1.450% Notes). We used the net proceeds to redeem all $600.0 million of the outstanding 5.250% senior notes due November 2021 plus a make-whole premium of $34.0 million. The remaining proceeds were used for general corporate purposes.

In February 2020, we issued $600.0 million of 2.300% senior notes due 2030 (the 2.300% Notes) and $400.0 million of 3.050% senior notes due 2050 (the 3.050% Notes). We used the net proceeds from the 2.300% Notes and 3.050% Notes to repay $850.0 million of 5.000% senior notes that matured in March 2020. The remaining proceeds were used to repay amounts outstanding under our unsecured credit facilities as well as for general corporate purposes.

Our senior notes are general senior unsecured obligations. Interest is payable semi-annually.

Derivative Instruments and Hedging Relationships

Our ability to obtain financing through the capital markets is a key component of our financial strategy. Historically, we have managed risk associated with executing this strategy, particularly as it relates to fluctuations in interest rates, by using a combination of fixed and floating rate debt. From time to time, we also have entered into interest rate swap and lock agreements to manage risk associated with interest rates, either to effectively convert specific fixed rate debt to a floating rate (fair value hedges), or to lock interest rates in anticipation of future debt issuances (cash flow hedges).

Additionally, we amended certain interest rate lock agreements, extending the mandatory maturity date and dedesignated them as cash flow hedges (the Extended Interest Rate Locks). In addition, we entered into offsetting interest rate swaps to offset future exposures to fair value fluctuations of the Extended Interest Rate Locks.

For a description of our derivative contracts and hedge accounting, see Note 9, *Debt*, to our audited consolidated financial statements included in Part II, Item 8 of this Annual Report on Form 10-K.

Tax-Exempt Financings

As of December 31, 2020, we had $1,104.7 million of certain variable rate tax-exempt financings outstanding with maturities ranging from 2021 to 2050. As of December 31, 2019, we had $1,116.2 million of certain variable rate tax-exempt financings outstanding with maturities ranging from 2020 to 2049. During the year ended December 31, 2020, we issued $60.0 million of new tax-exempt financings. During the year ended December 31, 2019, we refinanced $35.0 million and issued $30.0 million of tax-exempt financings.

Finance Leases

We had finance lease liabilities of $206.5 million and $119.3 million as of December 31, 2020 and 2019, respectively, with maturities ranging from 2021 to 2063 and 2020 to 2049, respectively.

In September 2020, we entered into an agreement to extend the term of one of our landfill finance leases by 43 years, or through the end of the landfill's site life. Accordingly, we recognized an incremental finance lease obligation of $90.4 million.

Contractual Obligations

The following table summarizes our estimated contractual obligations as of December 31, 2020 (in millions):

Year Ending December 31,	Operating Leases	Maturities of Notes Payable, Finance Leases and Other Long-Term Debt	Scheduled Interest Payment Obligations	Final Capping, Closure and Post-Closure	Remediation	Unconditional Purchase Commitments	Total
2021	$ 41.5	$ 168.1	$ 267.7	$ 57.5	$ 57.0	$ 163.6	$ 755.4
2022	37.9	6.4	265.0	61.1	64.7	97.0	532.1
2023	35.6	659.4	251.0	76.0	67.8	61.0	1,150.8
2024	30.9	924.9	224.6	75.6	59.8	53.4	1,369.2
2025	29.4	854.6	203.5	82.2	41.0	29.4	1,240.1
Thereafter	105.8	6,441.2	1,694.7	6,348.8	352.4	252.9	15,195.8
Total	$ 281.1	$ 9,054.6	$ 2,906.5	$ 6,701.2	$ 642.7	$ 657.3	$ 20,243.4

Scheduled interest payment obligations in the above table were calculated using stated coupon rates for fixed rate debt and interest rates applicable as of December 31, 2020 for variable rate debt. The effect of our outstanding interest rate swaps on the interest payments of our 4.750% fixed rate senior notes due in May 2023 is also included based on the floating rates in effect as of December 31, 2020.

The estimated remaining final capping, closure and post-closure and remediation expenditures presented above are not inflated or discounted and reflect the estimated future payments for liabilities incurred and recorded as of December 31, 2020 and for liabilities yet to be incurred over the remaining life of our landfills.

Unconditional purchase commitments consist primarily of (1) disposal related agreements that include fixed or minimum royalty payments, host agreements and take-or-pay and put-or-pay agreements and (2) other obligations including committed capital expenditures and consulting service agreements.

Financial Assurance

We must provide financial assurance to governmental agencies and a variety of other entities under applicable environmental regulations relating to our landfill operations for capping, closure and post-closure costs, and related to our performance under certain collection, landfill and transfer station contracts. We satisfy these financial assurance requirements by providing surety bonds, letters of credit, or insurance policies (Financial Assurance Instruments), or trust deposits, which are included in restricted cash and marketable securities and other assets in our consolidated balance sheets. The amount of the financial assurance requirements for capping, closure and post-closure costs is determined by applicable state environmental regulations. The financial assurance requirements for capping, closure and post-closure costs may be associated with a portion of the landfill or the entire landfill. Generally, states require a third-party engineering specialist to determine the estimated capping, closure and post-closure costs that are used to determine the required amount of financial assurance for a landfill. The amount of financial assurance required can, and generally will, differ from the obligation determined and recorded under U.S. GAAP. The amount of the financial assurance requirements related to contract performance varies by contract. Additionally, we must provide financial assurance for our insurance program and collateral for certain performance obligations. We do not expect a material increase in financial assurance requirements during 2021, although the mix of Financial Assurance Instruments may change.

These Financial Assurance Instruments are issued in the normal course of business and are not classified as indebtedness. Because we currently have no liability for the Financial Assurance Instruments, they are not reflected in our consolidated balance sheets; however, we record capping, closure and post-closure liabilities and insurance liabilities as they are incurred.

Off-Balance Sheet Arrangements

We have no off-balance sheet debt or similar obligations, other than short-term operating leases and financial assurances, which are not classified as debt. We have no transactions or obligations with related parties that are not disclosed, consolidated into or reflected in our reported financial position or results of operations. We have not guaranteed any third-party debt.

Contingencies

For a description of our commitments and contingencies, see Note 8, *Landfill and Environmental Costs*, Note 11, *Income Taxes,* and Note 19, *Commitments and Contingencies*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

Critical Accounting Judgments and Estimates

Our consolidated financial statements have been prepared in accordance with U.S. GAAP and necessarily include certain estimates and judgments made by management. The following is a list of accounting policies that we believe are the most critical in understanding our consolidated financial position, results of operations and cash flows and that may require management to make subjective or complex judgments about matters that are inherently uncertain. Such critical accounting policies, estimates and judgments are applicable to all of our operating segments.

We have noted examples of the residual accounting and business risks inherent in the accounting for these areas. Residual accounting and business risks are defined as the inherent risks that we face after the application of our policies and processes that are generally outside of our control or ability to forecast.

Landfill Accounting

Landfill operating costs are treated as period expenses and are not discussed further in this section.

Our landfill assets and liabilities fall into the following two categories, each of which requires accounting judgments and estimates:

- Landfill development costs that are capitalized as an asset.
- Landfill retirement obligations relating to our capping, closure and post-closure liabilities that result in a corresponding landfill retirement asset.

We use life-cycle accounting and the units-of-consumption method to recognize landfill development costs over the life of the site. In life-cycle accounting, all current and future capitalized costs to acquire and construct a site are calculated, and charged to expense based on the consumption of cubic yards of available airspace. Obligations associated with final capping, closure and post-closure are also capitalized, and amortized on a units-of-consumption basis as airspace is consumed. Cost and airspace estimates are developed at least annually by engineers.

Landfill Development Costs

Site permits. To develop, construct and operate a landfill, we must obtain permits from various regulatory agencies at the local, state and federal levels. The permitting process requires an initial site study to determine whether the location is feasible for landfill operations. The initial studies are reviewed by our environmental management group and then submitted to the regulatory agencies for approval. During the development stage we capitalize certain costs that we incur after site selection but before the receipt of all required permits if we believe that it is probable that the site will be permitted.

Residual risks:

- Changes in legislative or regulatory requirements may cause changes to the landfill site permitting process. These changes could make it more difficult and costly to obtain and maintain a landfill permit.
- Studies performed could be inaccurate, which could result in the denial or revocation of a permit and changes to accounting assumptions. Conditions could exist that were not identified in the study, which may make the location not feasible for a landfill and could result in the denial of a permit. Denial or revocation of a permit could impair the recorded value of the landfill asset.
- Actions by neighboring parties, private citizen groups or others to oppose our efforts to obtain, maintain or expand permits could result in denial, revocation or suspension of a permit, which could adversely impact the economic viability of the landfill and could impair the recorded value of the landfill. As a result of opposition to our obtaining a permit, improved technical information as a project progresses, or changes in the anticipated economics associated with a project, we may decide to reduce the scope of, or abandon, a project, which could result in an asset impairment.

Technical landfill design. Upon receipt of initial regulatory approval, technical landfill designs are prepared. The technical designs, which include the detailed specifications to develop and construct all components of the landfill including the types and quantities of materials that will be required, are reviewed by our environmental management group. The technical designs are submitted to the regulatory agencies for approval. Upon approval of the technical designs, the regulatory agencies issue permits to develop and operate the landfill.

Residual risks:

- Changes in legislative or regulatory requirements may require changes in the landfill technical designs. These changes could make it more difficult and costly to meet new design standards.
- Technical design requirements, as approved, may need modifications at some future point in time.

- Technical designs could be inaccurate and could result in increased construction costs, difficulty in obtaining a permit or the use of rates to recognize the amortization of landfill development costs and asset retirement obligations that are not appropriate.

Permitted and probable landfill disposal capacity. Included in the technical designs are factors that determine the ultimate disposal capacity of the landfill. These factors include the area over which the landfill will be developed, such as the depth of excavation, the height of the landfill elevation and the angle of the side-slope construction. The disposal capacity of the landfill is calculated in cubic yards. This measurement of volume is then converted to a disposal capacity expressed in tons based on a site-specific expected density to be achieved over the remaining operating life of the landfill.

Residual risks:

- Estimates of future disposal capacity may change as a result of changes in legislative or regulatory design requirements.
- The density of waste may vary due to variations in operating conditions, including waste compaction practices, site design, climate and the nature of the waste.
- Capacity is defined in cubic yards but waste received is measured in tons. The number of tons per cubic yard varies by type of waste and our rate of compaction.

Development costs. The types of costs that are detailed in the technical design specifications generally include excavation, natural and synthetic liners, construction of leachate collection systems, installation of methane gas collection systems and monitoring probes, installation of groundwater monitoring wells, construction of leachate management facilities and other costs associated with the development of the site. We review the adequacy of our cost estimates on an annual basis by comparing estimated costs with third-party bids or contractual arrangements, reviewing the changes in year-over-year cost estimates for reasonableness, and comparing our resulting development cost per acre with prior period costs. These development costs, together with any costs incurred to acquire, design and permit the landfill, including capitalized interest, are recorded to the landfill asset on the balance sheet as incurred.

Residual risk:

- Actual future costs of construction materials and third-party labor could differ from the costs we have estimated because of the level of demand and the availability of the required materials and labor. Technical designs could be altered due to unexpected operating conditions, regulatory changes or legislative changes.

Landfill development asset amortization. To match the expense related to the landfill asset with the revenue generated by the landfill operations, we amortize the landfill development asset over its operating life on a per-ton basis as waste is accepted at the landfill. The landfill asset is fully amortized at the end of a landfill's operating life. The per-ton rate is calculated by dividing the sum of the landfill development asset net book value plus estimated future development costs (as described above) for the landfill, by the landfill's estimated remaining disposal capacity. The expected future development costs are not inflated or discounted, but rather expressed in nominal dollars. This rate is applied to each ton accepted at the landfill to arrive at amortization expense for the period.

Amortization rates are influenced by the original cost basis of the landfill, including acquisition costs, which in turn is determined by geographic location and market values. We secure significant landfill assets through business acquisitions and value them at the time of acquisition based on fair value. Amortization rates are also influenced by site-specific engineering and cost factors.

Residual risk:

- Changes in our future development cost estimates or our disposal capacity will normally result in a change in our amortization rates and will impact amortization expense prospectively. An unexpected significant increase in estimated costs or reduction in disposal capacity could affect the ongoing economic viability of the landfill and result in asset impairment.

On at least an annual basis, we update the estimates of future development costs and remaining disposal capacity for each landfill. These costs and disposal capacity estimates are reviewed and approved by senior operations management annually. Changes in cost estimates and disposal capacity are reflected prospectively in the landfill amortization rates that are updated annually. See our *Results of Operations* section in this Management's Discussion and Analysis of Financial Condition and Results of Operations for discussion on changes to our landfill depletion and amortization.

Landfill Asset Retirement Obligations

We have two types of retirement obligations related to landfills: (1) capping and (2) closure and post-closure.

Obligations associated with final capping activities that occur during the operating life of the landfill are recognized on a units-of-consumption basis as airspace is consumed within each discrete capping event. Obligations related to closure and post-closure activities that occur after the landfill has ceased operations are recognized on a units-of-consumption basis as airspace is consumed throughout the entire life of the landfill. Landfill retirement obligations are capitalized as the related liabilities are recognized and amortized using the units-of-consumption method over the airspace consumed within the capping event or the airspace consumed within the entire landfill, depending on the nature of the obligation. All obligations are initially measured at estimated fair value. Fair value is calculated on a present value basis using an inflation rate and our credit-adjusted, risk-free rate in effect at the time the liabilities were incurred. Future costs for final capping, closure and post-closure are developed at least annually by engineers, and are inflated to future value using estimated future payment dates and inflation rate projections.

Landfill capping. As individual areas within each landfill reach capacity, we must cap and close the areas in accordance with the landfill site permit. These requirements are detailed in the technical design of the landfill site process previously described.

Closure and post-closure. Closure costs are costs incurred after a landfill stops receiving waste, but prior to being certified as closed. After the entire landfill has reached capacity and is certified closed, we must continue to maintain and monitor the site for a post-closure period, which generally extends for 30 years. Costs associated with closure and post-closure requirements generally include maintenance of the site, the monitoring of methane gas collection systems and groundwater systems, and other activities that occur after the site has ceased accepting waste. Costs associated with post-closure monitoring generally include groundwater sampling, analysis and statistical reports, third-party labor associated with gas system operations and maintenance, transportation and disposal of leachate, and erosion control costs related to the final cap.

Landfill retirement obligation liabilities and assets. Estimates of the total future costs required to cap, close and monitor each landfill as specified by the landfill permit are updated annually. The estimates include inflation, the specific timing of future cash outflows, and the anticipated waste flow into the capping events. Our cost estimates are inflated to the period of performance using an estimate of inflation, which is updated annually and is based upon the ten year average consumer price index (1.7% in 2020 and 2019).

The present value of the remaining capping costs for specific capping events and the remaining closure and post-closure costs for each landfill are recorded as incurred on a per-ton basis. These liabilities are incurred as disposal capacity is consumed at the landfill.

Capping, closure and post-closure liabilities are recorded in layers and discounted using our credit-adjusted risk-free rate in effect at the time the obligation is incurred (3.4% and 4.3% in 2020 and 2019).

Retirement obligations are increased each year to reflect the passage of time by accreting the balance at the weighted average credit-adjusted risk-free rate that was used to calculate each layer of the recorded liabilities. This accretion is charged to operating expenses. Actual cash expenditures reduce the asset retirement obligation liabilities as they are made.

Corresponding retirement obligation assets are recorded for the same value as the additions to the capping, closure and post-closure liabilities. The retirement obligation assets are amortized to expense on a per-ton basis as disposal capacity is consumed. The per-ton rate is calculated by dividing the sum of each of the recorded retirement obligation asset's net book value and expected future additions to the retirement obligation asset by the remaining disposal capacity. A per-ton rate is determined for each separate capping event based on the disposal capacity relating to that event. Closure and post-closure per-ton rates are based on the total disposal capacity of the landfill.

Residual risks:

- Changes in legislative or regulatory requirements, including changes in capping, closure activities or post-closure monitoring activities, types and quantities of materials used, or term of post-closure care, could cause changes in our cost estimates.
- Changes in the landfill retirement obligation due to changes in the anticipated waste flow, changes in airspace compaction estimates or changes in the timing of expenditures for closed landfills and fully incurred but unpaid capping events are recorded in results of operations prospectively. This could result in unanticipated increases or decreases in expense.
- Actual timing of disposal capacity utilization could differ from projected timing, causing differences in timing of when amortization and accretion expense is recognized for capping, closure and post-closure liabilities.
- Changes in inflation rates could impact our actual future costs and our total liabilities.
- Changes in our capital structure or market conditions could result in changes to the credit-adjusted risk-free rate used to discount the liabilities, which could cause changes in future recorded liabilities, assets and expense.
- Amortization rates could change in the future based on the evaluation of new facts and circumstances relating to landfill capping design, post-closure monitoring requirements, or the inflation or discount rate.

On an annual basis, we update our estimates of future capping, closure and post-closure costs and of future disposal capacity for each landfill. Revisions in estimates of our costs or timing of expenditures are recognized immediately as increases or decreases to the capping, closure and post-closure liabilities and the corresponding retirement obligation assets. Changes in the assets result in changes to the amortization rates which are applied prospectively, except for fully incurred capping events and closed landfills, where the changes are recorded immediately in results of operations since the associated disposal capacity has already been consumed. See our *Results of Operations* section in this Management's Discussion and Analysis of Financial Condition and Results of Operations for discussion on changes to our landfill depletion and amortization.

Permitted and probable disposal capacity. Disposal capacity is determined by the specifications detailed in the landfill permit. We classify this disposal capacity as permitted. We also include probable expansion disposal capacity in our remaining disposal capacity estimates, thus including additional disposal capacity being sought through means of a permit expansion. Probable expansion disposal capacity has not yet received final approval from the applicable regulatory agencies, but we have determined that certain critical criteria have been met and that the successful completion of the expansion is probable. We have developed six criteria that must be met before an expansion area is designated as probable expansion airspace. We believe that satisfying all of these criteria demonstrates a high likelihood that expansion airspace that is incorporated in our landfill costing will be permitted. However, because some of these criteria are judgmental, they may exclude expansion airspace that will eventually be permitted or include expansion airspace that will not be permitted. In either of these scenarios, our amortization, depletion and accretion expense could change significantly. Our internal criteria to classify disposal capacity as probable expansion airspace are as follows:

- We own the land associated with the expansion airspace or control it pursuant to an option agreement;
- We are committed to supporting the expansion project financially and with appropriate resources;
- There are no identified fatal flaws or impediments associated with the project, including political impediments;
- Progress is being made on the project;
- The expansion is attainable within a reasonable time frame; and
- We believe it is likely we will receive the expansion permit.

After successfully meeting these criteria, the disposal capacity that will result from the planned expansion is included in our remaining disposal capacity estimates. Additionally, for purposes of calculating landfill amortization and capping, closure and post-closure rates, we include the incremental costs to develop, construct, close and monitor the related probable expansion disposal capacity.

Residual risk:

- We may be unsuccessful in obtaining permits for probable expansion disposal capacity because of the failure to obtain the final local, state or federal permits or due to other unknown reasons. If we are unsuccessful in obtaining permits for probable expansion disposal capacity, or the disposal capacity for which we obtain approvals is less than what was estimated, both our estimated total costs and disposal capacity will be reduced, which generally increases the rates we charge for landfill amortization and capping, closure and post-closure accruals. An unexpected decrease in disposal capacity could also cause an asset impairment.

Environmental Liabilities

We are subject to an array of laws and regulations relating to the protection of the environment, and we remediate sites in the ordinary course of our business. Under current laws and regulations, we may be responsible for environmental remediation at sites that we either own or operate, including sites that we have acquired, or sites where we have (or a company that we have acquired has) delivered waste. Our environmental remediation liabilities primarily include costs associated with remediating groundwater, surface water and soil contamination, as well as controlling and containing methane gas migration and the related legal costs. To estimate our ultimate liability at these sites, we evaluate several factors, including the nature and extent of contamination at each identified site, the required remediation methods, timing of expenditures, the apportionment of responsibility among the potentially responsible parties and the financial viability of those parties. We accrue for costs associated with environmental remediation obligations when such costs are probable and reasonably estimable in accordance with accounting for loss contingencies. We periodically review the status of all environmental matters and update our estimates of the likelihood of and future expenditures for remediation as necessary. Changes in the liabilities resulting from these reviews are recognized currently in earnings in the period in which the adjustment is known. Adjustments to estimates are reasonably possible in the near term and may result in changes to recorded amounts. With the exception of those obligations assumed in certain business combinations, environmental obligations are recorded on an undiscounted basis. Environmental obligations assumed in certain business combinations are initially estimated on a discounted basis, and accreted to full value over time through charges to interest expense. Adjustments arising from changes in amounts and timing of estimated costs and

settlements may result in increases or decreases in these obligations and are calculated on a discounted basis as they were initially estimated on a discounted basis. These adjustments are charged to operating income when they are known. We perform a comprehensive review of our environmental obligations annually and also review changes in facts and circumstances associated with these obligations at least quarterly. See our *Results of Operations* section in this Management's Discussion and Analysis of Financial Condition and Results of Operations for discussion on our remediation adjustments. We have not reduced the liabilities we have recorded for recoveries from other potentially responsible parties or insurance companies.

Residual risks:

- We cannot determine with precision the ultimate amounts of our environmental remediation liabilities. Our estimates of these liabilities require assumptions about uncertain future events. Thus, our estimates could change substantially as additional information becomes available regarding the nature or extent of contamination, the required remediation methods, timing of expenditures, the final apportionment of responsibility among the potentially responsible parties identified, the financial viability of those parties, and the actions of governmental agencies or private parties with interests in the matter. The actual environmental costs may exceed our current and future accruals for these costs, and any adjustments could be material.
- Actual amounts could differ from the estimated liabilities as a result of changes in estimated future litigation costs to pursue the matter to ultimate resolution.
- An unanticipated environmental liability that arises could result in a material charge to our consolidated statements of income.

Insurance Reserves and Related Costs

Our insurance policies for workers' compensation, commercial general liability, commercial auto liability and environmental liability are high deductible, or retention programs. The deductibles, or retentions, range from $3 million to $10 million. The employee-related health benefits are also subject to a high deductible insurance policy. Accruals for deductibles or retentions are based on claims filed and actuarial estimates of claims development and claims incurred but not reported.

Residual risks:

- Incident rates, including frequency and severity, and other actuarial assumptions could change causing our current and future actuarially determined obligations to change, which would be reflected in our consolidated statements of income in the period in which such adjustment is known.
- Recorded reserves may not be adequate to cover the future payment of claims. Adjustments, if any, to estimates recorded resulting from ultimate claim payments would be reflected in the consolidated statements of income in the periods in which such adjustments are known.
- The settlement costs to discharge our obligations, including legal and health care costs, could increase or decrease causing current estimates of our insurance reserves to change.

New Accounting Standards

For a description of new accounting standards that may affect us, see Note 2, *Summary of Significant Accounting Policies*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Interest Rate Risk

Our major market risk exposure of our financial instruments is changing interest rates in the United States and fluctuations in LIBOR. We intend to manage interest rate risk through the use of a combination of fixed and floating rate debt. The carrying value of our variable rate debt approximates fair value because interest rates are variable and, accordingly, approximates current market rates for instruments with similar risk and maturities. The fair value of our debt is determined as of the balance sheet date and is subject to change.

The table below provides information about certain of our market-sensitive financial instruments and constitutes a forward-looking statement.

	Expected Maturity Date							
	2021	2022	2023	2024	2025	Thereafter	Total	Fair Value as of December 31, 2020
Fixed rate debt:								
Amount outstanding (in millions)	$ 41.1	$ 6.4	$ 329.2	$ 904.2	$ 854.6	$ 5,621.9	$ 7,757.4	$ 8,708.4
Variable rate debt:								
Amount outstanding (in millions)	$ 127.0	$ —	$ 330.2	$ 20.7	$ —	$ 819.3	$ 1,297.2	$ 1,290.7

The fixed and variable rate debt amounts above exclude the remaining non-cash discounts, premiums and adjustments to fair value totaling $120.4 million.

During the second half of 2013, we entered into various interest rate swap agreements relative to our 4.750% fixed rate senior notes due in May 2023. The goal was to reduce overall borrowing costs and rebalance our debt portfolio's ratio of fixed to floating interest rates. These swap agreements, which were designated as fair value hedges, have a total notional value of $300.0 million as of December 31, 2020. Contemporaneously with our $250.0 million redemption of the 4.750% Notes, we dedesignated the proportional share of these swap agreements as fair value hedges. Our interest rate swap contracts have been authorized pursuant to our policies and procedures. We do not use financial instruments for trading purposes and are not a party to any leveraged derivatives.

We have historically entered into multiple swap agreements designated as cash flow hedges to manage exposure to fluctuations in interest rates in anticipation of planned future issuances of senior notes. Upon the expected issuance of senior notes, we terminate the interest rate locks and settle with our counterparties. These transactions were accounted for as cash flow hedges. All of our cash flow hedges settled on or before December 31, 2020, thus there is no related asset or liability as of December 31, 2020. As of December 31, 2019 our interest rate lock agreements had an aggregate notional value of $575.0 million with fixed interest rates ranging from 1.330% to 3.000%.

As of December 31, 2020, we had $1,297.2 million of floating rate debt and $300.0 million of floating interest rate swap contracts. If interest rates increased or decreased by 100 basis points on our variable rate debt, annualized interest expense and net cash payments for interest would increase or decrease by approximately $16 million. This analysis does not reflect the effect that interest rates would have on other items, such as new borrowings and the impact on the economy. See Note 9, *Debt,* of the notes to our consolidated financial statements in Item 8 of this Form 10-K for further information regarding how we manage interest rate risk.

Fuel Price Risk

Fuel costs represent a significant operating expense. When economically practical, we may enter into new fuel hedges, renew contracts, or engage in other strategies to mitigate market risk. As of December 31, 2020, we had no fuel hedges in place. While we charge fuel recovery fees to a majority of our customers, we are unable to charge such fees to all customers.

At current consumption levels, we believe a twenty-cent per gallon change in the price of diesel fuel would change our fuel costs by approximately $25 million per year. Offsetting these changes in fuel expense would be changes in our fuel recovery fee charged to our customers. At current participation rates, we believe a twenty-cent per gallon change in the price of diesel fuel would change our fuel recovery fee by approximately $25 million per year.

Our operations also require the use of certain petrochemical-based products (such as liners at our landfills) whose costs may vary with the price of petrochemicals. An increase in the price of petrochemicals could increase the cost of those products, which would increase our operating and capital costs. We also are susceptible to increases in fuel recovery fees from our vendors.

Our fuel costs were $271.7 million in 2020, or 2.7% of revenue, compared to $347.9 million in 2019, or 3.4% of revenue.

Commodities Price Risk

We market recovered materials such as old corrugated containers and old newsprint from our recycling processing centers. Changes in market supply and demand for recycled commodities causes volatility in commodity prices. In prior periods, we have entered into derivative instruments such as swaps and costless collars designated as cash flow hedges to manage our

exposure to changes in prices of these commodities. As of December 31, 2020, we had no recycling commodity hedges in place.

At current volumes and mix of materials, we believe a $10 per ton change in the price of recycled commodities would change both annual revenue and operating income by approximately $12 million.

Revenue from recycling processing and commodity sales during the years ended December 31, 2020 and 2019 was $297.1 million and $273.3 million, respectively.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of Republic Services, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Republic Services, Inc. (the Company) as of December 31, 2020 and 2019, the related consolidated statements of income, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2020, and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2020, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated February 22, 2021, expressed an unqualified opinion thereon.

Basis for Opinion

These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's consolidated financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Landfill Development Asset Amortization

Description of the Matter	At December 31, 2020, the net book value of the Company's landfill development assets totaled $3,742.2 million, and the associated landfill development asset amortization expense for 2020 was $323.0 million. Significant assumptions used in calculating the amortization expense include estimated future development costs associated with the land, permitting, cell construction and environmental structures of the landfill in relation to airspace consumed to date and total estimated available airspace. These assumptions have a significant effect on the total landfill amortization expense. As discussed in Note 2 to the consolidated financial statements, costs and airspace estimates are developed at least annually, or more often if significant facts change.
How We Addressed the Matter in Our Audit	Auditing landfill development asset amortization expense is complex due to the highly judgmental nature of the assumptions used in the calculation of the expense and required the involvement of specialists to assist us with evaluating estimated future development costs and certain assumptions to project total estimated available airspace. We tested controls that address the risks of material misstatement relating to the measurement and valuation of landfill development asset amortization expense. For example, we tested controls over the estimation of future landfill development costs and management's review of the assumptions to project total estimated available airspace.

To test the landfill development asset amortization expense, our audit procedures included, among others, assessing methodologies and testing the significant assumptions discussed above related to the underlying cost and airspace data used by the Company. We compared the significant assumptions used by management to historical trends and, when available, to comparable size landfills accepting the same type of waste. We also tested the completeness and accuracy of the historical data utilized in the development of the amortization expense. Regarding available airspace, we evaluated the Company's estimation of the landfill disposal capacity through a comparison of airspace to historical estimates and annual aerial surveys. We involved EY engineering specialists to assist us with evaluating estimated future development costs and certain assumptions to project total estimated available airspace.

Landfill Final Capping, Closure and Post-Closure Costs

Description of the Matter

At December 31, 2020, the carrying value of the Company's landfill final capping, closure and post-closure costs totaled $1,346.4 million. As discussed in Notes 2 and 8 to the consolidated financial statements, asset retirement obligations for final capping, closure and post-closure are measured at their estimated fair value. Management updates the assumptions used to estimate asset retirement obligations at least annually, or more often if significant facts change. These assumptions include estimated future costs associated with the final capping, closure and post closure activities at each landfill, airspace consumed to date, estimated available airspace, projected annual tonnage volume, projected timing of capping, closure and post closure activities and estimated inflation and discount rates. These assumptions have a significant effect on the estimated asset retirement obligation.

How We Addressed the Matter in Our Audit

Auditing the landfill asset retirement obligation is complex due to the highly judgmental nature of the assumptions used in the measurement process and required the involvement of specialists to assist us with evaluating the costs estimated for the capping, closure and post closure activities and certain assumptions to project total estimated available airspace.

We tested controls that address the risks of material misstatement relating to the completeness, measurement and valuation of the asset retirement obligation. For example, we tested controls over management's development of the landfill asset retirement obligation models to estimate the future liability and management's review of data inputs and projections.

To test the landfill asset retirement obligation, our audit procedures included, among others, assessing methodologies used by the Company, testing the completeness of activities included in the estimate (e.g., gas monitoring and leachate management) and testing the significant assumptions discussed above, as well as the underlying costs and other estimates used by the Company in its development of these assumptions. We compared the significant assumptions used by management to historical trends and, when available, to comparable size landfills accepting the same type of waste. We also tested the completeness and accuracy of the historical data utilized in preparing the estimate. We involved EY engineering specialists to assist us with evaluating the costs estimated for the capping, closure and post closure activities and the reasons for significant changes in assumptions from historical trends and determined whether the change from the historical trend was appropriate and identified timely. EY engineering specialists were also involved in evaluating certain assumptions to project total estimated available airspace.

Environmental Liabilities

Description of the Matter

At December 31, 2020, environmental remediation liabilities totaled $462.8 million. As discussed in Note 2 to the consolidated financial statements, the Company performs a review of their environmental obligations annually and when it identifies changes in facts and circumstances associated with these obligations. The Company considers several factors to estimate the ultimate liability at these sites, including, but not limited to, the nature and extent of contamination, the required remediation methods, timing of expenditures, and apportionment of responsibility among the potentially responsible parties and the financial viability of those parties. The Company accrues for costs associated with environmental remediation obligations when such costs are probable and reasonably estimable. Significant assumptions used in estimating environmental remediation liabilities include costs associated with remediating groundwater, surface water and soil contamination, as well as controlling and containing methane gas migration and the related legal costs. These assumptions have a significant effect on the estimated liability.

How We Addressed the Matter in Our Audit

Auditing environmental remediation liabilities is complex and required the involvement of specialists due to the highly judgmental nature of the assumptions used in the estimate.

We tested controls that address the risks of material misstatement relating to the valuation and completeness of the environmental liabilities. For example, we tested controls over the identification of new matters and management's review of the significant assumptions used in determining the estimated remediation liabilities.

To test the environmental liabilities, our audit procedures included, among others, assessing methodologies used by the Company and testing the significant assumptions discussed above, as well as the underlying costs and other estimates used by the Company in its development of these assumptions. We compared the significant assumptions used by management to historical trends and, when available, to notifications or decisions from regulatory agencies specifying remedial plans of action required and to agreements or correspondence regarding the apportionment of responsibility among the potentially responsible parties. We also tested the completeness and accuracy of the historical data utilized in the development of the environmental liability. We also involved EY engineering specialists to assist us with evaluating the completeness of the Company's environmental matters and assumptions used in estimating remediation liabilities for certain sites.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 2002.

Phoenix, Arizona

February 22, 2021

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and Board of Directors of Republic Services, Inc.

Opinion on Internal Control over Financial Reporting

We have audited Republic Services, Inc.'s internal control over financial reporting as of December 31, 2020, based on criteria established in Internal Control – Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Republic Services, Inc. (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2020, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of Republic Services, Inc. as of December 31, 2020 and 2019, the related consolidated statements of income, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2020, and the related notes and our report dated February 22, 2021, expressed an unqualified opinion thereon.

As indicated in the accompanying Report of Management on Republic Services, Inc's Internal Control over Financial Reporting, management's assessment of and conclusion on the effectiveness of internal control over financial reporting did not include the internal controls of Randy's Sanitation, LLC, Randy's Rentals, LLC, Gallegos Sanitation, Inc. and related entities, and Eagle Waste & Recycling, Inc. and related entities, which are included in the 2020 consolidated financial statements of the Company and constituted less than 1% of total and net assets as of December 31, 2020 and less than 1% of revenues and net income for the year then ended. Our audit of internal control over financial reporting of the Company also did not include an evaluation of the internal control over financial reporting of Randy's Sanitation, LLC, Randy's Rentals, LLC, Gallegos Sanitation, Inc. and related entities, and Eagle Waste & Recycling, Inc. and related entities.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Report of Management on Republic Services, Inc.'s Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP

Phoenix, Arizona

February 22, 2021

REPUBLIC SERVICES, INC.
CONSOLIDATED BALANCE SHEETS
(in millions, except per share data)

	December 31, 2020	December 31, 2019
ASSETS		
Current assets:		
Cash and cash equivalents	$ 38.2	$ 47.1
Accounts receivable, less allowance for doubtful accounts and other of $34.7 and $34.0, respectively	1,091.3	1,125.9
Prepaid expenses and other current assets	392.3	433.0
Total current assets	1,521.8	1,606.0
Restricted cash and marketable securities	149.1	179.4
Property and equipment, net	8,726.2	8,383.5
Goodwill	12,046.4	11,633.4
Other intangible assets, net	173.1	133.9
Other assets	817.4	747.6
Total assets	$ 23,434.0	$ 22,683.8
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	$ 779.0	$ 777.9
Notes payable and current maturities of long-term debt	168.1	929.9
Deferred revenue	345.6	336.0
Accrued landfill and environmental costs, current portion	114.5	132.6
Accrued interest	54.6	74.0
Other accrued liabilities	820.2	814.2
Total current liabilities	2,282.0	3,064.6
Long-term debt, net of current maturities	8,766.1	7,758.6
Accrued landfill and environmental costs, net of current portion	1,694.7	1,703.2
Deferred income taxes and other long-term tax liabilities, net	1,238.8	1,180.6
Insurance reserves, net of current portion	281.8	276.5
Other long-term liabilities	681.8	579.4
Commitments and contingencies		
Stockholders' equity:		
Preferred stock, par value $0.01 per share; 50 shares authorized; none issued	—	—
Common stock, par value $0.01 per share; 750 shares authorized; 318.8 and 353.3 issued including shares held in treasury, respectively	3.2	3.5
Additional paid-in capital	2,741.4	4,994.8
Retained earnings	5,751.8	5,317.3
Treasury stock, at cost; — and 34.5 shares, respectively	(0.1)	(2,199.6)
Accumulated other comprehensive income, net of tax	(12.4)	2.2
Total Republic Services, Inc. stockholders' equity	8,483.9	8,118.2
Non-controlling interests in consolidated subsidiary	4.9	2.7
Total stockholders' equity	8,488.8	8,120.9
Total liabilities and stockholders' equity	$ 23,434.0	$ 22,683.8

The accompanying notes are an integral part of these financial statements.

REPUBLIC SERVICES, INC.
CONSOLIDATED STATEMENTS OF INCOME
(in millions, except per share data)

	Years Ended December 31,		
	2020	2019	2018
Revenue	$ 10,153.6	$ 10,299.4	$ 10,040.9
Expenses:			
Cost of operations	6,100.5	6,298.4	6,150.0
Depreciation, amortization and depletion	1,075.9	1,040.5	1,033.4
Accretion	82.9	81.9	80.7
Selling, general and administrative	1,053.0	1,091.9	1,059.5
Withdrawal costs - multiemployer pension funds	34.5	—	—
Loss (gain) on business divestitures and impairments, net	77.7	(14.7)	(44.9)
Restructuring charges	20.0	14.2	26.4
Operating income	1,709.1	1,787.2	1,735.8
Interest expense	(355.6)	(392.0)	(383.8)
Loss from unconsolidated equity method investments	(118.2)	(112.2)	(35.8)
Loss on extinguishment of debt	(101.9)	—	(0.3)
Interest income	5.2	6.4	1.6
Other income, net	4.1	6.4	3.4
Income before income taxes	1,142.7	1,295.8	1,320.9
Provision for income taxes	173.1	222.0	283.3
Net income	969.6	1,073.8	1,037.6
Net income attributable to non-controlling interests in consolidated subsidiary	(2.4)	(0.5)	(0.7)
Net income attributable to Republic Services, Inc.	$ 967.2	$ 1,073.3	$ 1,036.9
Basic earnings per share attributable to Republic Services, Inc. stockholders:			
Basic earnings per share	$ 3.03	$ 3.34	$ 3.17
Weighted average common shares outstanding	319.3	321.1	326.9
Diluted earnings per share attributable to Republic Services, Inc. stockholders:			
Diluted earnings per share	$ 3.02	$ 3.33	$ 3.16
Weighted average common and common equivalent shares outstanding	319.8	322.0	328.4
Cash dividends per common share	$ 1.66	$ 1.56	$ 1.44

The accompanying notes are an integral part of these financial statements.

REPUBLIC SERVICES, INC.
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
(in millions)

	Years Ended December 31,		
	2020	2019	2018
Net income	$ 969.6	$ 1,073.8	$ 1,037.6
Other comprehensive income (loss), net of tax			
Hedging activity:			
Settlements	—	—	4.0
Realized loss (gain) reclassified into earnings	5.8	1.0	(3.8)
Unrealized (loss) gains	(22.5)	(30.2)	14.5
Pension activity:			
Change in funded status of pension plan obligations	2.1	(2.5)	(6.5)
Other comprehensive income (loss), net of tax	(14.6)	(31.7)	8.2
Comprehensive income	955.0	1,042.1	1,045.8
Comprehensive income attributable to non-controlling interests	(2.4)	(0.5)	(0.7)
Comprehensive income attributable to Republic Services, Inc.	$ 952.6	$ 1,041.6	$ 1,045.1

The accompanying notes are an integral part of these financial statements.

REPUBLIC SERVICES, INC.
CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY
(in millions)

	Republic Services, Inc. Stockholders' Equity								
	Common Stock		Additional Paid-In Capital	Retained Earnings	Treasury Stock		Accumulated Other Comprehensive Income (Loss), Net of Tax	Non-controlling Interests In Consolidated Subsidiary	Total
	Shares	Amount			Shares	Amount			
Balance as of December 31, 2017	350.1	$ 3.5	$ 4,839.6	$ 4,152.5	(18.4)	$ (1,059.4)	$ 22.6	$ 2.3	$ 7,961.1
Adoption of accounting standard, net of tax	—	—	—	33.4	—	—	—	—	$ 33.4
Net income	—	—	—	1,036.9	—	—	—	0.7	1,037.6
Change in the value of derivative instruments, net of tax of $5.4	—	—	—	—	—	—	14.7	—	14.7
Employee benefit plan liability adjustments, net of tax of $2.3	—	—	—	—	—	—	(6.5)	—	(6.5)
Cash dividends declared	—	—	—	(468.4)	—	—	—	—	(468.4)
Issuances of common stock	1.8	—	43.3	—	(0.3)	(20.1)	—	—	23.2
Stock-based compensation	—	—	42.0	(3.9)	—	—	—	—	38.1
Purchase of common stock for treasury	—	—	—	—	(10.7)	(703.1)	—	—	(703.1)
Distributions paid	—	—	—	—	—	—	—	(0.6)	(0.6)
Balance as of December 31, 2018	351.9	3.5	4,924.9	4,750.5	(29.4)	(1,782.6)	30.8	2.4	7,929.5
Adoption of accounting standard, net of tax	—	—	—	(3.1)	—	—	3.1	—	—
Net income	—	—	—	1,073.3	—	—	—	0.5	1,073.8
Change in the value of derivative instruments, net of tax of $10.4	—	—	—	—	—	—	(29.2)	—	(29.2)
Employee benefit plan liability adjustments, net of tax of $0.9	—	—	—	—	—	—	(2.5)	—	(2.5)
Cash dividends declared	—	—	—	(499.4)	—	—	—	—	(499.4)
Issuances of common stock	1.4	—	26.9	—	(0.2)	(17.6)	—	—	9.3
Stock-based compensation	—	—	43.0	(4.0)	—	—	—	—	39.0
Purchase of common stock for treasury	—	—	—	—	(4.9)	(399.4)	—	—	(399.4)
Distributions paid	—	—	—	—	—	—	—	(0.2)	(0.2)
Balance as of December 31, 2019	353.3	3.5	4,994.8	5,317.3	(34.5)	(2,199.6)	2.2	2.7	8,120.9
Net income	—	—	—	967.2	—	—	—	2.4	969.6
Change in the value of derivative instruments, net of tax of $(5.9)	—	—	—	—	—	—	(16.7)	—	(16.7)
Employee benefit plan liability adjustments, net of tax of $0.8	—	—	—	—	—	—	2.1	—	2.1
Cash dividends declared	—	—	—	(528.8)	—	—	—	—	(528.8)
Issuances of common stock	1.3	—	21.6	—	(0.1)	(17.7)	—	—	3.9
Stock-based compensation	—	—	40.7	(3.9)	—	—	—	—	36.8
Purchase of common stock for treasury	—	—	—	—	(1.2)	(98.8)	—	—	(98.8)
Shares returned to unissued status	(35.8)	(0.3)	(2,315.7)	—	35.8	2,316.0	—	—	—
Distributions paid	—	—	—	—	—	—	—	(0.2)	(0.2)
Balance as of December 31, 2020	318.8	$ 3.2	$ 2,741.4	$ 5,751.8	—	$ (0.1)	$ (12.4)	$ 4.9	$ 8,488.8

The accompanying notes are an integral part of these financial statements.

REPUBLIC SERVICES, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(in millions)

	Years Ended December 31,		
	2020	2019	2018
Cash provided by operating activities:			
Net income	$ 969.6	$ 1,073.8	$ 1,037.6
Adjustments to reconcile net income to cash provided by operating activities:			
Depreciation, amortization, depletion and accretion	1,158.8	1,122.4	1,114.1
Non-cash interest expense	61.7	48.8	41.2
Stock-based compensation	37.3	39.5	39.0
Deferred tax provision	60.8	166.1	152.1
Provision for doubtful accounts, net of adjustments	27.8	34.0	34.8
Loss on extinguishment of debt	101.9	—	0.3
Loss (gain) on disposition of assets and asset impairments, net	75.5	(13.8)	(58.9)
Environmental adjustments	5.1	(11.9)	5.0
Loss from unconsolidated equity method investments	118.2	112.2	35.8
Other non-cash items	(3.8)	(5.6)	0.6
Change in assets and liabilities, net of effects from business acquisitions and divestitures:			
Accounts receivable	13.8	(38.3)	(29.6)
Prepaid expenses and other assets	6.5	(109.7)	(152.5)
Accounts payable	(46.7)	6.4	85.9
Capping, closure and post-closure expenditures	(58.6)	(78.2)	(71.9)
Remediation expenditures	(63.5)	(49.1)	(48.8)
Other liabilities	18.6	55.5	27.0
(Payments) proceeds from retirement of certain hedging relationships	(11.4)	—	31.1
Cash provided by operating activities	2,471.6	2,352.1	2,242.8
Cash used in investing activities:			
Purchases of property and equipment	(1,194.6)	(1,207.1)	(1,071.8)
Proceeds from sales of property and equipment	30.1	21.7	31.6
Cash used in acquisitions and investments, net of cash and restricted cash acquired	(769.5)	(575.1)	(277.3)
Cash received from business divestitures	32.9	42.8	89.2
Purchases of restricted marketable securities	(32.9)	(14.7)	(38.2)
Sales of restricted marketable securities	11.2	13.5	37.7
Other	—	(0.1)	(0.3)
Cash used in investing activities	(1,922.8)	(1,719.0)	(1,229.1)
Cash used in financing activities:			
Proceeds from notes payable and long-term debt, net of fees	2,625.5	4,746.5	4,347.6
Proceeds from issuance of senior notes, net of discount and fees	2,716.1	891.1	781.8
Payments of notes payable and long-term debt and senior notes	(5,221.4)	(5,327.9)	(5,000.7)
Premiums paid on extinguishment of debt	(99.1)	—	—
Issuances of common stock, net	3.9	9.3	23.2
Purchases of common stock for treasury	(98.8)	(399.4)	(736.9)
Cash dividends paid	(522.5)	(491.2)	(461.8)
Distributions paid to non-controlling interests in consolidated subsidiary	(0.2)	(0.2)	(0.6)
Contingent consideration payments	(15.5)	(17.2)	(12.1)
Cash used in financing activities	(612.0)	(589.0)	(1,059.5)
(Decrease) increase in cash, cash equivalents, restricted cash and restricted cash equivalents	(63.2)	44.1	(45.8)
Cash, cash equivalents, restricted cash and restricted cash equivalents at beginning of year	177.4	133.3	179.1
Cash, cash equivalents, restricted cash and restricted cash equivalents at end of year	$ 114.2	$ 177.4	$ 133.3

The accompanying notes are an integral part of these financial statements.

REPUBLIC SERVICES, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. BASIS OF PRESENTATION

Republic Services, Inc., a Delaware corporation, and its consolidated subsidiaries (also referred to collectively as Republic, the Company, we, us, or our), is one of the largest providers of environmental services in the United States, as measured by revenue. We manage and evaluate our operations through three operating segments, Group 1, Group 2, and environmental solutions.

The consolidated financial statements include the accounts of Republic Services, Inc. and its wholly owned and majority owned subsidiaries in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP). We account for investments in entities in which we do not have a controlling financial interest under the equity method of accounting or, for investments that do not meet the criteria to be accounted for under the equity method, we reflect these investments at their fair value when it is readily determinable. If fair value is not readily determinable, we use an alternative measurement approach. All material intercompany accounts and transactions have been eliminated in consolidation.

For comparative purposes, certain prior year amounts have been reclassified to conform to the current year presentation. All dollar amounts in tabular presentations are in millions, except per share amounts and unless otherwise noted.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Management's Estimates and Assumptions

In preparing our financial statements, we make numerous estimates and assumptions that affect the amounts reported in these financial statements and accompanying notes. We must make these estimates and assumptions because certain information we use is dependent on future events, cannot be calculated with a high degree of precision from data available or simply cannot be readily calculated based on generally accepted methodologies. In preparing our financial statements, the more critical and subjective areas that deal with the greatest amount of uncertainty relate to our accounting for our long-lived assets, including recoverability, landfill development costs, and final capping, closure and post-closure costs; our valuation allowances for accounts receivable and deferred tax assets; our liabilities for potential litigation, claims and assessments; our liabilities for environmental remediation, multiemployer pension plans, employee benefit plans, deferred taxes, uncertain tax positions, and insurance reserves; and our estimates of the fair values of assets acquired and liabilities assumed in any acquisition. Each of these items is discussed in more detail elsewhere in these Notes to Consolidated Financial Statements. Our actual results may differ significantly from our estimates.

In March 2020, the World Health Organization declared the outbreak of a new strain of coronavirus (COVID-19) a pandemic. The COVID-19 pandemic has negatively impacted the global economy, disrupted global supply chains and created significant volatility and disruption of financial markets. The full extent of the impact of the COVID-19 pandemic on our operations and financial performance will depend on future developments, including the duration and spread of the pandemic, all of which are uncertain and cannot be predicted at this time.

Both national and local government agencies have implemented steps to slow the spread of the virus, including shelter-in-place orders and the mandatory shutdown of certain businesses. During this time, we continued to provide essential services to our customers. In mid-March 2020, certain customers in our small- and large-container businesses began adjusting their service levels, which included a decrease in the frequency of pickups or a temporary pause in service. In addition, we experienced a decline in volumes disposed at certain of our landfills and transfer stations. As service levels decreased, we also experienced a decrease in certain costs of our operations which are variable in nature. This decline in service activity peaked in the first half of April and gradually improved thereafter as local economies began to gradually reopen and customers began to resume service. Large outbreaks and resurgences of COVID-19 in various regions may result in a reinstitution of certain restrictions and further adjustments in our service levels, which would negatively impact our business.

The demand for our environmental solutions business depends on the continued demand for, and production of, oil and natural gas in certain shale basins located in the United States. During the year ended December 31, 2020, the price of crude oil and natural gas reached historic lows, resulting in a decrease in rig counts and drilling activity that led to a year-over-year decrease in revenue from our environmental solutions business. During the three months ended December 31, 2020, we recognized a $42.6 million charge as a loss on business divestitures and impairments, net in our consolidated income statement resulting from management's decision to exit certain product offerings and geographic basins in our upstream environmental solutions business. As the carrying value of the assets associated with these operations was no longer recoverable, we impaired the entire net book value of certain assets, comprised mainly of equipment, vehicles, and containers. On at least a quarterly basis, we will

continue to monitor the effect of the evolving COVID-19 pandemic on our business and review our estimates for recoverability of assets.

In April 2020, we launched our Committed to Serve initiative to help our employees, customers and communities across the United States. We committed $20 million to support frontline employees and their families, as well as small business customers in the local communities where we serve. In addition to this initiative, we have experienced an increase in certain costs of doing business as a direct result of the COVID-19 pandemic, including costs for additional safety equipment and hygiene products and increased facility and equipment cleaning. These costs are intended to assist in protecting the safety of our frontline employees as we continue to provide an essential service to our customers. We also incurred incremental costs for guaranteeing certain frontline employees a minimum hourly work week regardless of service decreases. In the fourth quarter, we recognized our frontline employees for their commitment and contributions to their communities during the pandemic with a $500 award that was paid in January 2021. In addition, we incurred incremental costs associated with expanding certain aspects of our existing healthcare programs. We expect to incur similar costs throughout 2021, and potentially into future years, although we expect the amount of such costs annually to be less than those incurred in 2020.

Cash and Cash Equivalents

We consider liquid investments with a maturity at the date of acquisition of three months or less to be cash equivalents.

We may have net book credit balances in our primary disbursement accounts at the end of a reporting period. We classify such credit balances as accounts payable in our consolidated balance sheets as checks presented for payment to these accounts are not payable by our banks under overdraft arrangements, and, therefore, do not represent short-term borrowings. As of December 31, 2020 and 2019, there were net book credit balances of $32.7 million and $50.6 million, respectively, in our primary disbursement accounts that were classified as accounts payable on our consolidated balance sheets.

Concentration of Credit Risk

Financial instruments that potentially subject us to concentrations of credit risk consist of cash and cash equivalents, trade accounts receivable and derivative instruments. We place our cash and cash equivalents with high quality financial institutions. Such balances may be in excess of FDIC insured limits. To manage the related credit exposure, we continually monitor the credit worthiness of the financial institutions where we have deposits. Concentrations of credit risk with respect to trade accounts receivable are limited due to the wide variety of customers and markets in which we provide services, as well as the dispersion of our operations across many geographic areas. We provide services to small-container, large-container, municipal and residential, and other environmental solutions customers in the United States. We perform ongoing credit evaluations of our customers, but generally do not require collateral to support customer receivables. We establish an allowance for doubtful accounts based on various factors including the credit risk of specific customers, age of receivables outstanding, historical trends, economic conditions and other information.

Accounts Receivable, Net

Accounts receivable represent receivables from customers for environmental services, including collection and processing of recyclable materials, collection, transfer, and disposal of solid waste, and other environmental solutions. Our receivables are recorded when billed or when the related revenue is earned and represent claims against third parties that will be settled in cash. The carrying value of our receivables, net of the allowance for doubtful accounts and customer credits, represents their estimated net realizable value.

We establish an allowance for doubtful accounts based on various factors including the age of receivables outstanding, historical trends, economic conditions and other information. We also review outstanding balances on an account-specific basis based on the credit risk of the customer. We determined that all of our accounts receivable share similar risk characteristics. We monitor our credit exposure on an ongoing basis and assess whether assets in the pool continue to display similar risk characteristics. We perform ongoing credit evaluations of our customers, but generally do not require collateral to support customer receivables.

The following table reflects the activity in our allowance for doubtful accounts for the years ended December 31:

	2020	2019	2018
Balance at beginning of year	$ 34.0	$ 34.3	$ 38.9
Additions charged to expense	27.8	34.0	34.8
Accounts written-off	(27.1)	(34.3)	(39.4)
Balance at end of year	$ 34.7	$ 34.0	$ 34.3

Restricted Cash and Marketable Securities

As of December 31, 2020, we had $149.1 million of restricted cash and marketable securities of which $117.6 million supports our insurance programs for workers' compensation, commercial general liability, and commercial auto liability. Additionally, we obtain funds through the issuance of tax-exempt bonds for the purpose of financing qualifying expenditures at our landfills, transfer stations, collection and recycling processing centers. The funds are deposited directly into trust accounts by the bonding authorities at the time of issuance. As the use of these funds is contractually restricted, and we do not have the ability to use these funds for general operating purposes, they are classified as restricted cash and marketable securities in our consolidated balance sheets.

In the normal course of business, we may be required to provide financial assurance to governmental agencies and a variety of other entities in connection with municipal residential collection contracts, closure or post-closure of landfills, environmental remediation, environmental permits, and business licenses and permits as a financial guarantee of our performance. At several of our landfills, we satisfy financial assurance requirements by depositing cash into restricted trust funds or escrow accounts.

Property and Equipment

We record property and equipment at cost. Expenditures for major additions and improvements to facilities are capitalized, while maintenance and repairs are charged to expense as incurred. When property is retired or otherwise disposed, the related cost and accumulated depreciation are removed from the accounts and any resulting gain or loss is reflected in the consolidated statements of income.

We revise the estimated useful lives of property and equipment acquired through business acquisitions to conform with our policies. We depreciate assets over their estimated useful lives using the straight-line method. We assume no salvage value for our depreciable property and equipment. The estimated useful lives of our property and equipment are as follows:

Buildings and improvements	7 - 40 years
Vehicles	5 - 20 years
Landfill equipment	5 - 7 years
Other equipment	3 - 25 years
Furniture and fixtures	10 years

Landfill development costs also are included in property and equipment. Landfill development costs include direct costs incurred to obtain landfill permits and direct costs incurred to acquire, construct and develop sites, as well as final capping, closure and post-closure assets. These costs are amortized or depleted based on consumed airspace. All indirect landfill development costs are expensed as incurred. For additional information, see Note 8, *Landfill and Environmental Costs*.

Capitalized Interest

We capitalize interest on all landfill cell construction and other construction or development projects. Interest is capitalized on qualified assets while they undergo activities to ready them for their intended use. Capitalization of interest ceases once an asset is placed into service or if construction activity is suspended for more than a brief period of time. Our interest capitalization rate is based on our weighted average cost of indebtedness. Interest capitalized was $6.2 million, $7.2 million and $6.8 million for the years ended December 31, 2020, 2019, and 2018, respectively.

Fair Value of Financial Instruments

Our financial instruments include cash and cash equivalents, restricted cash and marketable securities, interest rate hedges and other derivatives, long-term debt, and assets in our defined benefit pension plan. Accounting standards include disclosure requirements around fair values used for certain financial instruments and establish a fair value hierarchy. The hierarchy prioritizes valuation inputs into three levels based on the extent to which inputs used in measuring fair value are observable in the market. Each fair value measurement is reported in one of three levels:

- Level 1 – inputs are based upon unadjusted quoted prices for identical instruments traded in active markets.
- Level 2 – inputs are based upon quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, and model-based valuation techniques for which all significant assumptions are observable in the market or can be corroborated by observable market data for substantially the full term of the assets or liabilities.
- Level 3 – inputs are generally unobservable and typically reflect management’s estimates of assumptions that market participants would use in pricing the asset or liability. The fair values are therefore determined using model-based

techniques that include option pricing models, discounted cash flow models, and similar techniques.

See Note 12, *Employee Benefit Plans,* and Note 18, *Financial Instruments,* for fair value disclosures related to our defined benefit pension plan investments and financial instruments, respectively.

Investments Other Than Derivatives

Investments other than derivatives primarily include money market funds, common stock, mutual funds, real estate investment trusts, U.S. government and agency securities, municipal and corporate bonds, and foreign government bonds. In general, and where applicable, we use quoted prices in active markets for identical assets or liabilities to determine fair value. This pricing methodology applies to our Level 1 investments, such as money market funds, common stock and certain mutual funds. If quoted prices in active markets for identical assets or liabilities are not available to determine fair value, then we use quoted prices for similar assets and liabilities or inputs other than the quoted prices that are observable either directly or indirectly. These investments are included in Level 2 and consist primarily of corporate bonds, foreign government bonds, real estate investment trusts and certain agency securities.

Derivative Financial Instruments

We use derivative financial instruments to manage our risk associated with changing interest rates by creating offsetting market exposures. We use interest rate swap agreements designated as fair value hedges to manage risk associated with fluctuations in interest rates. In prior periods, we entered into multiple agreements designated as cash flow hedges to lock interest rates in anticipation of future debt issuance.

All derivatives are measured at fair value and recognized in the balance sheet as assets or liabilities, as appropriate. For derivative instruments designated as fair value hedges, to the extent they are effective, they are included as an adjustment to long-term debt in our consolidated balance sheets. Changes in fair value of the ineffective portions are recognized currently in earnings. For derivatives designated as cash flow hedges, changes in fair value of the effective portions of derivative instruments are reported in stockholders' equity as components of other comprehensive income until the forecasted transaction occurs or is not probable of occurring. When the forecasted transaction occurs or is not probable of occurring, the realized net gain or loss is then recognized in the consolidated statements of income. Changes in fair value of the ineffective portions are recognized currently in earnings.

The fair values of our derivative instruments are determined using standard valuation models with assumptions about prices and other relevant information based on those observed in the underlying markets (Level 2 in the fair value hierarchy). The estimated fair values of derivatives used to hedge risks fluctuate over time and should be viewed in relation to the underlying hedged transactions.

Landfill and Environmental Costs

Life Cycle Accounting

We use life-cycle accounting and the units-of-consumption method to recognize certain landfill costs over the life of the site. In life cycle accounting, all current and future capitalized costs to acquire and construct a site are calculated, and charged to expense based on the consumption of cubic yards of available airspace.

Costs and airspace estimates are developed at least annually by engineers. We use these estimates to adjust the rates we use to deplete capitalized costs. Changes in these estimates primarily relate to changes in available airspace, inflation and applicable regulations. Changes in available airspace include, but are not limited to, changes due to the addition of airspace attributable to probable expansion areas, airspace consumed and changes in engineering estimates.

Probable Expansion Airspace

We classify landfill disposal capacity as either permitted (having received the final permit from the applicable regulatory agency) or as probable expansion airspace. Before airspace included in an expansion area is determined to be probable expansion airspace and, therefore, is included in our calculation of total available disposal capacity, all of the following criteria must be met:

- We own the land associated with the expansion airspace or control it pursuant to an option agreement;
- We are committed to supporting the expansion project financially and with appropriate resources;
- There are no identified fatal flaws or impediments associated with the project, including political impediments;
- Progress is being made on the project;

- The expansion is attainable within a reasonable time frame; and
- We believe it is likely the expansion permit will be received.

Upon meeting our expansion criteria, the rates used at each applicable landfill to expense costs to acquire, construct, cap, close and maintain a site during the post-closure period are adjusted to include both the probable expansion airspace and the additional costs to be capitalized or accrued associated with that expansion airspace.

We have identified three steps that landfills generally follow to obtain expansion permits. These steps are as follows:

- Obtaining approval from local authorities;
- Submitting a permit application to state authorities; and
- Obtaining permit approval from state authorities.

We continually monitor our progress toward obtaining permits for each of our sites with probable airspace. If we determine that a landfill expansion area no longer meets our criteria, the probable expansion airspace is removed from the landfill's total available capacity and the rates used at the landfill to deplete costs to acquire, construct, cap, close and maintain a site during the post-closure period are adjusted accordingly. In addition, any amounts capitalized for the probable expansion airspace are charged to expense in the period in which it is determined that the criteria are no longer met.

Capitalized Landfill Costs

Capitalized landfill costs include expenditures for land, permitting, cell construction and environmental structures. Capitalized permitting and cell construction costs are limited to direct costs relating to these activities, including legal, engineering and construction costs associated with excavation, natural and synthetic liners, construction of leachate collection systems, installation of methane gas collection and monitoring systems, installation of groundwater monitoring wells and other costs associated with the development of the site. Interest is capitalized on landfill construction projects while the assets are undergoing activities to ready them for their intended use. Capitalized landfill costs also include final capping, closure and post-closure assets and are depleted as airspace is consumed using the units-of-consumption method.

Costs related to acquiring land, excluding the estimated residual value of unpermitted, non-buffer land, and costs related to permitting and cell construction are depleted as airspace is consumed using the units-of-consumption method.

Capitalized landfill costs also may include an allocation of purchase price paid for landfills. For landfills purchased as part of a group of assets, the purchase price assigned to the landfill is determined based on the estimated fair value of the landfill. If the landfill meets our expansion criteria, the purchase price is further allocated between permitted airspace and expansion airspace based on the respective ratios to total available airspace. Landfill purchase price is amortized using the units-of-consumption method over the total available airspace, including probable expansion airspace, where appropriate.

Final Capping, Closure and Post-Closure Costs

Final capping

We have future obligations for final capping, closure and post-closure costs with respect to the landfills we own or operate as set forth in applicable landfill permits. The permit requirements are based on the Subtitle C and Subtitle D regulations of the Resource Conservation and Recovery Act, as implemented and applied on a state-by-state basis. We define final capping as activities required to permanently cover a portion of a landfill that has been completely filled with waste. Final capping typically includes installing flexible membrane and geosynthetic clay liners, drainage and compact soil layers, and topsoil, and is constructed over an area of the landfill where total airspace capacity has been consumed and waste disposal operations have ceased. These final capping activities occur in phases as needed throughout the operating life of a landfill as specific areas are filled to capacity and the final elevation for that specific area is reached in accordance with the provisions of the operating permit. We consider final capping events to be discrete activities that are recognized as asset retirement obligations separately from other closure and post-closure obligations. As a result, we use a separate rate per ton for recognizing the principal amount of the liability and related asset associated with each capping event. We amortize the asset recorded pursuant to this approach as waste volume related to the capacity covered by the capping event is placed into the landfill based on the consumption of cubic yards of available airspace.

Closure and post-closure

Closure and post-closure activities occur after the entire landfill ceases to accept waste and closes. These activities involve methane gas control, leachate management and groundwater monitoring, surface water monitoring and control, and other operational and maintenance activities that occur after the site ceases to accept waste. Obligations associated with monitoring

and controlling methane gas migration and emissions are set forth in applicable landfill permits and these requirements are based on the provisions of the Clean Air Act. The post-closure period generally runs for 30 years after final site closure for municipal solid waste landfills and a shorter period for construction and demolition landfills and inert landfills. We recognize asset retirement obligations and the related amortization expense for closure and post-closure (excluding obligations for final capping) using the units-of-consumption method over the total remaining capacity of the landfill, including probable expansion airspace, where appropriate.

Estimated future expenditures

Estimates of future expenditures for final capping, closure and post-closure are developed at least annually by engineers. Management reviews these estimates and our operating and accounting personnel use them to adjust the rates used to capitalize and amortize these costs. These estimates involve projections of costs that will be incurred during the remaining life of the landfill for final capping activities, after the landfill ceases operations and during the legally required post-closure monitoring period. As of December 31, 2020, we had 128 closed landfills.

Fair value measurements

In general, we engage third parties to perform most of our final capping, closure and post-closure activities. Accordingly, the fair value of these activities is based on quoted and actual prices paid for similar work. We also perform some of our final capping, closure and post-closure activities using internal resources. Where we expect internal resources to be used to fulfill an asset retirement obligation, we add a profit margin to the estimated cost of such services to better reflect their fair value. If we perform these services internally, the added profit margin is recognized as a component of operating income in the period the obligation is settled.

Our estimates of costs to discharge asset retirement obligations for landfills are developed in today's dollars. These costs are inflated each year to reflect a normal escalation of prices up to the year they are expected to be paid. We used a 1.7% inflation rate for the years ended December 31, 2020, 2019, and 2018, which is based on the ten-year historical moving average increase of the U.S. Consumer Price Index, and is the rate used by the largest environmental services industry participants. These estimated costs are then discounted to their present values using a credit-adjusted, risk-free interest rate.

Changes in assets retirement obligations

A liability for an asset retirement obligation is recognized in the period in which it is incurred and is initially measured at fair value. The offset to the liability is capitalized as part of the carrying amount of the related long-lived asset. Changes in the liabilities due to revisions to estimated future cash flows are recognized by increasing or decreasing the liabilities with the offsets adjusting the carrying amounts of the related long-lived assets, and may also require immediate adjustments to amortization expense in the consolidated statements of income. Upward revisions in the amount of undiscounted estimated cash flows used to record a liability are discounted using the credit-adjusted, risk-free interest rate in effect at the time of the change. Downward revisions in the amount of undiscounted estimated cash flows used to record a liability are discounted using the credit-adjusted, risk-free rate that existed when the original liability was recognized.

Changes in asset retirement obligations due to the passage of time are measured by recognizing accretion expense in a manner that results in a constant effective interest rate being applied to the average carrying amount of the liability. The effective interest rate used to calculate accretion expense is our credit-adjusted, risk-free interest rate in effect at the time the liabilities were recorded.

We review our calculations with respect to landfill asset retirement obligations at least annually. If there is a significant change in the facts and circumstances related to a landfill during the year, we will review our calculations for the landfill as soon as practical after the change has occurred.

Landfill operating expenses

Costs associated with daily maintenance activities and environmental compliance during the operating life of the landfill are expensed as incurred. These costs include, among other things, leachate treatment and disposal, methane gas and groundwater monitoring and systems maintenance, interim cap maintenance, costs associated with the application of daily cover materials, and the legal and administrative costs of ongoing environmental compliance.

Environmental Liabilities

We are subject to an array of laws and regulations relating to the protection of the environment, and we remediate sites in the ordinary course of our business. Under current laws and regulations, we may be responsible for environmental remediation at sites that we either own or operate, including sites that we have acquired, or sites where we have (or a company that we have acquired has) delivered waste. Our environmental remediation liabilities primarily include costs associated with remediating

groundwater, surface water and soil contamination, as well as controlling and containing methane gas migration and the related legal costs. To estimate our ultimate liability at these sites, we evaluate several factors, including the nature and extent of contamination at each identified site, the required remediation methods, timing of expenditures, the apportionment of responsibility among the potentially responsible parties and the financial viability of those parties. We accrue for costs associated with environmental remediation obligations when such costs are probable and reasonably estimable in accordance with accounting for loss contingencies. We periodically review the status of all environmental matters and update our estimates of the likelihood of and future expenditures for remediation as necessary. Changes in the liabilities resulting from these reviews are recognized currently in earnings in the period in which the adjustment is known. Adjustments to estimates are reasonably possible in the near term and may result in changes to recorded amounts. With the exception of those obligations assumed in certain business combinations, environmental obligations are recorded on an undiscounted basis. Adjustments arising from changes in amounts and timing of estimated costs and settlements may result in increases or decreases in these obligations and are calculated on a discounted basis as they were initially estimated on a discounted basis. These adjustments are charged to operating income when they are known. We perform a comprehensive review of our environmental obligations annually and also review changes in facts and circumstances associated with these obligations at least quarterly. We have not reduced the liabilities we have recorded for recoveries from other potentially responsible parties or insurance companies.

Business Combinations

We acquire businesses in the environmental services industry as part of our growth strategy. Businesses are included in the consolidated financial statements from the date of acquisition.

We recognize, separately from goodwill, the identifiable assets acquired and liabilities assumed at their estimated acquisition-date fair values. We measure and recognize goodwill as of the acquisition date as the excess of: (1) the aggregate of the fair value of consideration transferred, the fair value of any non-controlling interest in the acquiree (if any) and the acquisition date fair value of our previously held equity interest in the acquiree (if any), over (2) the fair value of assets acquired and liabilities assumed. If information about facts and circumstances existing as of the acquisition date is incomplete by the end of the reporting period in which a business combination occurs, we report provisional amounts for the items for which the accounting is incomplete. The measurement or allocation period ends once we receive the information we are seeking; however, this period will generally not exceed one year from the acquisition date. Any material adjustments recognized during the measurement period will be reflected retrospectively in the consolidated financial statements of the subsequent period. We recognize third-party transaction related costs as expense currently in the period in which they are incurred.

Goodwill and Other Intangible Assets

During the eleven months ended November 30, 2020, we managed and evaluated our operations through two field groups: Group 1 and Group 2. In December 2020, we began evaluating our operations through three reporting units, referred to as Group 1, Group 2, and environmental solutions, and determined that no goodwill was allocable to the environmental solutions reporting unit.

We evaluate goodwill for impairment annually as of October 1st, or when an indicator of impairment exists. We compare the fair value of our reporting units to their carrying value, including goodwill. We assign assets and liabilities from our corporate entities to our three reporting units to the extent that such assets or liabilities relate to the cash flows of the reporting unit and would be included in determining the reporting unit’s fair value. We recognize an impairment charge for the amount by which the carrying value exceeds a reporting unit’s fair value, not to exceed the total amount of recorded goodwill, as applicable. To determine a reporting unit's fair value, we primarily use discounted future cash flows and operating results based on a comparative multiple of earnings or revenues.

Significant estimates used in our fair value calculation using discounted future cash flows include: (1) estimates of future revenue and expense growth by reporting unit, which we estimate to be approximately 3% annually; (2) future estimated effective tax rates, which we estimate to be 27%; (3) future estimated capital expenditures and future required investments in working capital; (4) estimated discount rates, which we estimate to range between 6% and 8%; and (5) the future terminal value of the reporting unit, which is based on its ability to exist into perpetuity. Significant estimates used in the fair value calculation utilizing market value multiples include: (a) estimated future growth potential of the reporting unit; (b) estimated multiples of revenue or earnings a willing buyer is likely to pay; and (c) the estimated control premium a willing buyer is likely to pay.

In addition, we evaluate a reporting unit for impairment if events or circumstances change between annual tests, indicating a possible impairment. Examples of such events or circumstances include: (1) a significant adverse change in legal factors or in the business climate; (2) an adverse action or assessment by a regulator; (3) a more likely than not expectation that a reporting unit or a significant portion thereof will be sold; (4) continued or sustained losses at a reporting unit; (5) a significant decline in our market capitalization as compared to our book value; or (6) we conclude that we may not recover a significant asset group within the reporting unit.

In preparing our annual test for impairment as of October 1, 2020, we determined that our indicated fair value of total invested capital exceeded our total market capitalization for Group 1 and Group 2 reporting units. We believe one of the primary reconciling differences between the indicated fair value of total invested capital and our total market capitalization is due to a control premium. We believe the control premium represents the value a market participant could extract as savings or synergies by obtaining control.

As of October 1, 2020, we determined that the indicated fair value of our Group 1 and Group 2 reporting units exceeded their carrying value by approximately 150% on average and, therefore, we noted no indicators of impairment at our reporting units. As no goodwill was allocated to the environmental solutions reporting unit, we did not test for goodwill impairment in December 2020.

Our reporting units are comprised of several vertically integrated businesses. When an individual business within an integrated reporting unit is divested, goodwill is allocated to that business based on its fair value relative to the fair value of its reporting unit.

Other intangible assets include values assigned to customer relationships, non-compete agreements and trade names and are amortized generally on a straight-line basis over periods ranging from 1 to 16 years.

Asset Impairments

We continually consider whether events or changes in circumstances have occurred that may warrant revision of the estimated useful lives of our long-lived assets (other than goodwill) or whether the remaining balances of those assets should be evaluated for possible impairment. Long-lived assets include, for example, capitalized landfill costs, other property and equipment, and identifiable intangible assets.

Events or changes in circumstances that may indicate that an asset may be impaired include the following:

- A significant decrease in the market price of an asset or asset group;
- A significant adverse change in the extent or manner in which an asset or asset group is being used or in its physical condition;
- A significant adverse change in legal factors or in the business climate that could affect the value of an asset or asset group, including an adverse action or assessment by a regulator;
- An accumulation of costs significantly in excess of the amount originally expected for the acquisition or construction of a long-lived asset;
- A current period operating or cash flow loss combined with a history of operating or cash flow losses or a projection or forecast that demonstrates continuing losses associated with the use of a long-lived asset or asset group;
- A current expectation that, more likely than not, a long-lived asset or asset group will be sold or otherwise disposed of significantly before the end of its previously estimated useful life; or
- An impairment of goodwill at a reporting unit.

There are certain indicators listed above that require judgment and understanding of the environmental services industry when applied to landfill development or expansion. For example, a regulator may initially deny a landfill expansion permit application though the expansion permit is ultimately granted. In addition, management may periodically divert waste from one landfill to another to conserve remaining permitted landfill airspace. Therefore, certain events could occur in the ordinary course of business and not necessarily be considered indicators of impairment due to the unique nature of the environmental services industry.

If indicators of impairment exist, the asset or asset group is reviewed to determine whether its recoverability is impaired. We assess the recoverability of the asset or asset group by comparing its carrying value to an estimate (or estimates) of its undiscounted future cash flows over its remaining life. If the estimated undiscounted cash flows are not sufficient to recover the carrying value of the asset or asset group, we measure an impairment loss as the amount by which the carrying amount of the asset exceeds its fair value. The loss is recorded in the consolidated statements of income in the period in which such impairment is identified. Estimating future cash flows requires significant judgment, and our projections of future cash flows and remaining useful lives may vary materially from actual results.

Insurance Reserves

Our insurance programs for workers' compensation, commercial general and auto liability, environmental and remediation liability, and employee-related health care benefits are subject to high deductible insurance policies. Accruals for insurance

reserves are based on claims filed and estimates of claims incurred but not reported. We consider our past claims experience, including both frequency and settlement amount of claims, in determining these estimates. It is possible that recorded reserves may not be adequate to fund the future payment of claims. Adjustments, if any, to estimates recorded resulting from ultimate claim payments will be reflected in the consolidated statements of income in the periods in which such adjustments are known. In general, our insurance reserves are recorded on an undiscounted basis; however, the insurance liabilities we assumed in business combinations are recorded at estimated fair value, and therefore have been discounted to present value based on our estimate of the timing of the related cash flows.

Costs Associated with Exit Activities

We record costs associated with exit activities such as employee termination benefits that represent a one-time benefit when management approves and commits to a plan of termination, and communicates the termination arrangement to the employees, or over the future service period, if any. Other costs associated with exit activities may include contract termination costs, including facility and employee relocation costs.

Contingent Liabilities

We are subject to various legal proceedings, claims and regulatory matters, the outcomes of which are subject to significant uncertainty. In general, we determine whether to disclose or accrue for loss contingencies based on an assessment of whether the risk of loss is remote, reasonably possible or probable, and whether it can be reasonably estimated. We assess our potential liability relating to litigation and regulatory matters based on information available to us. Management develops its assessment based on an analysis of possible outcomes under various strategies. We accrue for loss contingencies when such amounts are probable and reasonably estimable. If a contingent liability is only reasonably possible, we disclose the potential range of the loss, if estimable. Contingent liabilities recorded in purchase accounting are recorded at their fair values. These fair values may be different from the values we would have otherwise recorded, had the contingent liability not been assumed as part of an acquisition of a business.

Accumulated Other Comprehensive Income

Accumulated other comprehensive income is a component of stockholders' equity and includes the effective portion of the net changes in fair value of our cash flow hedges, amortization of our interest rate locks, and certain adjustments to liabilities associated with our employee defined benefit pension plan liabilities, net of tax.

Revenue Recognition

We generally provide services under contracts with municipalities or individual customers. Municipal and small-container contracts are generally long-term and often have renewal options. Advance billings are recorded as deferred revenue, and revenue is recognized over the period services are provided.

We recognize revenue when control is transferred to the customer, generally at the time we provide a service. Revenue is measured as the amount of consideration we expect to receive in exchange for providing a service. We make certain payments to our customers, including payments to our municipal customers or commodity rebates to customers in our recycling business, which reduce the amount of revenue we recognize.

Income Taxes

We account for income taxes under the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements. Under this method, we record deferred income taxes to reflect the effects of temporary differences between the carrying amounts of assets and liabilities and their tax bases using enacted tax rates that we expect to be in effect when the taxes are actually paid or recovered. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the period that includes the enactment date.

We record net deferred tax assets to the extent we believe these assets will more likely than not be realized. In making these determinations, we consider all available positive and negative evidence, including scheduled reversals of deferred tax liabilities, tax planning strategies, projected future taxable income and recent financial operating results. The weight given to the positive and negative evidence is commensurate with the extent such evidence can be objectively verified. If we determine that we would be able to realize a deferred income tax asset in the future in excess of its net recorded amount, we would make an adjustment to the valuation allowance, which would reduce the provision for income taxes.

We record uncertain tax positions in accordance with ASC 740. A tax benefit from an uncertain tax position may be recognized when it is more likely than not that the position will be sustained upon examination, including resolution of any related appeals

or litigation processes, based on the technical merits. Income tax positions must meet a more-likely-than-not recognition threshold at the effective date to be recognized.

We recognize interest and penalties related to uncertain tax positions in the provision for income taxes in the accompanying consolidated statements of income. Accrued interest and penalties are included in other accrued liabilities, deferred income taxes and other long-term tax liabilities in the consolidated balance sheets.

We use the flow-through method to account for investment tax credits earned on eligible development expenditures. Under this method, the investment tax credits are recognized as a reduction to income tax expense in the year they are earned.

Defined Benefit Pension Plan

We currently have one qualified defined benefit pension plan, the BFI Retirement Plan (the Plan). The Plan covers certain current and former employees of Allied in the United States, including some employees subject to collective bargaining agreements. The Plan's benefit formula is based on a percentage of compensation as defined in the Plan document. However, the benefits of all current Plan participants are frozen.

Our pension contributions are made in accordance with funding standards established by the Employee Retirement Income Security Act of 1974 and the Internal Revenue Code, as amended by the Pension Protection Act of 2006. The Plan's assets have been invested as determined by our Employee Benefits Committee. The Employee Benefits Committee reviews and adjusts the Plan's asset allocation as deemed necessary.

The benefit obligation and associated income or expense related to the Plan are determined using annually established assumptions for discount rates, expected rates of return and mortality rates. We determine the discount rate based on a model that matches the timing and amount of expected benefit payments to maturities of high quality bonds priced as of the pension plan measurement date. When that timing does not correspond to a published high-quality bond rate, our model uses an expected yield curve to determine an appropriate current discount rate. The yields on the bonds are used to derive a discount rate for the liability. In developing our expected rate of return assumption, we evaluate long-term expected and historical actual returns on the Plan assets, giving consideration to the asset mix and the anticipated duration of our Plan obligations. The average rate of compensation increase reflects our expectations of average pay increases over the period benefits are earned. Our assumptions are reviewed annually and adjusted as deemed necessary.

Equity-Based Compensation Plans

Compensation expense associated with our restricted share units is recognized ratably over the vesting period, or to the employee's retirement eligible date, if earlier. The fair value of restricted share units is based on the closing market price on the date of the grant.

Compensation expense associated with our performance shares that vest based on future performance targets is measured using the fair value of our common stock at the grant date for the stock-settled, equity classified awards, and the fair value of our common stock at the end of each reporting period for the cash-settled, liability classified awards. Compensation expense is recognized ratably over the performance period based on our estimated achievement of the established performance criteria. Compensation expense is only recognized for those awards that we expect to vest, which we estimate based on an assessment of the probability that the performance criteria will be achieved.

Income tax related cash flows resulting from equity-based payments are reported as a component of operating activities.

Share Repurchases

Share repurchases under our share repurchase authorization may be made through open market purchases or privately negotiated transactions at the current market prices. From time-to-time, we return treasury shares acquired through share repurchases to the status of authorized but unissued. Our accounting policy is to deduct the par value from common stock and to reflect any excess of cost over par value as a deduction from additional paid-in capital.

Leases

We lease property and equipment in the ordinary course of business under various lease agreements. The most significant lease obligations are for real property and equipment specific to our industry, including property operated as a landfill or transfer station and operating equipment. Our leases have varying terms. Some may include renewal or purchase options, escalation clauses, restrictions, penalties or other obligations that we consider in determining minimum lease payments. Our lease terms include options to renew the lease when it is reasonably certain that we will exercise the option.

Certain leases require payments that are variable in nature based on volume measurements, e.g. a fixed rate per ton at our landfills. In addition, certain rental payments are adjusted annually based on changes in an underlying base index such as a

consumer price index. Variable lease payments are recognized in our consolidated statements of income in the period incurred. Our lease agreements do not contain any material residual value guarantees or material restrictive covenants. We generally account for lease components separately from non-lease components.

Leases are classified as either operating leases or finance leases, as appropriate. Leases with an initial term of 12 months or less are not recorded on our consolidated balance sheet.

Operating Leases

Many of our leases are operating leases. Operating lease classification generally can be attributed to either (1) relatively low fixed minimum lease payments (including, for example, real property lease payments that are not fixed and vary based on the volume of material we receive or process), or (2) minimum lease terms that are shorter than the asset's economic useful life. We expect that, in the ordinary course of business, our operating leases will be renewed, replaced by other leases, or replaced with capital expenditures. We recognize rent expense for these leases on a straight-line basis over the lease term.

We recognize a right-of-use liability and right-of-use asset for leases classified as operating leases in our consolidated balance sheet upon lease commencement. The right-of-use liability represents the present value of the remaining lease payments. An implicit rate is often not readily available for these leases. As such, we use our incremental borrowing rate at the commencement date to determine the present value of the lease payments. Our incremental borrowing rate represents the rate of interest that we would have to pay to borrow on a collateralized basis over a similar term in a similar economic environment. In addition, we recognize a corresponding right-of-use asset, which represents our right to use an underlying asset for the lease term. The right-of-use asset is adjusted for certain favorable or unfavorable leases recognized through acquisition, prepaid or accrued rent, asset impairments and lease incentives, including but not limited to cash incentives, rent abatement or leasehold improvements paid by the lessor.

Finance Leases

We capitalize assets acquired under finance leases at lease commencement and amortize them to depreciation expense over the lesser of the useful life of the asset or the lease term on either a straight-line or a units-of-consumption basis, depending on the asset leased. We record the present value of the related lease payments as a debt obligation. Our finance lease liabilities relate primarily to real property, including certain long-term landfill operating agreements that require minimum lease payments with offsetting finance lease assets recorded as part of the landfill development costs.

Related Party Transactions

It is our policy that transactions with related parties must be on terms that, on the whole, are no less favorable than those that would be available from unaffiliated parties.

New Accounting Pronouncements

Accounting Standards Adopted

Effective January 1, 2020, we adopted the following accounting standard updates (ASUs) as issued by the Financial Accounting Standards Board (FASB):

ASU		Effective Date
ASU 2016-13	Credit Losses (Topic 326)	January 1, 2020
ASU 2018-13	Disclosure Framework—Changes to the Disclosure Requirements for Fair Value Measurement (Topic 820)	January 1, 2020

Credit Losses

Effective January 1, 2020, we adopted ASU 2016-13, *Credit Losses Topic 326* (ASU 2016-13 or the new credit losses standard) using the modified retrospective approach. The comparative periods have not been restated and continue to be reported under the accounting standard in effect for those periods. The new credit losses standard amends the impairment model to use a methodology that reflects expected credit losses and requires consideration of a broader range of reasonable and supportable information to inform credit loss estimates. Our adoption of ASU 2016-13 did not have a material impact on our consolidated financial statements for the year ended December 31, 2020, and we did not recognize a cumulative effect adjustment to retained earnings as of January 1, 2020.

To assist in quantifying the impact on our consolidated financial statements and supplementing our existing disclosures, we identified financial assets measured at an amortized cost basis in our consolidated balance sheet and evaluated the collectability considerations based on an expected credit loss assessment. We are exposed to credit losses primarily through customer

receivables generated from the processing and sale of certain recyclable materials as well as the collection, transfer and disposal of non-hazardous solid waste, and other environmental solutions we provide our customers.

For additional details, refer to our accounting policy related to Accounts Receivable, Net above.

Fair Value Measurement

Effective January 1, 2020, we adopted the FASB's ASU 2018-13, *Fair Value Measurement (Topic 820) Disclosure Framework—Changes to the Disclosure Requirements for Fair Value Measurement* (ASU 2018-13). ASU 2018-13 intends to increase the consistency and comparability of fair value measurements used in financial reporting through eliminating, modifying, and adding certain disclosure requirements within Topic 820. The adoption of ASU 2018-13 did not have a material impact on our consolidated financial statements for the year ended December 31, 2020.

Accounting Standards Issued but not yet Adopted as of December 31, 2020

Changes to the Disclosure Requirements for Defined Benefit Plans

In August 2018, the FASB issued ASU 2018-14, *Compensation—Retirement Benefits—Defined Benefit Plans—General (Subtopic 715-20) Disclosure Framework—Changes to the Disclosure Requirements for Defined Benefit Plans* (ASU 2018-14). ASU 2018-14 removes disclosures that are no longer considered cost beneficial, clarifies the specific requirements of disclosures, and adds disclosure requirements identified as relevant. ASU 2018-14 is effective for public business entities for fiscal years beginning after December 15, 2020, including interim periods within that fiscal year. As such, Republic adopted the standard beginning January 1, 2021. Our adoption of this guidance did not have a material impact on our consolidated financial statements.

Simplifying the Accounting for Income Taxes

In December 2019, the FASB issued ASU 2019-12, *Income Taxes (Topic 740): Simplifying the Accounting for Income Taxes* (ASU 2019-12). ASU 2019-12 attempts to simplify aspects of accounting for franchise taxes and enacted changes in tax laws or rates, and clarifies the accounting for transactions that result in a step-up in the tax basis of goodwill. ASU 2019-12 is effective for public business entities for fiscal years beginning after December 15, 2020, including interim periods within that fiscal year. As such, Republic adopted the standard beginning January 1, 2021. Our adoption of this guidance did not have a material impact on our consolidated financial statements.

Reference Rate Reform

In March 2020, the FASB issued ASU 2020-04, Reference Rate Reform (Topic 848): *Facilitation of the Effects of Reference Rate Reform on Financial Reporting* (ASU 2020-04). ASU 2020-04 provides optional guidance for a limited period of time to ease the potential burden in accounting for (or recognizing the effects of) reference rate reform on financial reporting. The amendments in ASU 2020-04 provide optional expedients and exceptions for applying generally accepted accounting principles to contracts, hedging relationships, and other transactions affected by reference rate reform if certain criteria are met. ASU 2020-04 is effective for all entities as of March 12, 2020 through December 31, 2022. We are currently assessing the effect this guidance may have on our consolidated financial statements.

3. BUSINESS ACQUISITIONS, INVESTMENTS AND RESTRUCTURING CHARGES

We acquired various environmental services businesses during the years ended December 31, 2020 and 2019. The purchase price paid for these business acquisitions and the allocations of the purchase price follows:

	2020	2019
Purchase price:		
Cash used in acquisitions, net of cash acquired	$ 598.8	$ 430.0
Contingent consideration	—	2.5
Holdbacks	14.1	15.8
Fair value, future minimum lease payments	0.3	5.8
Fair value of operations surrendered	—	9.5
Total	$ 613.2	$ 463.6
Allocated as follows:		
Accounts receivable	$ 14.9	$ 19.5
Property and equipment	124.3	154.5
Operating right-of-use lease assets	0.2	18.1
Other assets	1.1	1.9
Inventory	1.5	1.0
Accounts payable	(3.8)	(7.2)
Environmental remediation liabilities	(1.7)	(1.9)
Closure and post-closure liabilities	(0.8)	(0.3)
Operating right-of-use lease liabilities	(0.2)	(18.4)
Other liabilities	(13.4)	(3.4)
Fair value of tangible assets acquired and liabilities assumed	122.1	163.8
Excess purchase price to be allocated	$ 491.1	$ 299.8
Excess purchase price to be allocated as follows:		
Other intangible assets	$ 60.7	$ 47.2
Goodwill	430.4	252.6
Total allocated	$ 491.1	$ 299.8

The purchase price allocations are preliminary and are based on information existing at the acquisition dates. Accordingly, the purchase price allocations are subject to change. Substantially all of the goodwill and intangible assets recorded for acquisitions in 2020 and 2019 was deductible for tax purposes.

These acquisitions are not material to the Company's results of operations, individually or in the aggregate. As a result, no pro forma financial information is provided.

Investments

In 2020 and 2019, we acquired non-controlling equity interests in certain limited liability companies that qualified for investment tax credits under Section 48 of the Internal Revenue Code. In exchange for our non-controlling interests, we made capital contributions of approximately $143 million and $129 million, which were recorded to other long-term assets in our December 31, 2020 and 2019 consolidated balance sheets, respectively. During 2020 and 2019, we reduced the carrying value of these investments by $118.2 million and $112.2 million, respectively, as a result of tax credits allocated to us, cash distributions, and our share of income and loss pursuant to the terms of the limited liability company agreements. Additionally, our 2020 and 2019 tax provisions reflect a benefit of approximately $100 million and $84 million, respectively, due to the tax credits related to these investments. For further discussion of the income tax benefits, see Note 11, *Income Taxes*.

Restructuring Charges

In 2019, we incurred costs related to the redesign of certain back-office software systems, which continued into 2020. In addition, in July 2020, we eliminated certain back-office support positions in response to a decline in the underlying demand for services resulting from the COVID-19 pandemic. During 2020, we incurred restructuring charges of $20.0 million which primarily related to these restructuring efforts. During 2019, we incurred restructuring charges of $14.2 million, which

primarily related to the redesign of certain of our back-office software systems. We paid $15.5 million and $10.6 million during 2020 and 2019, respectively, related to these restructuring efforts.

In 2021, we expect to incur additional restructuring charges of approximately $15 million to $20 million primarily related to the redesign of certain of our back-office software systems. Substantially all of these restructuring charges will be recorded in our corporate entities and other segment.

4. PROPERTY AND EQUIPMENT, NET

A summary of property and equipment, net as of December 31 follows:

	2020	2019
Land	$ 467.1	$ 448.3
Non-depletable landfill land	166.3	170.5
Landfill development costs	7,991.7	7,474.7
Vehicles and equipment	8,119.0	7,766.0
Buildings and improvements	1,402.5	1,342.6
Construction-in-progress – landfill	303.8	366.8
Construction-in-progress – other	107.4	87.7
	$ 18,557.8	$ 17,656.6
Less: accumulated depreciation, depletion and amortization		
Landfill development costs	$ (4,249.5)	$ (3,968.6)
Vehicles and equipment	(4,953.4)	(4,728.2)
Buildings and improvements	(628.7)	(576.3)
	(9,831.6)	(9,273.1)
Property and equipment, net	$ 8,726.2	$ 8,383.5

Depreciation, amortization and depletion of property and equipment was $1,015.9 million, $985.8 million and $977.0 million for the years ended December 31, 2020, 2019 and 2018, respectively.

5. GOODWILL AND OTHER INTANGIBLE ASSETS, NET

Goodwill

A summary of the activity and balances in goodwill accounts by reporting segment follows:

	Balance as of December 31, 2019	Acquisitions	Divestitures	Adjustments to Acquisitions	Balance as of December 31, 2020
Group 1	$ 6,235.6	$ 171.7	$ —	$ (2.4)	$ 6,404.9
Group 2	5,397.8	258.7	(19.0)	4.0	5,641.5
Corporate entities and other	—	—	—	—	—
Total	$ 11,633.4	$ 430.4	$ (19.0)	$ 1.6	$ 12,046.4

	Balance as of December 31, 2018	Acquisitions	Divestitures	Adjustments to Acquisitions	Balance as of December 31, 2019
Group 1	$ 6,150.6	$ 86.3	$ —	$ (1.3)	$ 6,235.6
Group 2	5,249.5	166.3	(17.9)	(0.1)	5,397.8
Corporate entities and other	—	—	—	—	—
Total	$ 11,400.1	$ 252.6	$ (17.9)	$ (1.4)	$ 11,633.4

Adjustments to acquisitions during the years ended December 31, 2020 and 2019 primarily related to working capital and fixed assets.

Goodwill by reporting segment as of December 31, 2019 and 2018 reflects the transfer of all environmental solutions assets from Group 2 to Corporate entities and other.

Other Intangible Assets, Net

Other intangible assets, net, include values assigned to customer relationships, non-compete agreements and trade names, and are amortized over periods ranging from 1 to 16 years. A summary of the activity and balances by intangible asset type follows:

	Gross Intangible Assets				Accumulated Amortization				Other Intangible Assets, Net as of December 31, 2020
	Balance as of December 31, 2019	Acquisitions	Adjustments and Other	Balance as of December 31, 2020	Balance as of December 31, 2019	Additions Charged to Expense	Adjustments and Other	Balance as of December 31, 2020	
Customer relationships	$ 733.8	$ 54.4	$ (0.1)	$ 788.1	$ (623.0)	$ (16.6)	$ 0.1	$ (639.5)	$ 148.6
Non-compete agreements	45.3	6.3	(0.2)	51.4	(35.3)	(3.9)	0.1	(39.1)	12.3
Other intangible assets	58.2	—	(0.7)	57.5	(45.1)	(0.6)	0.4	(45.3)	12.2
Total	$ 837.3	$ 60.7	$ (1.0)	$ 897.0	$ (703.4)	$ (21.1)	$ 0.6	$ (723.9)	$ 173.1

	Gross Intangible Assets				Accumulated Amortization				Other Intangible Assets, Net as of December 31, 2019
	Balance as of December 31, 2018	Acquisitions	Adjustments and Other	Balance as of December 31, 2019	Balance as of December 31, 2018	Additions Charged to Expense	Adjustments and Other	Balance as of December 31, 2019	
Customer relationships	$ 692.4	$ 41.4	$ —	$ 733.8	$ (607.2)	$ (16.0)	$ 0.2	$ (623.0)	$ 110.8
Non-compete agreements	37.0	7.4	0.9	45.3	(31.5)	(3.8)	—	(35.3)	10.0
Other intangible assets	64.3	—	(6.1)	58.2	(48.5)	(0.8)	4.2	(45.1)	13.1
Total	$ 793.7	$ 48.8	$ (5.2)	$ 837.3	$ (687.2)	$ (20.6)	$ 4.4	$ (703.4)	$ 133.9

Based on the amortizable intangible assets recorded in the consolidated balance sheet as of December 31, 2020, amortization expense for each of the next five years is estimated as follows:

2021	$ 26.7
2022	$ 25.4
2023	$ 23.9
2024	$ 21.7
2025	$ 19.5

6. OTHER ASSETS

Prepaid Expenses and Other Current Assets

A summary of prepaid expenses and other current assets as of December 31 follows:

	2020	2019
Income tax receivable	$ 170.7	$ 156.7
Prepaid expenses	77.7	75.5
Inventories	59.1	56.8
Reinsurance receivable	34.1	31.9
Other non-trade receivables	32.2	88.1
Prepaid fees for cloud-based hosting arrangements, current	11.8	12.4
Interest rate swap locks	—	3.6
Other current assets	6.7	8.0
Total	$ 392.3	$ 433.0

Other Assets

A summary of other assets as of December 31 follows:

	2020	2019
Operating right-of-use lease asset	$ 218.8	$ 243.6
Investments	145.4	87.8
Deferred compensation plan	131.8	118.0
Reinsurance receivable	84.8	78.9
Deferred contract costs and sales commissions	82.3	83.1
Other derivative assets	63.8	2.9
Prepaid fees and capitalized implementation costs for cloud-based hosting arrangements	29.5	32.0
Amounts recoverable for capping, closure and post-closure obligations	18.5	31.8
Interest rate swaps	10.0	10.7
Deferred financing costs	2.7	3.0
Other	29.8	55.8
Total	$ 817.4	$ 747.6

7. OTHER LIABILITIES

Other Accrued Liabilities

A summary of other accrued liabilities as of December 31 follows:

	2020	2019
Accrued payroll and benefits	$ 221.1	$ 207.7
Insurance reserves, current portion	167.5	162.0
Accrued dividends	135.5	129.2
Accrued fees and taxes	132.3	140.8
Ceded insurance reserves, current portion	34.1	31.6
Operating right-of-use lease liabilities, current	33.5	51.5
Accrued professional fees and legal settlement reserves	7.2	11.8
Interest rate swap locks	—	14.9
Other	89.0	64.7
Total	$ 820.2	$ 814.2

Other Long-Term Liabilities

A summary of other long-term liabilities as of December 31 follows:

	2020	2019
Operating right-of-use lease liabilities	$ 206.6	$ 212.5
Deferred compensation plan liability	126.6	116.1
Other derivative liabilities	103.0	22.2
Ceded insurance reserves	84.8	80.6
Contingent purchase price and acquisition holdbacks	67.3	71.2
Withdrawal liability - multiemployer pension funds	22.3	12.0
Legal settlement reserves	20.2	10.0
Pension and other post-retirement liabilities	5.5	6.2
Interest rate swap locks	—	0.8
Other	45.5	47.8
Total	$ 681.8	$ 579.4

Insurance Reserves

Our liabilities for unpaid and incurred but not reported claims as of December 31, 2020 and 2019 (which include claims for workers' compensation, commercial general and auto liability, and employee-related health care benefits) were $449.3 million and $438.5 million, respectively, under our risk management program and are included in other accrued liabilities and insurance reserves, net of current portion, in our consolidated balance sheets. While the ultimate amount of claims incurred depends on future developments, we believe the recorded reserves are adequate to cover the future payment of claims; however, it is possible that these recorded reserves may not be adequate to cover the future payment of claims. Adjustments, if any, to estimates recorded resulting from ultimate claim payments will be reflected in our consolidated statements of income in the periods in which such adjustments are known.

The following table summarizes the activity in our insurance reserves for the years ended December 31:

	2020	2019	2018
Balance at beginning of year	$ 438.5	$ 423.7	$ 420.2
Additions charged to expense	466.1	468.5	452.4
Payments	(482.6)	(479.3)	(461.4)
Accretion expense	0.5	0.7	0.9
Premium written for third party risk assumed	36.5	35.5	31.6
Reclassified to ceded insurance reserves	(9.7)	(10.6)	(20.0)
Balance at end of year	449.3	438.5	423.7
Less: current portion	(167.5)	(162.0)	(152.9)
Long-term portion	$ 281.8	$ 276.5	$ 270.8

8. LANDFILL AND ENVIRONMENTAL COSTS

As of December 31, 2020, we owned or operated 186 active landfills with total available disposal capacity estimated to be 5.0 billion in-place cubic yards. Additionally, we have post-closure responsibility for 128 closed landfills.

Accrued Landfill and Environmental Costs

A summary of our accrued landfill and environmental liabilities as of December 31 follows:

	2020	2019
Landfill final capping, closure and post-closure liabilities	$ 1,346.4	$ 1,335.6
Environmental remediation	462.8	500.2
Total accrued landfill and environmental costs	1,809.2	1,835.8
Less: current portion	(114.5)	(132.6)
Long-term portion	$ 1,694.7	$ 1,703.2

Final Capping, Closure and Post-Closure Costs

The following table summarizes the activity in our asset retirement obligation liabilities, which includes liabilities for final capping, closure and post-closure, for the years ended December 31:

	2020	2019	2018
Asset retirement obligation liabilities, beginning of year	$ 1,335.6	$ 1,292.0	$ 1,257.7
Non-cash additions	42.3	44.9	43.9
Acquisitions, net of divestitures and other adjustments	(10.9)	0.2	(0.7)
Asset retirement obligation adjustments	(44.9)	(5.2)	(17.7)
Payments	(58.6)	(78.2)	(71.9)
Accretion expense	82.9	81.9	80.7
Asset retirement obligation liabilities, end of year	1,346.4	1,335.6	1,292.0
Less: current portion	(57.5)	(75.8)	(76.7)
Long-term portion	$ 1,288.9	$ 1,259.8	$ 1,215.3

We review our landfill asset retirement obligations at least annually. As a result, we reduced amortization expense by $12.5 million, $10.9 million and $13.2 million for December 31, 2020, 2019 and 2018, respectively, primarily related to changes in estimates and assumptions concerning the anticipated waste flow, cost and timing of future final capping, closure and post-closure activities.

The expected future payments for final capping, closure and post-closure as of December 31, 2020 follows:

2021	$ 57.5
2022	61.1
2023	76.0
2024	75.6
2025	82.2
Thereafter	6,348.8
	$ 6,701.2

The estimated remaining final capping, closure and post-closure expenditures presented above are not inflated and not discounted and reflect the total estimated future payments for liabilities which include those incurred and recorded as of December 31, 2020 as well as liabilities yet to be incurred over the remaining life of our landfills.

Environmental Remediation Liabilities

We accrue for remediation costs when they become probable and can be reasonably estimated. There can sometimes be a range of reasonable estimates of the costs associated with remediation of a site. In these cases, we use the amount within the range that constitutes our best estimate. If no amount within the range appears to be a better estimate than any other, we use the amount that is at the low end of such range. It is reasonably possible that we will need to adjust the liabilities recorded for remediation to reflect the effects of new or additional information, to the extent such information impacts the costs, timing or duration of the required actions. If we used the reasonably possible high ends of our ranges, our aggregate potential remediation liability as of December 31, 2020 would be approximately $356 million higher than the amounts recorded. Future changes in our estimates of the cost, timing or duration of the required actions could have a material adverse effect on our consolidated financial position, results of operations and cash flows.

The following table summarizes the activity in our environmental remediation liabilities for the years ended December 31:

	2020	2019	2018
Environmental remediation liabilities, beginning of year	$ 500.2	$ 540.2	$ 564.0
Net additions charged to expense	5.1	(12.5)	5.0
Payments	(63.5)	(49.1)	(48.8)
Accretion expense (non-cash interest expense)	18.6	19.0	20.2
Acquisitions, net of divestitures and other adjustments	2.4	2.6	(0.2)
Environmental remediation liabilities, end of year	462.8	500.2	540.2
Less: current portion	(57.0)	(56.8)	(53.9)
Long-term portion	$ 405.8	$ 443.4	$ 486.3

The expected undiscounted future payments for remediation costs as of December 31, 2020 follows:

2021	$ 57.0
2022	64.7
2023	67.8
2024	59.8
2025	41.0
Thereafter	352.4
	$ 642.7

The following is a discussion of certain of our significant remediation matters:

Bridgeton Landfill. During the year ended December 31, 2020, we paid $25.6 million related to management and monitoring of the remediation area for our closed Bridgeton Landfill in Missouri. We continue to work with state and federal regulatory agencies on our remediation efforts. From time to time, this may require us to modify our future operating timeline and procedures, which could result in changes to our expected liability. As of December 31, 2020, the remediation liability recorded for this site is $118.9 million, of which approximately $18 million is expected to be paid during 2021. We believe the remaining

reasonably possible high end of our range would be approximately $140 million higher than the amount recorded as of December 31, 2020.

During 2020 and 2019, we recognized insurance recoveries of $10.8 million and $24.0 million, respectively, related to our closed Bridgeton Landfill in Missouri. As such, we recorded a reduction of remediation expenses included in our cost of operations during the years ended December 31, 2020 and 2019.

West Lake Landfill Superfund Site. Our subsidiary Bridgeton Landfill, LLC is one of several currently designated Potentially Responsible Parties for the West Lake Landfill Superfund site (West Lake) in Missouri. On September 27, 2018, the U.S. Environmental Protection Agency (EPA) issued a Record of Decision Amendment for West Lake that includes a total undiscounted cost estimate of $229 million over a four to five-year design and construction timeline. On March 11, 2019, the EPA issued special notice letters under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) to Bridgeton Landfill, LLC and the other currently designated Potentially Responsible Parties to initiate negotiations to implement the remedy. At this time we are neither able to predict the final design of that remedy, nor estimate how much of the future response costs of the site our subsidiary may agree or be required to pay. During any subsequent administrative proceedings or litigation, our subsidiary will vigorously contest liability for the costs of remediating radiologically-impacted materials generated on behalf of the federal government during the Manhattan Project and delivered to the site by an Atomic Energy Commission licensee and its subcontractor. Currently, we believe we are adequately reserved for our expected remediation liability. However, subsequent events related to remedy design, divisibility, or allocation may require us to modify our expected remediation liability.

9. DEBT

The carrying value of our credit facilities, finance leases and long-term debt as of December 31, 2020 and 2019 is listed in the following table, and is adjusted for the fair value of interest rate swaps, unamortized discounts, deferred issuance costs and the unamortized portion of adjustments to fair value recorded in purchase accounting. Original issue discounts and adjustments to fair value recorded in purchase accounting are amortized to interest expense over the term of the applicable instrument using the effective interest method.

		December 31, 2020			December 31, 2019		
Maturity	Interest Rate	Principal	Adjustments	Carrying Value	Principal	Adjustments	Carrying Value
Credit facilities:							
Uncommitted Credit Facility	Variable	$ —	$ —	$ —	$ 11.6	$ —	$ 11.6
$1.0 billion - August 2021	Variable	—	—	—	—	—	—
$2.25 billion - June 2023	Variable	186.0	—	186.0	184.4	—	184.4
Senior notes:							
March 2020	5.000	—	—	—	850.0	(0.1)	849.9
November 2021	5.250	—	—	—	600.0	(0.8)	599.2
June 2022	3.550	—	—	—	850.0	(2.6)	847.4
May 2023	4.750	300.0	4.8	304.8	550.0	2.6	552.6
August 2024	2.500	900.0	(6.6)	893.4	900.0	(8.3)	891.7
March 2025	3.200	500.0	(3.0)	497.0	500.0	(3.6)	496.4
November 2025	0.875	350.0	(3.3)	346.7	—	—	—
July 2026	2.900	500.0	(3.3)	496.7	500.0	(3.9)	496.1
November 2027	3.375	650.0	(4.5)	645.5	650.0	(5.2)	644.8
May 2028	3.950	800.0	(14.2)	785.8	800.0	(15.7)	784.3
March 2030	2.300	600.0	(6.5)	593.5	—	—	—
February 2031	1.450	650.0	(8.6)	641.4	—	—	—
February 2032	1.750	750.0	(7.1)	742.9	—	—	—
March 2035	6.086	181.9	(13.4)	168.5	181.9	(13.9)	168.0
March 2040	6.200	399.9	(3.6)	396.3	399.9	(3.7)	396.2
May 2041	5.700	385.7	(5.1)	380.6	385.7	(5.3)	380.4
March 2050	3.050	400.0	(7.3)	392.7	—	—	—
Debentures:							
May 2021	9.250	35.3	(0.1)	35.2	35.3	(0.4)	34.9
September 2035	7.400	148.1	(32.1)	116.0	148.1	(33.0)	115.1
Tax-exempt:							
2021 - 2050	0.220 - 0.300	1,111.2	(6.5)	1,104.7	1,122.4	(6.2)	1,116.2
Finance leases:							
2021 - 2063	1.917 - 12.203	206.5	—	206.5	119.3	—	119.3
Total Debt		$ 9,054.6	$ (120.4)	8,934.2	$ 8,788.6	$ (100.1)	8,688.5
Less: current portion				(168.1)			(929.9)
Long-term portion				$ 8,766.1			$ 7,758.6

Loss on Extinguishment of Debt and Other Related Costs

During the year ended December 31, 2020, we incurred a loss on the early extinguishment of debt and other related costs. We paid cash premiums during the year totaling $99.1 million and incurred non-cash charges related to the proportional share of unamortized discounts and deferred issuance costs of $2.8 million. The unamortized proportional share of certain cash flow hedges reclassified to earnings as non-cash interest expense was $1.8 million and the proportional share of our fair value hedges

that were dedesignated and immediately recognized in earnings as a reduction to non-cash interest expense was $4.7 million.

Future Maturities of Debt

Aggregate principal maturities of notes payable, finance leases and other long-term debt as of December 31, 2020 follow:

2021	$	168.1
2022		6.4
2023		659.4
2024		924.9
2025		854.6
Thereafter		6,441.2
	$	9,054.6

Credit Facilities

The 364-Day Credit Facility

In August 2020, we entered into a $1.0 billion 364-day unsecured revolving credit facility (the 364-Day Credit Facility), which matures in August 2021. At our option, borrowings under the 364-Day Credit Facility bear interest at a Base Rate, or a Eurodollar Rate, plus an applicable margin based on our Debt Ratings (all as defined in the 364-Day Credit Facility agreement).

The 364-Day Credit Facility is subject to facility fees based on applicable rates defined in the 364-Day Credit Facility agreement and the aggregate commitment, regardless of usage. Availability under our 364-Day Credit Facility totaled $1.0 billion as of December 31, 2020. The 364-Day Credit Facility can be used for working capital, capital expenditures, acquisitions, and other general corporate purposes. The 364-Day Credit Facility agreement requires us to comply with financial and other covenants, which are consistent with the financial and other covenants included in our Credit Facility. We may pay dividends and repurchase common stock if we are in compliance with these covenants.

As of December 31, 2020, we had no borrowings outstanding under our 364-Day Credit Facility.

The Credit Facility

In 2018, we entered into a $2.25 billion unsecured revolving credit facility (as amended, the Credit Facility), which matures in June 2023. As permitted by the Credit Facility, we have the right to request two one-year extensions of the maturity date but none of the lenders are committed to participate in such extension. The Credit Facility also includes a feature that allows us to increase availability, at our option, by an aggregate amount of up to $1.0 billion through increased commitments from existing lenders or the addition of new lenders. At our option, borrowings under the Credit Facility bear interest at a Base Rate, or a Eurodollar Rate, plus an applicable margin based on our Debt Ratings (all as defined in the Credit Facility agreement).

The Credit Facility is subject to facility fees based on applicable rates defined in the Credit Facility agreement and the aggregate commitment, regardless of usage. Availability under our Credit Facility totaled $1,671.8 million and $1,696.9 million as of December 31, 2020 and 2019, respectively. The Credit Facility can be used for working capital, capital expenditures, acquisitions, letters of credit and other general corporate purposes. The Credit Facility agreement requires us to comply with financial and other covenants. We may pay dividends and repurchase common stock if we are in compliance with these covenants.

As of December 31, 2020 and 2019, we had $186.0 million and $184.4 million of borrowings outstanding under our Credit Facility, respectively. We had $376.5 million and $351.4 million of letters of credit outstanding under our Credit Facility as of December 31, 2020 and 2019, respectively.

In July 2020, we executed an amendment to the Credit Facility agreement to increase flexibility and reduce restrictions, in particular, for future acquisitions. Effective June 30, 2020, the amendment eliminated the consolidated interest coverage ratio and revised the sole remaining financial covenant, total debt to EBITDA ratio.

Uncommitted Credit Facility

We also have an Uncommitted Credit Facility, which bears interest at a LIBOR Rate or a Cost of Funds rate (both as defined in the Uncommitted Credit Facility Agreement), plus an applicable margin. We can use borrowings under the Uncommitted Credit Facility for working capital and other general corporate purposes. The agreement governing our Uncommitted Credit Facility requires us to comply with certain covenants. The Uncommitted Credit Facility may be terminated by either party at any time. As of December 31, 2020, we had no borrowings outstanding under our Uncommitted Credit Facility. As of December 31, 2019, we had $11.6 million of borrowings outstanding under our Uncommitted Credit Facility.

Senior Notes and Debentures

In November 2020, we issued $350.0 million of 0.875% senior notes due 2025 (the 0.875% Notes) and $750.0 million of 1.750% senior notes due 2032 (the 1.750% Notes). We used the net proceeds from the 0.875% Notes and 1.750% Notes to redeem all $850.0 million of the outstanding 3.550% senior notes due June 2022 and $250.0 million of the $550.0 million outstanding 4.750% senior notes due May 2023.

In August 2020, we issued $650.0 million of 1.450% senior notes due 2031 (the 1.450% Notes). We used the net proceeds to redeem all $600.0 million of the outstanding 5.250% senior notes due November 2021 plus a make-whole premium of $34.0 million. The remaining proceeds were used for general corporate purposes.

In February 2020, we issued $600.0 million of 2.300% senior notes due 2030 (the 2.300% Notes) and $400.0 million of 3.050% senior notes due 2050 (the 3.050% Notes). We used the net proceeds from the 2.300% Notes and 3.050% Notes to repay $850.0 million of 5.000% senior notes that matured in March 2020. The remaining proceeds were used to repay amounts outstanding under our unsecured credit facilities as well as for general corporate purposes.

Our senior notes are general senior unsecured obligations. Interest is payable semi-annually.

Interest Rate Swap and Lock Agreements

Our ability to obtain financing through the capital markets is a key component of our financial strategy. Historically, we have managed risk associated with executing this strategy, particularly as it relates to fluctuations in interest rates, by using a combination of fixed and floating rate debt. From time to time, we also have entered into interest rate swap and lock agreements to manage risks associated with interest rates, either to effectively convert specific fixed rate debt to a floating rate (fair value hedges), or to lock interest rates in anticipation of future debt issuances (cash flow hedges).

Fair Value Hedges

During the second half of 2013, we entered into various interest rate swap agreements relative to our 4.750% fixed rate senior notes due in May 2023 (the 4.750% Notes). The goal was to reduce overall borrowing costs and rebalance our debt portfolio's ratio of fixed to floating interest rates. As of December 31, 2020, these swap agreements have a total notional value of $300.0 million and mature in May 2023. We pay interest at floating rates based on changes in LIBOR and receive interest at a fixed rate of 4.750%. In 2013, these transactions were designated as fair value hedges because the swaps hedge against the changes in fair value of the 4.750% Notes resulting from changes in interest rates.

Contemporaneously with our $250.0 million redemption of the 4.750% Notes, we dedesignated the proportional share of these swap agreements as fair value hedges and recognized $4.7 million in earnings immediately as a reduction to non-cash interest expense. There was no ineffectiveness recognized in the dedesignation of these fair value hedges. Following the dedesignation, the fair value of these free standing derivatives was determined using standard valuation models with assumptions about interest rates being based on those observed in underlying markets (Level 2 in the fair value hierarchy). As of December 31, 2020, these free standing derivatives are reflected at their fair value of $8.3 million and are included in other assets in our consolidated balance sheets. For the year ended December 31, 2020, we recognized a loss of $0.1 million directly in earnings as an adjustment to non-cash interest expense attributable to the change in fair value of the free standing derivatives.

As of December 31, 2020 and 2019, the interest rate swap agreements that were designated as fair value hedges are reflected at their fair value of $10.0 million and $10.7 million, respectively, and are included in other assets in our consolidated balance sheets. To the extent they are effective, the remaining hedged portion of these interest rate swap agreements is included as an adjustment to long-term debt in our consolidated balance sheets.

We recognized net interest income of $5.7 million, $1.0 million and $1.9 million, respectively, during 2020, 2019 and 2018 related to net swap settlements for these interest rate swap agreements, which is included as an offset to interest expense in our consolidated statements of income.

For the years ended December 31, 2020 and 2019, we recognized losses of $5.7 million and $7.5 million, respectively, and during the year ended December 31, 2018 we recognized a gain of $5.0 million on the change in fair value of the hedged senior notes attributable to changes in the benchmark interest rate. For the years ended December 31, 2020 and 2019, we recognized offsetting gains of $7.6 million and $8.1 million, respectively. For the year ended December 31, 2018, we recognized an offsetting loss of $5.4 million on the related interest rate swaps attributable to changes in the benchmark interest rate. The difference of these fair value changes for the year ended December 31, 2018 was recorded directly in earnings as other income, net. In accordance with our adoption of ASU 2017-12, the difference of these fair value changes for the years ended December 31, 2020 and 2019 was recorded directly in earnings as an adjustment to interest expense in our consolidated statements of income.

For further detail regarding the effect of our fair value hedging on interest expense, see Note 18, *Financial Instruments*, of the

notes to our consolidated financial statements in Item 8 of this Form 10-K.

Cash Flow Hedges

We have historically entered into multiple swap agreements designated as cash flow hedges to manage exposure to fluctuations in interest rates in anticipation of planned future issuances of senior notes. Upon the expected issuance of senior notes, we terminate the interest rate locks and settle with our counterparties. These transactions were accounted for as cash flow hedges. All of our cash flow hedges settled before December 31, 2020, thus there was no related asset or liability as of December 31, 2020. As of December 31, 2019 our interest rate lock agreements had an aggregate notional value of $575.0 million with fixed interest rates ranging from 1.330% to 3.000%.

The fair value of our interest rate locks was determined using standard valuation models with assumptions about interest rates being based on those observed in underlying markets (Level 2 in the fair value hierarchy). The aggregate fair values of the outstanding interest rate locks as of December 31, 2019 were assets of $3.6 million, which were recorded in prepaid expenses and other current assets in our consolidated balance sheet and liabilities of $15.7 million, which were recorded in other accrued liabilities and other long-term liabilities in our consolidated balance sheet.

Total unrealized (loss) gain recognized in other comprehensive income for interest rate locks were $(22.5) million, $(30.2) million and $16.2 million, net of tax, for the years ended December 31, 2020, 2019, and 2018, respectively.

As of December 31, 2020 and 2019, our previously terminated interest rate locks were recorded as components of accumulated other comprehensive loss of $30.4 million and $4.7 million, respectively, net of tax. The effective portion of the interest rate locks is amortized as an adjustment to interest expense over the life of the issued debt using the effective interest method. Over the next 12 months, we expect to amortize approximately $4.6 million, net of tax, from accumulated other comprehensive loss to interest expense as a yield adjustment of our senior notes.

For further detail regarding the effect of our cash flow hedging on interest expense, see Note 18, *Financial Instruments*, of the notes to our consolidated financial statements in Item 8 of this Form 10-K.

Derivative Contracts

Contemporaneously with the issuance of our 2.300% Notes in February 2020, we amended interest rate lock agreements with a notional value of $550.0 million, extending the mandatory maturity date from 2020 to 2030 and dedesignated them as cash flow hedges (the 2020 Extended Interest Rate Locks). Contemporaneously with the issuance of our 2.500% Notes in August 2019 we amended interest rate lock agreements with a notional value of $375.0 million, extending the mandatory maturity date from 2019 to 2024 and dedesignated them as cash flow hedges (collectively with the 2020 Extended Interest Rate Locks referred to as the Extended Interest Rate Locks). There was no ineffectiveness recognized in the termination of these cash flow hedges. In addition, we entered into an offsetting interest rate swaps to offset future exposures to fair value fluctuations of the Extended Interest Rate Locks (the Offsetting Interest Rate Swaps). The fair value of these free standing derivatives was determined using standard valuation models with assumptions about interest rates being based on those observed in underlying markets (Level 2 in the fair value hierarchy).

As of December 31, 2020 and 2019, the fair values of the Extended Interest Rate Swaps were liabilities of $103.0 million and $22.2 million, respectively, which were included in other long-term liabilities in our consolidated balance sheet, and the fair values of the Offsetting Interest Rate Swaps were assets of $55.5 million and $2.9 million, respectively, which were included in other assets in our consolidated balance sheet. For the years ended December 31, 2020 and 2019, we recognized losses of $55.6 million and $3.4 million, respectively, on the change in fair value of the Extended Interest Rate Swaps, with offsetting gains of $52.9 million and $2.9 million, respectively, on the Offsetting Interest Rate Swaps. The changes in fair value were recorded directly in earnings as an adjustment to interest expense in our consolidated statements of income.

Tax-Exempt Financings

As of December 31, 2020, we had $1,104.7 million of certain variable rate tax-exempt financings outstanding with maturities ranging from 2021 to 2050. As of December 31, 2019, we had $1,116.2 million of certain variable rate tax-exempt financings outstanding with maturities ranging from 2020 to 2049. During the year ended December 31, 2020, we issued $60.0 million of new tax-exempt financings. During the year ended December 31, 2019, we refinanced $35.0 million and issued $30.0 million of tax-exempt financings.

All of our tax-exempt financings are remarketed either quarterly or semi-annually by remarketing agents to effectively maintain a variable yield. The holders of the bonds can put them back to the remarketing agents at the end of each interest period. If the remarketing agent is unable to remarket our bonds, the remarketing agent can put the bonds to us. In the event of a failed remarketing, we currently have availability under our $2.25 billion unsecured revolving credit facility to fund these bonds until they are remarketed successfully. Accordingly, we have classified these borrowings as long-term in our consolidated balance

sheet as of December 31, 2020.

Finance Leases

We had finance lease liabilities of $206.5 million and $119.3 million as of December 31, 2020 and 2019, respectively, with maturities ranging from 2021 to 2063 and 2020 to 2049, respectively.

In September 2020, we entered into an agreement to extend the term of one of our landfill finance leases by 43 years, or through the end of the landfill's site life. Accordingly, we recognized an incremental finance lease obligation of $90.4 million.

Interest Paid

Interest paid, excluding net swap settlements for our fair value hedges, was $325.1 million, $346.8 million, and $351.0 million for the years ended December 31, 2020, 2019 and 2018, respectively.

10. LEASES

A summary of the lease classification on our consolidated balance sheet as of December 31, 2020 and 2019 follows:

		2020	2019
Assets			
Operating right-of-use lease assets	Other assets	$ 218.8	$ 243.6
Finance lease assets	Property and equipment, net	227.7	134.8
Total lease assets		$ 446.5	$ 378.4
Liabilities			
Current			
Operating	Other accrued liabilities	$ 33.5	$ 51.5
Finance	Notes payable and current maturities of long-term debt	5.8	8.9
Long-term			
Operating	Other long-term liabilities	206.6	212.5
Finance	Long-term debt, net of current maturities	200.7	110.4
Total lease liabilities		$ 446.6	$ 383.3

A summary of the lease cost reflected in our consolidated statements of income for the years ended December 31 follow:

		2020	2019
Operating lease cost			
Fixed lease cost	Cost of operations	$ 44.0	$ 41.6
Short-term lease cost	Cost of operations	23.4	37.0
Variable lease cost	Cost of operations	18.6	17.8
Finance lease cost			
Amortization of leased assets	Depreciation amortization, and depletion	7.6	5.5
Interest on lease liabilities	Interest expense	8.2	7.5
Variable lease cost	Interest expense	14.0	5.6
Total lease cost		$ 115.8	$ 115.0

During the years ended December 31, 2020 and 2019, we recognized changes in our operating right-of-use lease liabilities and assets, resulting from the recognition of non-cash lease expense of $34.1 million and $36.3 million, respectively.

As of December 31, 2020, maturities for operating and finance lease liabilities were as follows:

	Operating Leases	Finance Leases	Total
2021	$ 41.5	$ 15.2	$ 56.7
2022	37.9	14.8	52.7
2023	35.6	37.3	72.9
2024	30.9	10.8	41.7
2025	29.4	10.9	40.3
Thereafter	105.8	299.1	404.9
Total lease payments	281.1	388.1	669.2
Less: interest	(41.0)	(181.6)	(222.6)
Present value of lease liabilities	$ 240.1	$ 206.5	$ 446.6

A summary of the weighted-average remaining lease term and weighted-average discount rate as of December 31, 2020 and 2019 follows:

	2020	2019
Weighted-average remaining lease term (years)		
Operating leases	8.4	9.2
Finance leases	30.4	14.3
Weighted-average discount rate		
Operating leases	3.8 %	3.9 %
Finance leases	4.3 %	6.7 %

Supplemental cash flow and other non-cash information for the years ended December 31 follow:

	2020	2019
Cash paid for amounts included in the measurement of lease liabilities		
Operating cash flows from operating leases	$ 86.9	$ 97.3
Operating cash flows from finance leases	$ 22.2	$ 13.1
Financing cash flows from finance leases	$ 8.1	$ 6.3
Leased assets obtained in exchange for new finance lease liabilities	$ 108.0	$ 15.9
Leased assets obtained in exchange for new operating lease liabilities	$ 24.8	$ 47.6

11. INCOME TAXES

The components of the provision for income taxes for the years ended December 31 follow:

	2020	2019	2018
Current:			
Federal	$ 71.7	$ 46.1	$ 128.9
State	43.6	40.5	46.9
Deferred:			
Federal	65.4	151.8	121.5
State	12.6	18.9	30.6
State deferred benefit - change in valuation allowance	(17.2)	(4.6)	(4.5)
Uncertain tax positions and interest, and other	(3.0)	(30.7)	(40.1)
Provision for income taxes	$ 173.1	$ 222.0	$ 283.3

The reconciliations of the statutory federal income tax rate to our effective tax rate for the years ended December 31 follow:

	2020	2019	2018
Federal statutory rate	21.0 %	21.0 %	21.0 %
State income taxes, net of federal benefit	4.5	4.2	4.5
Change in valuation allowance	(1.5)	(0.4)	(0.3)
Non-deductible expenses	1.7	1.7	1.9
Uncertain tax position taxes and interest	0.1	(0.3)	(0.5)
Investment tax credits	(8.8)	(6.5)	(3.8)
Change in U.S. Tax Law	—	—	—
Other, net	(1.8)	(2.6)	(1.3)
Effective income tax rate	15.2 %	17.1 %	21.5 %

During 2020, we acquired non-controlling interests in limited liability companies established to own solar energy assets that qualified for investment tax credits under Section 48 of the Internal Revenue Code. We account for these investments using the equity method of accounting and recognize our share of income or loss and other reductions in the value of our investment in loss from unconsolidated equity method investments within our consolidated statements of income. For further discussion regarding our equity method accounting, see Note 3, *Business Acquisitions, Investments and Restructuring Charges*. Our 2020 tax provision reflects a benefit of approximately $100 million due to the tax credits related to these investments. In addition, our 2020 tax provision was reduced by $17.2 million for adjustments to our valuation allowance due to the realizability of certain state loss carryforwards. Lastly, our provision was further reduced by $8.2 million due to the realization of additional federal and state benefits as well as adjustments to deferred taxes due to the completion of our 2019 tax returns and $11.6 million due from excess tax benefits related to stock compensation.

Our 2019 tax provision was reduced by $12.3 million from excess tax benefits related to stock compensation, approximately $84 million related to the tax credits from our non-controlling interests in limited liability companies established to own solar energy assets, and approximately $13 million due to the realization of tax credits and lower state rates due to changes in estimates following the completion of our 2018 tax returns.

Our 2018 tax provision was reduced by $12.1 million from excess tax benefits related to stock compensation, approximately $50 million related to the tax credits from our non-controlling interests in limited liability companies established to own solar energy assets, and approximately $6 million due to the realization of tax credits and lower state rates due to changes in estimates following the completion of our 2017 tax returns.

We made income tax payments (net of refunds) of approximately $124 million, $31 million and $210 million for 2020, 2019, and 2018, respectively. Income taxes paid in 2020, 2019, and 2018 reflect benefits from 100% bonus depreciation on qualified assets as well as tax credits from our continuing investments in solar energy.

The components of the net deferred income tax asset and liability as of December 31 follow:

	2020	2019
Deferred tax liabilities relating to:		
Differences between book and tax basis of property and equipment	$ (1,010.7)	$ (938.7)
Difference between book and tax basis of intangible assets	(464.6)	(464.5)
Operating right-of-use lease assets	(60.9)	(67.2)
Basis difference due to redemption of partnership interests	(85.3)	(84.2)
Total liabilities	$ (1,621.5)	$ (1,554.6)
Deferred tax assets relating to:		
Environmental reserves	$ 224.6	$ 241.2
Accruals not currently deductible	84.5	78.0
Net operating loss carryforwards	111.8	127.2
Difference between book and tax basis of other assets	21.7	18.6
Operating right-of-use lease liabilities	61.1	67.4
Other	13.3	12.8
Total assets	517.0	545.2
Valuation allowance	(43.8)	(67.6)
Net deferred tax asset	473.2	477.6
Net deferred tax liabilities	$ (1,148.3)	$ (1,077.0)

Changes in the deferred tax valuation allowance for the years ended December 31 follow:

	2020	2019	2018
Valuation allowance, beginning of year	$ 67.6	$ 73.5	$ 72.4
Additions charged to provision for income taxes	2.2	0.1	0.9
Deferred tax assets realized or written-off	(28.3)	(6.0)	(5.9)
Current year acquisitions	—	—	6.1
Other, net	2.3	—	—
Valuation allowance, end of year	$ 43.8	$ 67.6	$ 73.5

We have deferred tax assets related to state net operating loss carryforwards. We provide a partial valuation allowance due to uncertainty surrounding the future utilization of these carryforwards in the taxing jurisdictions where the loss carryforwards exist. When determining the need for a valuation allowance, we consider all positive and negative evidence, including recent financial results, scheduled reversals of deferred tax liabilities, projected future taxable income and tax planning strategies. The weight given to the positive and negative evidence is commensurate with the extent such evidence can be objectively verified. We adjust the valuation allowance in the period management determines it is more likely than not that deferred tax assets will or will not be realized.

Substantially all of our valuation allowance is associated with state loss carryforwards. The realization of our deferred tax asset for state loss carryforwards ultimately depends upon the existence of sufficient taxable income in the appropriate state taxing jurisdictions in future periods. We continue to regularly monitor both positive and negative evidence in determining the ongoing need for a valuation allowance.

During the three months ended December 31, 2020, we determined that it is more likely than not that we will realize a portion of our deferred tax assets related to certain state loss carryforwards. Most of these loss carryforwards are attributable to a specific subsidiary for which we have historically provided a partial valuation allowance due to the uncertainty surrounding the future utilization of these carryforwards in the tax jurisdictions where the loss carryforwards exist. The realization of these deferred tax assets depends upon the existence of sufficient taxable income in future periods. As a result of recent changes in U.S. tax law, the current macroeconomic environment and our ongoing efforts to streamline and maximize the efficiency of our tax footprint, we completed our restructuring plan which optimized our tax structure to better align with our overall operational footprint. This resulted in a reduction to our valuation allowance of $17.2 million for the year and three months ended December 31, 2020.

We have deferred tax assets related to state net operating loss carryforwards with an estimated tax effect of approximately $99

million available as of December 31, 2020. These state net operating loss carryforwards expire at various times between 2021 and 2040. We believe that it is more likely than not that the benefit from some of our state net operating loss carryforwards will not be realized due to limitations on these loss carryforwards in certain states. In recognition of this risk, as of December 31, 2020, we have provided a valuation allowance of approximately $44 million.

We are subject to income tax in the United States, as well as income tax in multiple state jurisdictions. Our compliance with income tax rules and regulations is periodically audited by tax authorities. These authorities may challenge the positions taken in our tax filings. Thus, to provide for certain potential tax exposures, we maintain liabilities for uncertain tax positions for our estimate of the final outcome of the examinations. Our federal statute of limitations is closed for all years prior to 2015. We are currently under examination by the Internal Revenue Service (IRS) for tax years 2015 through 2017 and recently received an informal notification from the IRS of their intent to expand their examination to include our 2018 tax year.

In addition, we are currently under state examination or administrative review in various jurisdictions for tax years 2012 to 2019.

The following table summarizes the activity in our gross unrecognized tax benefits for the years ended December 31:

	2020	2019	2018
Balance at beginning of year	$ 100.7	$ 104.9	$ 39.3
Additions for tax positions of prior years	0.4	0.9	75.0
Reductions for tax positions of prior years	—	—	(2.3)
Reductions for tax positions resulting from lapse of statute of limitations	—	(0.2)	(5.1)
Settlements	—	(4.9)	(2.0)
Balance at end of year	$ 101.1	$ 100.7	$ 104.9

During 2019 and 2018, we resolved tax matters in various states which reduced our gross unrecognized tax benefits by $5.1 million and $9.5 million, respectively.

Included in our gross unrecognized tax benefits as of December 31, 2020, 2019, and 2018 are $93.3 million, $93.0 million and $96.3 million, respectively, of unrecognized tax benefits (net of the federal benefit on state matters) that, if recognized, would affect our effective income tax rate in future periods. However, we are unable to estimate the resolution of these matters over the next 12 months.

We recognize interest and penalties as incurred within the provision for income taxes in our consolidated statements of income. Related to the unrecognized tax benefits previously noted, we recorded interest expense of $0.8 million during 2020 and, in total as of December 31, 2020, have recognized a liability for penalties of $0.3 million and interest of $12.6 million.

During 2019, we recorded interest expense of approximately $4 million and, in total as of December 31, 2019, had recognized a liability for penalties of $0.3 million and interest of $11.6 million. During 2018, we accrued interest of approximately $2 million and, in total as of December 31, 2018, had recognized a liability for penalties of $0.5 million and interest of $11.7 million.

During 2018, we accrued additional uncertain tax liabilities of approximately $63 million resulting from the filing of our 2017 tax returns and prior year amended tax returns that reflected uncertain tax positions. These additional liabilities for uncertain tax positions had no impact on our effective tax rate.

We believe the recorded liabilities for uncertain tax positions are adequate. However, a significant assessment against us in excess of the liabilities recorded could have a material adverse effect on our consolidated financial position, results of operations and cash flows.

12. EMPLOYEE BENEFIT PLANS

Stock-Based Compensation

In February 2007, our Board of Directors approved the 2007 Stock Incentive Plan (the 2007 Plan), and in May 2007 our shareholders ratified the 2007 Plan. In March 2011, our Board of Directors approved the Amended and Restated 2007 Stock Incentive Plan (the Amended and Restated 2007 SIP), and in May 2011 our shareholders ratified the Amended and Restated 2007 SIP. In March 2013, our Board of Directors approved the Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan (the Republic Amended and Restated 2007 SIP), and in May 2013 our shareholders ratified the Republic Amended and Restated 2007 SIP (the 2007 Plan, the Amended and Restated 2007 SIP, and the Republic Amended and Restated 2007 SIP are collectively referred to in this Form 10-K as the Amended and Restated 2007 Stock Incentive Plan). We currently have 12.8 million shares of common stock reserved for future grants under the Amended and Restated 2007 Stock Incentive

Plan; however, no further awards will be granted under the Amended and Restated 2007 Stock Incentive Plan after December 31, 2020.

In December 2008, our Board of Directors amended and restated the Republic Services, Inc. 2006 Incentive Stock Plan (formerly known as the Allied Waste Industries, Inc. 2006 Incentive Stock Plan) (the 2006 Plan). Allied's shareholders approved the 2006 Plan in May 2006. The 2006 Plan was amended and restated in December 2008 to reflect Republic as the new sponsor of the 2006 Plan, to reflect that any references to shares of common stock are to shares of common stock of Republic, and to adjust outstanding awards and the number of shares available under the 2006 Plan to reflect the Allied acquisition. The 2006 Plan, as amended and restated, provided for the grant of non-qualified stock options, incentive stock options, shares of restricted stock, shares of phantom stock, stock bonuses, restricted stock units, stock appreciation rights, performance awards, dividend equivalents, cash awards, or other stock-based awards. Awards granted under the 2006 Plan prior to December 5, 2008 became fully vested and non-forfeitable upon the closing of the Allied acquisition. No further awards will be made under the 2006 Plan.

In October 2020, our Board of Directors amended and restated the Republic Services, Inc. Executive Incentive Plan (the 2021 Plan) to remove references to the performance-based compensation exception that was previously permitted but is no longer applicable under Section 162(m) of the Code. The purposes of the Plan are to promote the success of the Company; to provide designated Executive Officers with an opportunity to receive incentive compensation dependent upon that success; and to attract, retain and motivate such individuals.

Restricted Stock Units

The following table summarizes restricted stock unit (RSU) activity for the years ended December 31, 2020, 2019 and 2018:

	Number of RSUs (in thousands)	Weighted-Average Grant Date Fair Value per Share	Weighted-Average Remaining Contractual Term (years)	Aggregate Intrinsic Value (in millions)
Unissued as of December 31, 2017	1,775.9	$ 45.48		
Granted	467.4	$ 64.32		
Vested and issued	(565.0)	$ 41.50		
Forfeited	(85.7)	$ 54.84		
Unissued as of December 31, 2018	1,592.6	$ 51.88		
Granted	392.8	$ 75.11		
Vested and issued	(409.8)	$ 50.40		
Forfeited	(76.1)	$ 65.37		
Unissued as of December 31, 2019	1,499.5	$ 57.63		
Granted	314.9	$ 95.75		
Vested and issued	(538.2)	$ 50.63		
Forfeited	(64.1)	$ 79.77		
Unissued as of December 31, 2020	1,212.1	$ 69.47	0.8	$ 116.7
Vested and unissued as of December 31, 2020	372.8	$ 51.84		

During the years ended December 31, 2020, 2019 and 2018, we awarded our non-employee directors 29,331, 35,376 and 36,855 RSUs, respectively, which vested upon issuance.

During the years ended December 31, 2020, 2019 and 2018, we awarded 258,661, 328,142 and 395,495 RSUs, respectively, to executives and employees that vest in four equal annual installments beginning on the anniversary date of the original grant or cliff vest after four years.

During the years ended December 31, 2020, 2019 and 2018, we granted an additional 26,907, 29,273 and 35,071 RSUs, respectively, as dividend equivalents.

The RSUs do not carry any voting or dividend rights, except the right to receive additional RSUs in lieu of dividends.

Compensation Expense

The fair value of RSUs is based on the closing market price on the date of the grant. The compensation expense related to RSUs is amortized ratably over the vesting period, or to the employee's retirement eligible date, if earlier.

During December 31, 2020, 2019 and 2018, compensation expense related to RSUs totaled $26.2 million, $24.8 million and $24.4 million, respectively. As of December 31, 2020, total unrecognized compensation expense related to outstanding RSUs was $36.3 million, which will be recognized over a weighted average period of 2.4 years.

Performance Shares

The following table summarizes performance stock unit (PSU) activity for the years ended December 31, 2020, 2019 and 2018:

	Number of PSUs (in thousands)	Weighted Average Grant Date Fair Value per Share
Unissued as of December 31, 2017	798.7	$ 50.52
Granted	374.9	$ 62.26
Vested and issued	(150.7)	$ 39.05
Forfeited	(23.2)	$ 59.76
Unissued as of December 31, 2018	999.7	$ 55.77
Granted	356.1	$ 71.22
Vested and issued	(407.3)	$ 47.11
Forfeited	(29.3)	$ 67.77
Unissued as of December 31, 2019	919.2	$ 65.92
Granted	247.0	$ 98.01
Vested and issued	(285.0)	$ 61.22
Forfeited	(27.6)	$ 88.29
Unissued as of December 31, 2020	853.6	$ 76.14

During the years ended December 31, 2020, 2019 and 2018, we awarded 127,278, 166,179 and 168,627 performance shares (PSUs) to our executive officers, respectively. These awards are performance-based as the number of shares ultimately earned depends on performance against pre-determined targets for return on invested capital (ROIC), cash flow value creation (CFVC), and total shareholder return relative to the S&P 500 index (RTSR). The PSUs are payable 50% in shares of common stock and 50% in cash after the end of a three-year performance period, when our financial performance for the entire performance period is reported, typically in February of the succeeding year. At the end of the performance period, the number of PSUs awarded can range from 0% to 150% of the targeted amount, depending on the performance against the pre-determined targets.

During the years ended December 31, 2020, 2019 and 2018, we awarded 102,994, 172,341, and 187,036 PSUs to our employees other than our executive officers, respectively. The PSUs are payable 100% in shares of common stock after the end of a three-year performance period, when our financial performance for the entire performance period is reported, typically in February of the succeeding year. At the end of the performance period, the number of PSUs awarded can range from 0% to 150% of the targeted amount, depending on the performance against the pre-determined targets.

During the years ended December 31, 2020, 2019 and 2018, we granted an additional 16,760, 17,612, and 19,204 PSUs, respectively, as dividend equivalents.

The PSUs do not carry any voting or dividend rights, except the right to accumulate additional PSUs in lieu of dividends.

Compensation Expense

For the stock-settled portion of the award that vests based on future ROIC and CFVC performance, compensation expense is measured using the fair value of our common stock at the grant date. For the cash-settled portion of the award that vests based on future ROIC and CFVC performance, compensation expense is recorded based on the fair value of our common stock at the end of each reporting period. Compensation expense is recognized ratably over the performance period based on our estimated achievement of the established performance criteria. Compensation expense is only recognized for the portion of the award that we expect to vest, which we estimate based on an assessment of the probability that the performance criteria will be achieved.

For the stock-settled portion of the award that vests based on RTSR, the grant date fair value is based on a Monte Carlo valuation and compensation expense is recognized on a straight-line basis over the vesting period. For the cash-settled portion of the award that vests based on RTSR, compensation expense also incorporates the fair value of our PSUs at the end of each reporting period. Compensation expense is recognized for the RTSR portion of the award whether or not the market conditions are achieved.

During December 31, 2020, 2019 and 2018, compensation expense related to PSUs totaled $17.2 million, $22.5 million, and $20.3 million, respectively. As of December 31, 2020, total unrecognized compensation expense related to outstanding PSUs was $16.9 million, which will be recognized over a weighted average period of 0.9 years.

Defined Benefit Pension Plan

We currently have one qualified defined benefit pension plan, the BFI Retirement Plan (the Plan). The Plan covers certain employees in the United States, including some employees subject to collective bargaining agreements.

The Plan benefits are frozen. Interest credits continue to be earned by participants in the Plan, and participants whose collective bargaining agreements provide for additional benefit accruals under the Plan continue to receive those credits in accordance with the terms of their bargaining agreements. The Plan was converted from a traditional defined benefit plan to a cash balance plan in 1993.

Prior to the conversion to the cash balance design, benefits payable as a single life annuity under the Plan were based on the participant's highest five years of earnings out of the last ten years of service. Upon conversion to the cash balance plan, the existing accrued benefits were converted to a lump-sum value using the actuarial assumptions in effect at the time. Participants' cash balance accounts are increased until retirement by certain benefit and interest credits under the terms of their bargaining agreements. Participants may elect early retirement with the attainment of age 55 and completion of ten years of credited service at reduced benefits. Participants with 35 years of service may retire at age 62 without any reduction in benefits.

Our pension contributions are made in accordance with funding standards established by the Employee Retirement Income Security Act of 1974 and the Internal Revenue Code, as amended by the Pension Protection Act enacted in 2006 (the PPA). No contributions were made in 2020 or 2019.

We must separately recognize the overfunded or underfunded status of the Plan as an asset or liability. The funded status represents the difference between the projected benefit obligation (PBO) and the fair value of the Plan assets. The PBO is equal to the accumulated benefit obligation (ABO) as the Plan is frozen, and the present value of liabilities is not affected by future salary increases. We use a measurement date that coincides with our year end of December 31.

The following table presents the ABO and reconciliations of the changes in the PBO, the Plan assets and the accounting funded status of our defined benefit pension plan for the years ended December 31:

	Defined Benefit Pension Plan	
	2020	2019
Accumulated benefit obligation	$ 219.2	$ 218.0
Change in projected benefit obligation:		
Projected benefit obligation at beginning of year	$ 218.0	$ 220.7
Interest cost	6.4	8.9
Actuarial (gain) loss	11.3	19.0
Benefits paid	(16.5)	(30.6)
Projected benefit obligation at end of year	$ 219.2	$ 218.0
Change in plan assets:		
Fair value of plan assets at beginning of year	$ 226.6	$ 230.1
Actual return on plan assets	24.5	29.0
Estimated expenses	(2.1)	(1.9)
Benefits paid	(16.5)	(30.6)
Fair value of plan assets at end of year	$ 232.5	$ 226.6
Over funded status	$ 13.3	$ 8.6
Amounts recognized in the statement of financial position consist of:		
Noncurrent assets	$ 13.3	$ 8.6
Net amount recognized	$ 13.3	$ 8.6
Weighted average assumptions used to determine benefit obligations:		
Discount rate	2.24 %	3.06 %
Rate of compensation increase	N/A	N/A

The amounts included in accumulated other comprehensive income on the consolidated balance sheets that have not yet been recognized as components of net periodic benefit cost as of December 31, 2020 and 2019 were $23.7 million and $20.8 million, respectively.

The components of the net periodic benefit cost for the years ended December 31 are summarized below:

	2020	2019	2018
Components of net periodic benefit cost:			
Interest cost	$ 6.4	$ 8.9	$ 8.2
Expected return on plan assets	(8.0)	(9.7)	(11.3)
Recognized net actuarial (gain)	(0.1)	(0.1)	(1.1)
Amortization of prior service cost	0.1	0.1	0.1
Net periodic benefit (income)	$ (1.6)	$ (0.8)	$ (4.1)
Weighted average assumptions used to determine net periodic benefit cost:			
Discount rate	2.24 %	4.21 %	3.55 %
Expected return on plan assets	3.45 %	5.20 %	5.35 %
Rate of compensation increase	N/A	N/A	N/A

We determine the discount rate used in the measurement of our obligations based on a model that matches the timing and amount of expected benefit payments to maturities of high quality bonds priced as of the Plan measurement date. When that timing does not correspond to a published high-quality bond rate, our model uses an expected yield curve to determine an appropriate current discount rate. The yields on the bonds are used to derive a discount rate for the liability. The term of our obligation, based on the expected retirement dates of our workforce, is approximately seven years.

In developing our expected rate of return assumption, we have evaluated the actual historical performance and long-term return projections of the Plan assets, which give consideration to the asset mix and the anticipated timing of the Plan outflows. We employ a total return investment approach whereby a mix of equity and fixed income investments are used to maximize the long-term return of Plan assets for what we consider a prudent level of risk. The intent of this strategy is to minimize Plan expenses by outperforming Plan liabilities over the long run. Risk tolerance is established through careful consideration of Plan liabilities, Plan funded status and our financial condition. The investment portfolio contains a diversified blend of equity and fixed income investments. Furthermore, equity investments are diversified across U.S. and non-U.S. stocks as well as growth, value, and small and large capitalizations. Derivatives may be used to gain market exposure in an efficient and timely manner; however, derivatives may not be used to leverage the portfolio beyond the market value of the underlying investments. Investment risk is measured and monitored on an ongoing basis through annual liability measurements, periodic asset and liability studies, and quarterly investment portfolio reviews.

The following table summarizes our target asset allocation as of December 31, 2020 and the actual asset allocation as of December 31, 2020 and 2019 for our Plan:

	December 31, 2020 Target Asset Allocation	December 31, 2020 Actual Asset Allocation	December 31, 2019 Actual Asset Allocation
Debt securities	82 %	81 %	83 %
Equity securities	18	19	17
Total	100 %	100 %	100 %

Asset allocations are reviewed and rebalanced periodically based on funded status. For 2021, the investment strategy for Plan assets is to maintain a broadly diversified portfolio designed to achieve our target of an average long-term rate of return of 3.45%. While we believe we can achieve a long-term average return of 3.45%, we cannot be certain that the portfolio will perform to our expectations. Assets are strategically allocated among debt and equity portfolios to achieve a diversification level that reduces fluctuations in investment returns. Asset allocation target ranges and strategies are reviewed periodically with the assistance of an independent external consulting firm.

The Plan assets are measured at fair value. The following table summarizes, by level, within the fair value hierarchy, the investments of the Plan at fair value as of December 31, 2020 and 2019:

		Fair Value Measurements Using		
	Total as of December 31, 2020	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Money market accounts	$ 4.8	$ 4.8	$ —	$ —
Mutual funds	227.7	—	227.7	—
Total assets	$ 232.5	$ 4.8	$ 227.7	$ —

		Fair Value Measurements Using		
	Total as of December 31, 2019	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Money market accounts	$ 11.3	$ 11.3	$ —	$ —
Mutual funds	215.3	—	215.3	—
Total assets	$ 226.6	$ 11.3	$ 215.3	$ —

Estimated future benefit payments for the next ten years under the Plan follow:

2021	$ 19.9
2022	$ 19.5
2023	$ 17.9
2024	$ 17.2
2025	$ 16.5
2026 through 2030	$ 66.8

Collective Bargaining Agreements

As of December 31, 2020, approximately 24% of our workforce was covered by collective bargaining agreements (CBAs), and approximately 7% of our workforce was covered by CBAs that will expire during 2021.

Multiemployer Pension Plans

We participate in multiemployer pension plans that generally provide retirement benefits to participants of contributing employers. We do not administer these plans. In general, these plans are managed by a board of trustees with the unions appointing certain trustees and other contributing employers of the plan appointing certain members. We generally are not represented on the board of trustees.

Based on the information available to us, we believe that some of the multiemployer plans to which we contribute are either critical or endangered as those terms are defined in the Pension Protection Act (PPA). The PPA requires underfunded pension plans to improve their funding ratios within prescribed intervals based on the level of their underfunding. Until the plan trustees develop the funding improvement plans or rehabilitation plans as required by the PPA, we cannot determine the amount of any additional contribution or other financial obligations that we may be subject to, if any. Accordingly, we cannot presently determine the effect that the PPA may have on our consolidated financial position, results of operations or cash flows.

Furthermore, under current law regarding multiemployer benefit plans, a plan's termination, our voluntary withdrawal (which we consider from time to time), or the mass withdrawal from any under-funded multiemployer pension plan would require us to make payments to the plan for our proportionate share of the multiemployer plan's unfunded vested liabilities. During the course of operating our business, we may incur withdrawal events regarding certain of the multiemployer pension plans in which we participate. We accrue for such events when losses become probable and reasonably estimable.

In June 2020, we entered into an agreement with a certain multiemployer pension fund through which we transitioned from one

plan into another plan managed by the same fund, thus creating a withdrawal event from the original plan. As a result of the withdrawal event, we recognized $31.6 million of withdrawal costs, which we paid in July 2020.

Republic's participation in individually significant multiemployer pension plans for the year ended December 31, 2020 is outlined in the table below. Only with respect to multiemployer pension plans, we considered contributions in excess of $2.0 million in any period disclosed to be individually significant. The most recent PPA zone status available in 2020 and 2019 is for the plans' year ended September 30, or December 31, 2019 and 2018, respectively. The status is based on information that Republic received from the plans and is certified by the plans' actuary. Among other factors, plans in the critical red zone are generally less than 65% funded, plans in the endangered yellow zone are less than 80% funded, and plans in the safe green zone are at least 80% funded. Plans in the critical and declining zone are classified as critical and projected to be insolvent in the current year or any of the 14 following plan years. The last column lists the expiration dates of the CBAs to which the plans are subject.

		Pension Protection Act Zone Status		Funding Improvement or Rehabilitation Plan Status Pending /	Republic Contributions to Plan			Surcharge	Expiration Dates
Legal Plan Name	EIN	2019	2018	Implemented	2020	2019	2018	Imposed	of CBAs
Western Conference of Teamsters Pension Plan	91-6145047	Safe	Safe	No	$ 49.4	$ 45.1	$ 44.3	No	Various dates through 9/30/25
Local No. 731 I.B. of T. Pension Fund	36-6513567	Safe	Safe	No	8.8	9.3	9.7	No	Various dates through 1/31/24
New England Teamsters & Trucking Industry Pension	04-6372430	Critical and Declining	Critical and Declining	Implemented	2.8	3.5	3.2	No	06/30/25
Midwest Operating Engineers Pension Fund	36-6140097	Safe	Endangered	Implemented	2.6	2.4	2.1	No	Various dates through 11/30/23
Individually significant plans					63.6	60.3	59.3		
All other plans	N/A	N/A	N/A	N/A	9.6	11.8	10.1	N/A	
Total					$ 73.2	$ 72.1	$ 69.4		

We are listed in the Form 5500 for Local No. 731, I.B. of T. Pension Fund as providing more than 5% of the total contributions. At the date these financial statements were issued, Forms 5500 were not available for the plan years ended in 2020.

The COVID-19 pandemic has created significant volatility and disruption of financial markets, which has negatively impacted companies across the globe. We will continue to monitor the Pension Protection Act zone status of the multiemployer pension plans in which we participate, noting that the current economic environment may impact certain contributing employers' ability to fulfill their obligations under the plans. We believe the largest risk is attributable to plans in the critical red zone. In the event other contributing employers default on their obligations under the plans, we could be required to adjust our estimates for these matters, which could have a material and adverse effect on our consolidated financial position, results of operations and cash flows.

Defined Contribution Plan

We maintain the Republic Services 401(k) Plan (the 401(k) Plan), which is a defined contribution plan covering all eligible employees. Under the 401(k) Plan, participants may direct us to defer a portion of their compensation to the 401(k) Plan, subject to Internal Revenue Code limitations. We provide for an employer matching contribution equal to 100% of the first 3% of eligible compensation and 50% of the next 2% of eligible compensation contributed by each employee, which is funded in cash. All contributions vest immediately.

Total expense recorded for matching 401(k) contributions in 2020, 2019 and 2018 was $59.3 million, $55.7 million and $51.7 million, respectively.

Deferred Compensation Plan

We provide eligible Republic employees, officers and directors with the opportunity to voluntarily defer base salary, bonus payments, long-term incentive awards and other compensation, as applicable, on a pre-tax basis through the Republic Services, Inc. Deferred Compensation Plan (the DCP). The DCP is a nonqualified deferred compensation plan that conforms to

Section 409A of the Internal Revenue Code. Eligible participants can defer up to 80% of base salary and up to 100% of bonus, long-term compensation and directors' fees. Under the DCP, some participants also are eligible for matching contributions. The matching contribution under the DCP is equal to the lesser of 2% of the participant's compensation over established 401(k) limits or 50% of the amount the participant has deferred. The DCP participants have no ownership or security interest in any of the amounts deferred or the measurement funds under the DCP. The right of each participant in the DCP is solely that of a general, unsecured creditor of Republic with respect to his or her own interest under the DCP. Deferred amounts may be subject to forfeiture and are deemed invested among investment funds offered under the DCP, as directed by each participant. Payments of deferred amounts are payable following separation from service or at a date or dates elected by the participant when the deferral is elected. Payments of deferred amounts are made in either a lump sum or in annual installments over a period not exceeding 15 years.

Republic invested in corporate-owned life insurance policies to satisfy future obligations under the DCP. These corporate-owned life insurance policies are held in a Rabbi Trust and are recorded at the amount that can be realized under insurance contracts at the balance sheet date, which is the cash surrender value adjusted for other charges or other amounts due that are probable at settlement. The aggregate cash surrender value of these life insurance policies was $131.8 million and $118.0 million as of December 31, 2020 and 2019, respectively, and is classified in other assets in our consolidated balance sheets. The DCP liability was $126.6 million and $116.1 million as of December 31, 2020 and 2019, respectively, and is classified in other long-term liabilities in our consolidated balance sheets.

Employee Stock Purchase Plan

Republic employees are eligible to participate in an employee stock purchase plan. The plan allows participants to purchase our common stock for 95% of its quoted market price on the last day of each calendar quarter. For the years ended December 31, 2020, 2019 and 2018, issuances under this plan totaled 116,865 shares, 107,522 shares and 117,153 shares, respectively. As of December 31, 2020, shares reserved for issuance to employees under this plan totaled 2.7 million and Republic held employee contributions of $2.4 million for the purchase of common stock.

13. SHARE REPURCHASES AND DIVIDENDS

Share Repurchases

Share repurchase activity during the years ended December 31, 2020 and 2019 follows (in millions except per share amounts):

	2020	2019
Number of shares repurchased	1.2	4.9
Amount paid	$ 98.8	$ 399.4
Weighted average cost per share	$ 85.06	$ 82.13

As of December 31, 2020 and 2019, there were no repurchased shares pending settlement.

In October 2017, our Board of Directors added $2.0 billion to the existing share repurchase authorization, which continued through December 31, 2020. In October 2020, our Board of Directors approved a $2.0 billion share repurchase authorization effective starting January 1, 2021 and extending through December 31, 2023. Share repurchases under the current program may be made through open market purchases or privately negotiated transactions in accordance with applicable federal securities laws. While the Board of Directors has approved the program, the timing of any purchases, the prices and the number of shares of common stock to be purchased will be determined by our management, at its discretion, and will depend upon market conditions and other factors. The share repurchase program may be extended, suspended or discontinued at any time. As of December 31, 2020, the remaining authorized purchase capacity under our October 2020 repurchase program was $2.0 billion. On a quarterly basis, our Board of Directors reviews the intrinsic value of our stock and the parameters around which we repurchase our shares.

In December 2020, our board of directors changed the status of 35,789,806 treasury shares to authorized and unissued. In doing so, the number of our issued shares was reduced by the stated amount. Our accounting policy is to deduct the par value from common stock and to reflect the excess of cost over par value as a deduction from additional paid-in capital. The reduction in issued shares resulted in a change of $2,316.0 million in treasury stock which was reclassified as $0.3 million in common stock, and $2,315.7 million in additional paid-in capital. There was no effect on our total stockholders' equity position as a result of the change.

Dividends

In October 2020, our Board of Directors approved a quarterly dividend of $0.425 per share. Aggregate cash dividends declared were $528.8 million, $499.4 million and $468.4 million for the years ended December 31, 2020, 2019 and 2018, respectively. As of December 31, 2020, we recorded a quarterly dividend payable of $135.5 million to shareholders of record at the close of business on January 4, 2021.

14. EARNINGS PER SHARE

Basic earnings per share is computed by dividing net income attributable to Republic Services, Inc. by the weighted average number of common shares (including vested but unissued RSUs and PSUs) outstanding during the period. Diluted earnings per share is based on the combined weighted average number of common shares and common share equivalents outstanding, which include, where appropriate, the assumed exercise of employee stock options, unvested RSUs and unvested PSUs at the expected attainment levels. We use the treasury stock method in computing diluted earnings per share.

Earnings per share for the years ended December 31, 2020, 2019, and 2018 are calculated as follows (in thousands, except per share amounts):

	2020	2019	2018
Basic earnings per share:			
Net income attributable to Republic Services, Inc.	$ 967,237	$ 1,073,286	$ 1,036,898
Weighted average common shares outstanding	319,282	321,058	326,897
Basic earnings per share	$ 3.03	$ 3.34	$ 3.17
Diluted earnings per share:			
Net income attributable to Republic Services, Inc.	$ 967,237	$ 1,073,286	$ 1,036,898
Weighted average common shares outstanding	319,282	321,058	326,897
Effect of dilutive securities:			
Options to purchase common stock	52	247	745
Unvested RSU awards	175	254	250
Unvested PSU awards	327	431	491
Weighted average common and common equivalent shares outstanding	319,836	321,990	328,383
Diluted earnings per share	$ 3.02	$ 3.33	$ 3.16

During the year ended December 31, 2020, there were less than 0.1 million antidilutive securities outstanding. During the years ended December 31, 2019 and 2018, there were no antidilutive securities outstanding, respectively.

15. SEGMENT REPORTING

In December 2020, our senior management began evaluating, overseeing and managing the financial performance of our operations through three operating segments. Group 1 primarily consists of geographic areas located in the western United States, and Group 2 primarily consists of geographic areas located in the southeastern and mid-western United States, and the eastern seaboard of the United States. Our environmental solutions operating segment, which provides environmental solutions for daily operations of industrial, petrochemical and refining facilities, is aggregated with Corporate entities and other as it only represents approximately 1% of our consolidated revenue. Each of our operating segments provides integrated environmental services, including collection, transfer, recycling, and disposal.

REPUBLIC SERVICES, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS—(Continued)

Summarized financial information concerning our reportable segments for the years ended December 31, 2020, 2019 and 2018 follows:

	Gross Revenue	Intercompany Revenue	Net Revenue	Depreciation, Amortization, Depletion and Accretion	Operating Income (Loss)	Capital Expenditures	Total Assets
2020:							
Group 1	$ 6,059.3	$ (1,001.8)	$ 5,057.5	$ 502.1	$ 1,343.3	$ 546.6	$ 11,760.3
Group 2	5,626.4	(834.5)	4,791.9	488.9	966.4	465.8	9,255.9
Corporate entities and other	346.0	(41.8)	304.2	167.8	(600.6)	182.2	2,417.8
Total	$ 12,031.7	$ (1,878.1)	$ 10,153.6	$ 1,158.8	$ 1,709.1	$ 1,194.6	$ 23,434.0
2019:							
Group 1	$ 6,012.5	$ (1,010.6)	$ 5,001.9	$ 493.7	$ 1,231.7	$ 551.3	$ 11,389.1
Group 2	5,782.6	(838.2)	4,944.4	475.1	926.5	490.9	8,947.7
Corporate entities and other	397.9	(44.8)	353.1	153.6	(371.0)	164.9	2,347.0
Total	$ 12,193.0	$ (1,893.6)	$ 10,299.4	$ 1,122.4	$ 1,787.2	$ 1,207.1	$ 22,683.8
2018:							
Group 1	$ 5,794.1	$ (982.6)	$ 4,811.5	$ 484.1	$ 1,157.5	$ 515.8	$ 10,994.9
Group 2	5,704.6	(825.9)	4,878.7	469.3	900.0	421.3	8,674.0
Corporate entities and other	399.7	(49.0)	350.7	160.7	(321.7)	134.7	1,948.1
Total	$ 11,898.4	$ (1,857.5)	$ 10,040.9	$ 1,114.1	$ 1,735.8	$ 1,071.8	$ 21,617.0

Financial information for the years ended December 31, 2019 and 2018 reflects the transfer of our environmental solutions operating segment from Group 2 to Corporate entities and other.

Intercompany revenue reflects transactions within and between segments that generally are made on a basis intended to reflect the market value of such services. Capital expenditures for Corporate entities and other primarily include vehicle inventory acquired but not yet assigned to operating locations and facilities. Corporate functions include legal, tax, treasury, information technology, risk management, human resources, closed landfills, environmental solutions, and other administrative functions.

16. REVENUE

Our operations primarily consist of providing environmental services. The following table disaggregates our revenue by service line for the years ended December 31 (in millions of dollars and as a percentage of revenue):

	2020		2019		2018	
Collection:						
Residential	$ 2,309.0	22.7 %	$ 2,271.9	22.1 %	$ 2,236.5	22.3 %
Small-container	3,106.8	30.6	3,170.0	30.8	3,059.1	30.5
Large-container	2,148.9	21.2	2,249.6	21.8	2,184.7	21.8
Other	51.5	0.5	46.1	0.4	43.8	0.4
Total collection	7,616.2	75.0	7,737.6	75.1	7,524.1	75.0
Transfer	1,349.4		1,318.7		1,244.9	
Less: intercompany	(745.9)		(748.1)		(713.8)	
Transfer, net	603.5	5.9	570.6	5.5	531.1	5.3
Landfill	2,298.1		2,324.2		2,291.7	
Less: intercompany	(1,018.5)		(1,024.1)		(1,020.8)	
Landfill, net	1,279.6	12.6	1,300.1	12.6	1,270.9	12.6
Environmental solutions	127.7	1.3	191.7	1.9	194.7	1.9
Other:						
Recycling processing and commodity sales	297.1	2.9	273.3	2.7	297.8	3.0
Other non-core	229.5	2.3	226.1	2.2	222.3	2.2
Total other	526.6	5.2	499.4	4.9	520.1	5.2
Total revenue	$ 10,153.6	100.0 %	$ 10,299.4	100.0 %	$ 10,040.9	100.0 %

Other non-core revenue consists primarily of revenue from National Accounts, which represents the portion of revenue generated from nationwide or regional contracts in markets outside our operating areas where the associated material handling is subcontracted to local operators. Consequently, substantially all of this revenue is offset with related subcontract costs, which are recorded in cost of operations.

The factors that impact the timing and amount of revenue recognized for each service line may vary based on the nature of the service performed. Generally, we recognize revenue at the time we perform a service. In the event that we bill for services in advance of performance, we recognize deferred revenue for the amount billed and subsequently recognize revenue at the time the service is provided. Depending upon the nature of the contract, we may also generate revenue through the collection of fuel recovery fees and environmental fees which are designed to recover our internal costs of providing services to our customers. See Note 15, *Segment Reporting*, for additional information regarding revenue by reportable segment.

Revenue by Service Line

Collection Services

Our collection business involves the collection of material for transport to transfer stations, or directly to landfills or recycling processing centers. Our collection services business includes both recurring and temporary customer relationships. Our standard contract duration is three years, although some of our exclusive franchises are for significantly longer periods. The fees received for collection services are based primarily on the market, collection frequency, type of service, type and volume or weight of the material collected, the distance to the disposal facility and the cost of disposal.

In general, small-container and residential collection fees are billed monthly or quarterly in advance. Substantially all of the deferred revenue recognized as of December 31, 2019 was recognized as revenue during the year ended December 31, 2020 when the service was performed. Our large-container customers are typically billed on a monthly basis based on the nature of the services provided during the period.

Revenue recognized under these agreements is variable in nature based on the number of residential homes or businesses serviced during the period, the frequency of collection and the volume of material collected. In addition, certain of our contracts have annual price escalation clauses that are tied to changes in an underlying base index such as a consumer price index which are unknown at contract inception.

Transfer Services

Revenue at our transfer stations is primarily generated by charging tipping or disposal fees. The fees received for transfer services are based primarily on the market, type and volume or weight of the material accepted, the distance to the disposal facility and the cost of disposal. In general, fees are billed and revenue is recognized at the time the service is performed. Revenue recognized under these agreements is variable in nature based on the volume and nature of the material accepted at the transfer station.

Landfill Services

Revenue at our landfills is primarily generated by charging tipping fees to third parties based on the volume disposed and the nature of the waste. In general, fees are variable in nature and revenue is recognized at the time the waste is disposed at the facility.

Environmental Solutions

Environmental solutions waste is generated from the by-products of oil and natural gas exploration and production activity. Additionally, it is generated by the daily operations of industrial, petrochemical and refining facilities, including maintenance, plant turnarounds and capital projects. Environmental solutions revenue is primarily generated through the disposal of non-hazardous solid and liquid material and in-plant services, such as transportation and logistics. Activity for this service line varies across market areas that are tied to the natural resource basins in which the drilling activity occurs and reflects the regulatory environment, pricing and disposal alternatives available in any given market. Revenue recognized under these agreements is variable in nature and primarily based on the volume of waste accepted or processed during the period.

Recycling Processing and Commodity Sales

Our recycling processing centers generate revenue through the processing and sale of old corrugated cardboard (OCC), old newsprint (ONP), aluminum, glass and other materials at market prices. In certain instances, we issue recycling rebates to our municipal or large-container customers, which can be based on the price we receive upon the final sale of recycled commodities, a fixed contractual rate or other measures. We also receive rebates when we dispose of recycled commodities at third-party facilities. The fees received are based primarily on the market, type and volume or weight of the materials sold. In general, fees are billed and revenue is recognized at the time title is transferred. Revenue recognized under these agreements is variable in nature based on the volume and type of materials sold. In addition, the amount of revenue recognized is based on commodity prices at the time of sale, which are unknown at contract inception.

Revenue Recognition

Our service obligations of a long-term nature, e.g., certain collection service contracts, are satisfied over time, and we recognize revenue based on the value provided to the customer during the period. The amount billed to the customer is based on variable elements such as the number of residential homes or businesses for which collection services are provided, the volume of material collected, transported and disposed, and the nature of the material accepted. We do not disclose the value of unsatisfied performance obligations for these contracts as our right to consideration corresponds directly to the value provided to the customer for services completed to date and all future variable consideration is allocated to wholly unsatisfied performance obligations.

Additionally, certain elements of our long-term customer contracts are unknown upon entering into the contract, including the amount that will be billed in accordance with annual price escalation clauses, our fuel recovery fee program and commodity prices. The amount to be billed is often tied to changes in an underlying base index such as a consumer price index or a fuel or commodity index, and revenue can be recognized once the index is established for the period.

Deferred Contract Costs

We incur certain upfront payments to acquire customer contracts which are recognized as other assets in our consolidated balance sheet, and we amortize the asset over the respective contract life. In addition, we recognize sales commissions that represent an incremental cost of the contract as other assets in our consolidated balance sheet, and we amortize the asset over the average life of the customer relationship. As of December 31, 2020 and 2019, we recognized $82.3 million and $83.1 million, respectively, of deferred contract costs and capitalized sales commissions. During the years ended December 31, 2020 and 2019, we amortized $12.2 million and $11.8 million, respectively, of capitalized sales commissions to selling, general and administrative expenses, and $6.5 million and $6.2 million, respectively, of other deferred contract costs as a reduction of revenue.

17. CHANGES IN ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS) BY COMPONENT

A summary of changes in accumulated other comprehensive income, net of tax, by component, for the years ended December 31, 2020, 2019 and 2018 follows:

	Cash Flow Hedges	Defined Benefit Pension Plan	Total
Balance as of December 31, 2017	$ 1.4	$ 21.2	$ 22.6
Other comprehensive income (loss) before reclassifications	18.5	(6.5)	12.0
Amounts reclassified from accumulated other comprehensive income	(3.8)	—	(3.8)
Net current-period other comprehensive income	14.7	(6.5)	8.2
Balance as of December 31, 2018	16.1	14.7	30.8
Other comprehensive loss before reclassifications	(30.2)	(2.5)	(32.7)
Amounts reclassified from accumulated other comprehensive income	1.0	—	1.0
Net current period other comprehensive income (loss)	(29.2)	(2.5)	(31.7)
Adoption of accounting standard	(0.6)	3.7	3.1
Balance as of December 31, 2019	(13.7)	15.9	2.2
Other comprehensive loss before reclassifications	(22.5)	2.1	(20.4)
Amounts reclassified from accumulated other comprehensive loss	5.8	—	5.8
Net current period other comprehensive loss	(16.7)	2.1	(14.6)
Balance as of December 31, 2020	$ (30.4)	$ 18.0	$ (12.4)

A summary of reclassifications out of accumulated other comprehensive income (loss) for the years ended December 31, 2020, 2019 and 2018 follows:

Details about Accumulated Other Comprehensive (Loss) Income Components	Amount Reclassified from Accumulated Other Comprehensive (Loss) Income 2020	2019	2018	Affected Line Item in the Statement Where Net Income is Presented
(Loss) gain on cash flow hedges:				
Recycling commodity hedges	$ —	$ —	$ 1.1	Revenue
Fuel hedges	—	—	4.3	Cost of operations
Terminated interest rate locks	(7.9)	(1.4)	(0.3)	Interest expense
Total before tax	(7.9)	(1.4)	5.1	
Tax expense	2.1	0.4	(1.3)	
Total (loss) gain reclassified into earnings, net of tax	$ (5.8)	$ (1.0)	$ 3.8	

18. FINANCIAL INSTRUMENTS

The effect of our derivative instruments in fair value and cash flow hedging relationships on the consolidated statements of income for the years ended December 31, 2020, 2019 and 2018 follows (in millions):

	Classification and Amount of Gain (Loss) Recognized in Income on Fair Value and Cash Flow Hedging Relationships		
	2020	2019	2018
	Interest Expense	Interest Expense	Interest Expense
Total amounts of expense line items presented in the consolidated statements of income in which the effects of fair value or cash flow hedges are recorded	$ (355.6)	$ (392.0)	$ (383.8)
The effects of fair value and cash flow hedging relationships in Subtopic 815-20:			
Gain (loss) on fair value hedging relationships:			
Interest rate swaps:			
Net swap settlements	$ 5.7	$ 1.0	$ 1.9
Net periodic earnings[(1)]	$ 2.0	$ 0.6	$ (0.4)
Effect of dedesignation	$ 4.7	$ —	$ —
Gain (loss) on cash flow hedging relationships:			
Interest rate swap locks:			
Amount of loss reclassified from accumulated other comprehensive (loss) income into income, net of tax	$ (5.8)	$ (1.0)	$ (0.2)
The effects of derivative instruments not in Subtopic 815-20:			
Loss on free-standing derivative instruments:			
Interest rate swaps:			
Loss on change in fair value of free-standing derivative instruments	$ (0.1)	$ —	$ —
Interest rate contract:			
Net (loss) on change in fair value of free-standing derivative instruments	$ (2.7)	$ (0.5)	$ —

(1) During 2018 (prior to adoption of ASU 2017-12), all net periodic earnings for fair value hedges were recorded to other income, net. To align the effect of the hedging relationship with the activity of the hedged item, beginning January 1, 2019, all net periodic earnings on fair value hedges are presented within interest expense in our consolidated statements of income.

Fair Value Measurements

In measuring fair values of assets and liabilities, we use valuation techniques that maximize the use of observable inputs (Level 1) and minimize the use of unobservable inputs (Level 3). We also use market data or assumptions that we believe market participants would use in pricing an asset or liability, including assumptions about risk when appropriate.

The carrying value for certain of our financial instruments, including cash, accounts receivable, accounts payable and certain other accrued liabilities, approximates fair value because of their short-term nature.

As of December 31, 2020 and 2019, our assets and liabilities that are measured at fair value on a recurring basis include the following:

	December 31, 2020				
		Fair Value			
	Carrying Amount	Total	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Assets:					
Money market mutual funds	$ 32.3	$ 32.3	$ 32.3	$ —	$ —
Bonds - restricted cash and marketable securities and other assets	73.8	73.8	—	73.8	—
Interest rate swaps - other assets	10.0	10.0	—	10.0	—
Other derivative assets - other assets	63.8	63.8	—	63.8	—
Total assets	$ 179.9	$ 179.9	$ 32.3	$ 147.6	$ —
Liabilities:					
Other derivative liabilities - other long-term liabilities	$ 103.0	$ 103.0	$ —	$ 103.0	$ —
Contingent consideration - other accrued liabilities and other long-term liabilities	70.6	70.6	—	—	70.6
Total liabilities	$ 173.6	$ 173.6	$ —	$ 103.0	$ 70.6

	December 31, 2019				
		Fair Value			
	Carrying Amount	Total	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Assets:					
Money market mutual funds	$ 43.0	$ 43.0	$ 43.0	$ —	$ —
Bonds - restricted cash and marketable securities and other assets	51.6	51.6	—	51.6	—
Interest rate swaps - other assets	10.7	10.7	—	10.7	—
Interest rate locks - prepaid expenses and other current assets	3.6	3.6	—	3.6	—
Other derivative assets - other assets	2.9	2.9	—	2.9	—
Total assets	$ 111.8	$ 111.8	$ 43.0	$ 68.8	$ —
Liabilities:					
Interest rate locks - other accrued liabilities and other long-term liabilities	$ 15.7	$ 15.7	$ —	$ 15.7	$ —
Other derivative liabilities - other long-term liabilities	22.2	22.2	—	22.2	—
Contingent consideration - other accrued liabilities and other long-term liabilities	72.0	72.0	—	—	72.0
Total liabilities	$ 109.9	$ 109.9	$ —	$ 37.9	$ 72.0

Total Debt

As of December 31, 2020 and 2019, the carrying value of our total debt was $8.9 billion and $8.7 billion, respectively, and the fair value of our total debt was $10.0 billion and $9.4 billion, respectively. The estimated fair value of our fixed rate senior notes and debentures is based on quoted market prices. The fair value of our remaining notes payable, tax-exempt financings and borrowings under our credit facilities approximates the carrying value because the interest rates are variable. The fair value estimates are based on Level 2 inputs of the fair value hierarchy as of December 31, 2020 and 2019. See Note 9, *Debt*, for further information related to our debt.

Contingent Consideration

In April 2015, we entered into a waste management contract with the County of Sonoma, California to operate the county's waste management facilities. As of December 31, 2020, the Sonoma contingent consideration represents the fair value of $64.2 million payable to the County of Sonoma based on the achievement of future annual tonnage targets through the expected remaining capacity of the landfill. The potential undiscounted amount of all future contingent payments that we could be required to make under the waste management contract is estimated to be between approximately $80 million and $100 million. During 2020, the activity in the contingent consideration liability included accretion, which was offset by concession payments made in the ordinary course of business. There were no changes to the estimate of fair value.

19. COMMITMENTS AND CONTINGENCIES

Legal Proceedings

We are subject to extensive and evolving laws and regulations and have implemented safeguards to respond to regulatory requirements. In the normal course of our business, we become involved in legal proceedings. Some may result in fines, penalties or judgments against us, or settlements, which may impact earnings and cash flows for a particular period. Although we cannot predict the ultimate outcome of any legal matter with certainty, we do not believe the outcome of any of our pending legal proceedings will have a material adverse impact on our consolidated financial position, results of operations or cash flows.

As used herein, the term *legal proceedings* refers to litigation and similar claims against us and our subsidiaries, excluding: (1) ordinary course accidents, general commercial liability and workers' compensation claims, which are covered by insurance programs, subject to customary deductibles, and which, together with insured employee health care costs, are discussed in Note 7, *Other Liabilities*; and (2) environmental remediation liabilities, which are discussed in Note 8, *Landfill and Environmental Costs.*

We accrue for legal proceedings when losses become probable and reasonably estimable. We have recorded an aggregate accrual of approximately $27 million relating to our outstanding legal proceedings as of December 31, 2020. As of the end of each applicable reporting period, we review each of our legal proceedings and, where it is probable that a liability has been incurred, we accrue for all probable and reasonably estimable losses. Where we can reasonably estimate a range of losses we may incur regarding such a matter, we record an accrual for the amount within the range that constitutes our best estimate. If we can reasonably estimate a range but no amount within the range appears to be a better estimate than any other, we use the amount that is the low end of such range. If we had used the high ends of such ranges, our aggregate potential liability would be approximately $10 million higher than the amount recorded as of December 31, 2020.

Unconditional Purchase Commitments

Royalties

We have entered into agreements to pay royalties to prior landowners or host communities, based on, among other things, revenue received and waste tonnage disposed at specified landfills. These royalties are generally payable quarterly and amounts incurred, but not paid, are accrued in our consolidated balance sheets. Royalties are accrued as revenue is received or tonnage is disposed of, as applicable, in the landfills.

Disposal Agreements

We have several agreements that require us to dispose of a minimum number of tons at third-party disposal facilities. Under these put-or-pay agreements, we must pay for agreed-upon minimum volumes regardless of the actual number of tons placed at the facilities.

Our unconditional purchase commitments have varying expiration dates, with some extending through the remaining life of the respective landfill. Future minimum payments under unconditional purchase commitments, consisting primarily of (1) disposal related agreements, which include fixed or minimum royalty payments, host agreements, and take-or-pay and put-or-pay agreements, and (2) other obligations including committed capital expenditures and consulting service agreements as of December 31, 2020 are as follows:

2021	$ 163.6
2022	97.0
2023	61.0
2024	53.4
2025	29.4
Thereafter	252.9
	$ 657.3

Cash and Cash Equivalents and Restricted Cash and Marketable Securities

Restricted cash and restricted cash equivalents are included with cash and cash equivalents when reconciling the beginning-of-period and end-of-period total amounts shown on the statements of cash flows. Beginning-of-period and end-of-period cash, cash equivalents, restricted cash and restricted cash equivalents as presented in the statements of cash flows are reconciled as follows:

	December 31, 2020	December 31, 2019	December 31, 2018
Cash and cash equivalents	$ 38.2	$ 47.1	$ 70.5
Restricted cash and marketable securities	149.1	179.4	108.1
Less: restricted marketable securities	(73.1)	(49.1)	(45.3)
Cash, cash equivalents, restricted cash and restricted cash equivalents	$ 114.2	$ 177.4	$ 133.3

Our restricted cash and marketable securities include, among other things, restricted cash and marketable securities pledged to regulatory agencies and governmental entities as financial guarantees of our performance under certain collection, landfill and transfer station contracts and permits, and relating to our final capping, closure and post-closure obligations at our landfills, restricted cash and marketable securities related to our insurance obligations, and restricted cash related to a payment for a certain maturing tax-exempt financing.

The following table summarizes our restricted cash and marketable securities as of December 31:

	2020	2019
Payment for maturing tax-exempt financing	$ —	$ 49.4
Capping, closure and post-closure obligations	31.5	30.6
Insurance	117.6	99.4
Total restricted cash and marketable securities	$ 149.1	$ 179.4

We must provide financial assurance to governmental agencies and a variety of other entities under applicable environmental regulations relating to our landfill operations for capping, closure and post-closure costs, and our performance under certain collection, landfill and transfer station contracts. We satisfy our financial assurance requirements by providing surety bonds, letters of credit, insurance policies or trust deposits. The amount of the financial assurance requirements for capping, closure and post-closure costs is determined by applicable state environmental regulations, which vary by state. The financial assurance requirements for capping, closure and post-closure costs can either be for costs associated with a portion of the landfill or the entire landfill. Generally, states will require a third-party engineering specialist to determine the estimated capping, closure and post-closure costs that are used to determine the required amount of financial assurance for a landfill. The amount of financial assurance required can, and generally will, differ from the obligation determined and recorded under U.S. GAAP. The amount of the financial assurance requirements related to contract performance varies by contract. Additionally, we are required to provide financial assurance for our insurance program and collateral for certain performance obligations.

We had the following financial instruments and collateral in place to secure our financial assurances as of December 31:

	2020	2019
Letters of credit	$ 474.2	$ 449.7
Surety bonds	$ 3,580.7	$ 3,460.8

We had $376.5 million and $351.4 million of letters of credit outstanding under our Credit Facility as of December 31, 2020 and 2019, respectively. Surety bonds subject to expiration will expire on various dates through 2026.

These financial instruments are issued in the normal course of business and are not classified as debt. Because we currently have no liability for this financial assurance, it is not reflected in our consolidated balance sheets. However, we have recorded capping, closure and post-closure obligations and insurance reserves as they are incurred.

We own a 19.9% interest in a company that, among other activities, issues financial surety bonds to secure capping, closure and post-closure obligations for companies operating in the environmental services industry. We account for this investment using an alternative measurement approach. There have been no identified events or changes in circumstances that may have a significant adverse effect on the recoverability of this investment. This investee company and the parent company of the investee had written surety bonds for us relating primarily to our landfill operations for capping, closure and post-closure, of which $1,371.1 million were outstanding as of December 31, 2020. Our reimbursement obligations under these bonds are secured by an indemnity agreement with the investee and a surety bond.

Off-Balance Sheet Arrangements

We have no off-balance sheet debt or similar obligations, other than short-term operating leases and financial assurances, which are not classified as debt. We have no transactions or obligations with related parties that are not disclosed, consolidated into or reflected in our reported financial position or results of operations. We have not guaranteed any third-party debt.

Guarantees

We enter into contracts in the normal course of business that include indemnification clauses. Indemnifications relating to known liabilities are recorded in the consolidated financial statements based on our best estimate of required future payments. Certain of these indemnifications relate to contingent events or occurrences, such as the imposition of additional taxes due to a change in the tax law or adverse interpretation of the tax law, and indemnifications made in divestiture agreements where we indemnify the buyer for liabilities that relate to our activities prior to the divestiture and that may become known in the future. We do not believe that these contingent obligations will have a material effect on our consolidated financial position, results of operations or cash flows.

We have entered into agreements with property owners to guarantee the value of property that is adjacent to certain of our landfills. These agreements have varying terms. We do not believe that these contingent obligations will have a material effect on our consolidated financial position, results of operations or cash flows.

Other Matters

Our business activities are conducted in the context of a developing and changing statutory and regulatory framework. Governmental regulation of the environmental services industry requires us to obtain and retain numerous governmental permits to conduct various aspects of our operations. These permits are subject to revocation, modification or denial. The costs and other capital expenditures that may be required to obtain or retain the applicable permits or comply with applicable regulations could be significant. Any revocation, modification or denial of permits could have a material adverse effect on us.

20. SELECTED QUARTERLY FINANCIAL DATA (unaudited)

The following table summarizes our unaudited consolidated quarterly results of operations as reported for December 31, 2020 and 2019:

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
2020:				
Revenue [1]	$ 2,553.9	$ 2,454.4	$ 2,572.1	$ 2,573.3
Operating income [1]	$ 433.0	$ 395.2	$ 447.9	$ 432.7
Net income	$ 246.8	$ 226.3	$ 260.2	$ 236.3
Net income attributable to Republic Services, Inc. [1]	$ 246.3	$ 225.5	$ 260.0	$ 235.5
Diluted earnings per common share [1]	$ 0.77	$ 0.71	$ 0.81	$ 0.74
2019:				
Revenue [1]	$ 2,470.6	$ 2,605.3	$ 2,646.9	$ 2,576.7
Operating income	$ 422.8	$ 437.4	$ 467.8	$ 459.2
Net income	$ 234.9	$ 250.9	$ 298.0	$ 290.0
Net income attributable to Republic Services, Inc.	$ 234.2	$ 251.5	$ 298.3	$ 289.3
Diluted earnings per common share	$ 0.72	$ 0.78	$ 0.93	$ 0.90

(1) Line items in these rows do not total to amounts reported in the consolidated financial statements due to rounding.

During the first quarter of 2020 and the fourth quarter of 2019, we recorded a reduction to remediation expense of $10.8 million and $24.0 million, respectively, related to insurance recoveries at our closed Bridgeton Landfill. Additionally, during the fourth quarter of 2020, we recognized a $42.6 million charge as a loss on business divestitures and impairments, net in our consolidated income statement resulting from management's decision to exit certain product offerings and geographic basins in our upstream environmental solutions business.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

REPORT OF MANAGEMENT ON REPUBLIC SERVICES, INC.'S INTERNAL CONTROL OVER FINANCIAL REPORTING

We, as members of management of Republic Services, Inc., are responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rule 13a-15(f). Internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. Internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect transactions and dispositions of our assets; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that our receipts and expenditures are being made only in accordance with authorizations of our management and directors; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of our assets that could have a material effect on the financial statements.

Because of its inherent limitations, our internal control systems and procedures may not prevent or detect misstatements. An internal control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, have been detected. Also, projections of any evaluation of effectiveness to future periods are subject to the risks that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies and procedures may deteriorate.

We, under the supervision of and with the participation of our management, including the Chief Executive Officer, Chief Financial Officer and Chief Accounting Officer, assessed the effectiveness of our internal control over financial reporting as of December 31, 2020, based on criteria for effective internal control over financial reporting described in Internal Control —

Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this assessment, we concluded that we maintained effective internal control over financial reporting as of December 31, 2020, based on the specified criteria.

Our internal control over financial reporting has been audited by Ernst & Young LLP, an independent registered public accounting firm, as stated in their attestation report which is included herein.

Disclosure Controls and Procedures

We carried out an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of our disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e), and 15d-15(e)) as of the end of the period covered by this Annual Report. Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective as of the end of the period covered by this Annual Report.

Changes in Internal Control Over Financial Reporting

Based on an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, there has been no change in our internal control over financial reporting during the quarter ended December 31, 2020 identified in connection with that evaluation, that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

In December 2020, we acquired all of the issued and outstanding equity interests of Randy's Sanitation, LLC and Randy's Rentals, LLC. Additionally, we acquired certain assets and assumed certain liabilities from Gallegos Sanitation, Inc. and related entities as well as Eagle Waste & Recycling, Inc. and related entities. As permitted by the SEC Staff interpretive guidance for newly acquired businesses, management's assessment of our internal control over financial reporting as of December 31, 2020 did not include an assessment of internal control over financial reporting as it relates to these acquisitions. We will continue the process of implementing internal controls over financial reporting for these acquired businesses. As of December 31, 2020, these businesses contributed less than 1% of revenue to our audited consolidated financial statements for the year ended December 31, 2020.

ITEM 9B. OTHER INFORMATION

None.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information required by this item is incorporated by reference to the material appearing under the headings Proposal 1 - Election of Directors, Biographical Information Regarding Directors/Nominees, Board of Directors and Corporate Governance Matters, Delinquent Section 16(a) Reports, and Executive Officers in the Proxy Statement for the 2021 Annual Meeting of Shareholders.

ITEM 11. EXECUTIVE COMPENSATION

Information required by this item is incorporated by reference to the material appearing under the headings Executive Compensation and Director Compensation in the Proxy Statement for the 2021 Annual Meeting of Shareholders.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Information required by this item is incorporated by reference to the material appearing under the headings Security Ownership of Five Percent Shareholders and Security Ownership of the Board of Directors and Management in the Proxy Statement for the 2021 Annual Meeting of Shareholders.

The following table sets forth certain information regarding equity compensation plans as of December 31, 2020 (number of securities in millions):

Plan Category	Number of Securities to be Issued Upon Exercise of Outstanding Options and Rights [b]	Weighted Average Exercise Price of Outstanding Options and Rights [c]	Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (excluding securities reflected in the first column) [d]
Equity compensation plans approved by security holders [a]	1.8	$ 91.49	31.1
Equity compensation plans not approved by security holders	—	—	—
Total	1.8	$ 91.49	31.1

(a) Includes our 2006 Plan, Amended and Restated 2007 Stock Incentive Plan and our 2018 Employee Stock Purchase Plan (ESPP).

(b) Includes zero stock options as all were exercised within 2020, 1.2 million shares underlying restricted stock units, 0.6 million shares underlying performance shares, and less than 0.1 million shares underlying purchase rights that accrue under the ESPP.

(c) Excludes restricted stock units and performance shares as these awards do not have exercise prices.

(d) The shares remaining available for future issuances include 12.8 million shares under our 2021 Stock Incentive Plan and 2.7 million shares under our ESPP. No further awards will be granted under the Amended and Restated 2007 Stock Incentive Plan after December 31, 2020.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

Information required by this item is incorporated by reference to the material appearing under the headings Board of Directors and Corporate Governance Matters and Certain Relationships and Related Party Transactions in the Proxy Statement for the 2021 Annual Meeting of Shareholders.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Information required by this item is incorporated by reference to the material appearing under the heading Audit and Related Fees in the Proxy Statement for the 2021 Annual Meeting of Shareholders.

PART IV

ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

(a) The following documents are filed as part of this report:

1. Financial Statements

Our consolidated financial statements are set forth under Item 8 of this Form 10-K.

2. Financial Statement Schedules

All schedules are omitted as the required information is not applicable or the information is presented in the consolidated financial statements and notes thereto in Item 8 of this Form 10-K.

3. Exhibits

The following exhibits are filed herewith or are incorporated by reference to exhibits previously filed with the SEC, as indicated in the description of each, File No. 1-14267 in the case of Republic and File No. 1-14705 and No. 0-19285 in the case of Allied, and File No. 1-06805 in the case of Browning-Ferris Industries, Inc..

Exhibit Number	Description
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 of the Company's Quarterly Report on Form 10-Q for the period ended June 30, 1998).
3.2	Certificate of Amendment of Amended and Restated Certificate of Incorporation of Republic Services, Inc. (incorporated by reference to Exhibit 4.2 of the Company's Registration Statement on Form S-8, Registration No. 333-81801, filed with the Commission on June 29, 1999).
3.3	Amended and Restated Bylaws of Republic Services, Inc. (incorporated by reference to Exhibit 3.3 of the Company's Current Report on Form 8-K dated May 6, 2016).
4.1	Republic Services, Inc. Common Stock Certificate (incorporated by reference to Exhibit 4.4 of the Company's Registration Statement on Form S-8, Registration No. 333-81801, filed with the Commission on June 29, 1999).
4.2	Indenture, dated as of August 15, 2001 between Republic Services, Inc. and The Bank of New York, as trustee, including the form of notes (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed August 16, 2001).
4.3	Second Supplemental Indenture, dated as of March 21, 2005, to the Indenture dated as of August 15, 2001, by and between Republic Services, Inc. and The Bank of New York, as trustee, including the form of 6.086% Note due March 15, 2035 (incorporated by reference to Exhibit 4.1 of the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2005).
4.4	Indenture, dated as of September 8, 2009, by and between Republic Services, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated September 9, 2009).
4.5	Third Supplemental Indenture, dated as of May 9, 2011, to the Indenture dated as of September 8, 2009, by and among Republic Services, Inc., the guarantors named therein and The Bank of New York Mellon Trust Company, N.A., as trustee, including the form of 4.750% Notes due 2023 (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K dated May 9, 2011).
4.6	Fourth Supplemental Indenture, dated as of May 9, 2011, to the Indenture dated as of September 8, 2009, by and among Republic Services, Inc., the guarantors named therein and The Bank of New York Mellon Trust Company, N.A., as trustee, including the form of 5.700% Notes due 2041 (incorporated by reference to Exhibit 4.3 of the Company's Current Report on Form 8-K dated May 9, 2011).
4.7	Indenture, dated as of November 25, 2009, by and between Republic Services, Inc. and U.S. Bank National Association, as trustee (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated November 25, 2009).
4.8	Third Supplemental Indenture, dated as of March 4, 2010, to the Indenture dated as of November 25, 2009, by and among Republic Services, Inc., the guarantors named therein and U.S. Bank National Association, as trustee, including the form of 6.20% Notes due 2040 (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K dated March 4, 2010).
4.9	Indenture, dated as of May 21, 2012, by and between Republic Services, Inc. and Wells Fargo Bank, National Association, as trustee (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated May 21, 2012).

Exhibit Number	Description
4.10	Restated Indenture, dated as of September 1, 1991, by and between Browning-Ferris Industries, Inc. and First City, Texas-Houston, National Association, as trustee (incorporated by reference to Exhibit 4.22 of Allied's Registration Statement on Form S-4/A (No. 333-61744)).
4.11	First Supplemental Indenture, dated as of July 30, 1999, to the Restated Indenture dated as of September 1, 1991, by and among Allied Waste Industries, Inc., Allied Waste North America, Inc., Browning-Ferris Industries, Inc. and Chase Bank of Texas, National Association, as trustee (incorporated by reference to Exhibit 4.23 of Allied's Registration Statement on Form S-4/A (No. 333-61744)).
4.12	First [sic] Supplemental Indenture, dated as of December 31, 2004, to the Restated Indenture dated as of September 1, 1991, by and among Browning-Ferris Industries, Inc., BBCO, Inc. and JP Morgan Chase Bank, National Association as trustee (incorporated by reference to Exhibit 4.33 of Allied's Annual Report on Form 10-K for the year ended December 31, 2004).
4.13	Third Supplemental Indenture, dated as of December 5, 2008, to the Restated Indenture dated as of September 1, 1991, by and among Allied Waste Industries, Inc., Allied Waste North America, Inc., Browning-Ferris Industries, LLC (successor to Browning-Ferris Industries, Inc.), BBCO, Inc., Republic Services, Inc., the guarantors party thereto and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated December 10, 2008).
4.14	Fourth Supplemental Indenture, dated as of March 11, 2015, to the Indenture, dated as of November 25, 2009, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 3.20% Notes due 2025 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated March 11, 2015).
4.15	Fifth Supplemental Indenture, dated as of July 5, 2016, to the Indenture, dated as of November 25, 2009, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 2.900% Notes due 2026 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated July 5, 2016).
4.16	Sixth Supplemental Indenture, dated as of November 16, 2017, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 3.375% Notes due 2027 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated November 15, 2017).
4.17	Form of Browning-Ferris Industries, Inc. 7.4% Debentures due 2035 (incorporated by reference to Exhibit 4 of Browning-Ferris Industries, Inc.'s Current Report on Form 8-K dated September 15, 1995).
4.18	Credit Agreement, dated as of June 8, 2018, by and among Republic Services, Inc., as Borrower, Bank of America, N.A., as Administrative Agent, Swing Line Lender and L/C Issuer, and the other lenders party thereto (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated June 11, 2018).
4.19	Amendment No.1, dated as of May 18, 2020, to Credit Agreement, dated as of June 8, 2018, by and among Republic Services, Inc., as Borrower, Bank of America, N.A., as Administrative Agent, Swing Line Lender and L/C Issuer, and the other lenders party thereto (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated May 21, 2020).
4.20	Amendment No. 2, dated as of July 14, 2020, to Credit Agreement, dated as of June 8, 2018, as amended, by and among Republic Services, Inc., as Borrower, Bank of America, N.A., as Administrative Agent, Swing Line Lender and L/C Issuer, and the other lenders party thereto (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated July 17, 2020).
4.21	Amendment No. 3, dated as of August 25, 2020, to Credit Agreement, dated as of June 8, 2018, as amended, by and among Republic Services, Inc., as Borrower, Bank of America, N.A., as Administrative Agent, Swing Line Lender and L/C Issuer, and the other lenders party thereto (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K dated August 27, 2020).
4.22	Credit Agreement, dated as of August 25, 2020, by and among Republic Services, Inc., as Borrower, Bank of America, N.A., as Administrative Agent, and the other lenders party thereto (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated August 27, 2020).
4.23	Seventh Supplemental Indenture, dated as of May 14, 2018, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 3.950% Notes due 2028 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated May 3, 2018).
4.24	Limited consent (2018 Credit Agreement), dated as of August 21, 2019, by and among Republic Services, Inc., as Borrower, Bank of America, N.A., as Administrative Agent, Swing Line Lender and an L/C Issuer, and the lenders party thereto (incorporated by reference to Exhibit 4.1 of the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2019).

Exhibit Number	Description
4.25	Description of Securities Registered Under Section 12 of the Securities Exchange Act of 1934 (incorporated by reference to Exhibit 4.23 of the Company's Annual Report on Form 10-K for the year ended December 31, 2019).
4.26	Eighth Supplemental Indenture, dated as of August 7, 2019, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 2.500% Notes due 2024 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated August 1, 2019).
4.27	Ninth Supplemental Indenture, dated as of February 27, 2020, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 2.300% Notes due 2030 and the form of 3.050% Notes due 2050 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated February 21, 2020).
4.28	Tenth Supplemental Indenture, dated as of August 20, 2020, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 1.450% Notes due 2031 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated August 13, 2020).
4.29	Eleventh Supplemental Indenture, dated as of November 24, 2020, between Republic Services, Inc. and U.S. Bank National Association, as trustee, including the form of 0.875% Notes due 2025 and the form of 1.750% Notes due 2032 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K dated November 12, 2020).
10.1+	Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan effective May 12, 2011 (incorporated by reference to Appendix A of the Company's Proxy Statement on Schedule 14A filed on April 1, 2011).
10.2+	Republic Services, Inc. Executive Incentive Plan, as amended and restated effective October 26, 2020 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2020).
10.3+	Form of Employee Restricted Stock Unit Agreement under the Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan (for awards on or after December 27, 2011) (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated December 27, 2011).
10.4+	Form of Non-Employee Director Restricted Stock Unit Agreement (annual vesting) under the Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan (for awards on or after December 27, 2011) (incorporated by reference to Exhibit 10.2 of the Company's Current Report on Form 8-K dated December 27, 2011).
10.5+	Form of Non-Employee Director Restricted Stock Unit Agreement (3 year vesting) under the Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan (for awards on or after December 27, 2011) (incorporated by reference to Exhibit 10.3 of the Company's Current Report on Form 8-K dated December 27, 2011).
10.6+	Republic Services, Inc. Deferred Compensation Plan, as amended and restated effective January 1, 2010 (incorporated by reference to Exhibit 4.4 of the Company's Registration Statement on Form S-8, Registration No. 333-170174, filed with the SEC on October 27, 2010).
10.7+	Amendment No. 1 to Republic Services, Inc. Deferred Compensation Plan, effective January 6, 2011 (incorporated by reference to Exhibit 10.17 of the Company's Annual Report on Form 10-K for the year ended December 31, 2010).
10.8+	Republic Services, Inc. Amended and Restated Executive Incentive Plan, effective February 4, 2014 (incorporated by reference to Appendix A of the Company's Proxy Statement on Schedule 14A filed on March 26, 2014).
10.9+	Employment Agreement, effective as of October 29, 2013, by and between Republic Services, Inc. and Donald W. Slager (incorporated by reference to Exhibit 10.1 of the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2013).
10.10+	Amended and Restated Employment Agreement, effective December 8, 2008, by and between Jeffrey A. Hughes and Republic Services, Inc. (incorporated by reference to Exhibit 10.61 of the Company's Annual Report on Form 10-K for the year ended December 31, 2012).
10.11+	Republic Services, Inc. Executive Separation Policy, as amended as of March 29, 2012 (incorporated by reference to Exhibit 10.2 of the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2012).
10.12+	Amendment No. 2 to Republic Services, Inc. Deferred Compensation Plan, effective February 7, 2012 (incorporated by reference to Exhibit 10.3 of the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2012).

Exhibit Number	Description
10.13+	Republic Services, Inc. Amended and Restated 2007 Stock Incentive Plan effective May 9, 2013 (incorporated by reference to Exhibit 10.1 of the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2013).
10.14+	Amendment No. 3 to Republic Services, Inc. Deferred Compensation Plan, effective October 29, 2013 (incorporated by reference to Exhibit 10.3 of the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2013).
10.15+	Offer Letter, dated August 22, 2014, by and between Charles F. Serianni and Republic Services, Inc. (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated August 25, 2014).
10.16+	Clawback Policy, dated October 29, 2014 (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated October 30, 2014).
10.17+	First Amendment to the Employment Agreement, dated December 23, 2014, by and between Donald W. Slager and Republic Services, Inc. (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated December 24, 2014).
10.18+	Form of Performance Share Agreement, adopted January 7, 2015 (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K dated January 9, 2015).
10.19+	Form of Employee Restricted Stock Unit Agreement - Senior Executive, adopted January 7, 2015 (incorporated by reference to Exhibit 10.2 of the Company's Current Report on Form 8-K dated January 9, 2015).
10.20+	Amendment No. 4 to Republic Services, Inc. Deferred Compensation Plan, effective January 1, 2015 (incorporated by reference to Exhibit 10.53 of the Company's Annual Report on Form 10-K for the year ended December 31, 2014).
10.21+	Offer Letter, dated July 25, 2016, by and between Catharine D. Ellingsen and Republic Services, Inc. (incorporated by reference to Exhibit 10.37 of the Company's Annual Report on Form 10-K dated February 16, 2017).
10.22+	Non-Competition, Non-Solicitation, Confidentiality and Arbitration Agreement, effective June 13, 2016, by and between Catharine D. Ellingsen and Republic Services, Inc. (incorporated by reference to Exhibit 10.38 of the Company's Annual Report on Form 10-K dated February 16, 2017).
10.23+	Republic Services, Inc. 2018 Employee Stock Purchase Plan (incorporated by reference to Annex A of the Company's Proxy Statement on Schedule 14A filed on March 29, 2018).
10.24+	Offer Letter, dated April 29, 2019, by and between Jon Vander Ark and Republic Services, Inc. (incorporated by reference to Exhibit 10.1 of the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019).
10.25+	Non-Competition, Non-Solicitation, Confidentiality and Arbitration Agreement, effective May 1, 2019, by and between Jon Vander Ark and Republic Services, Inc. (incorporated by reference to Exhibit 10.2 of the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019).
10.26+	Offer Letter, dated April 29, 2019, by and between Timothy Stuart and Republic Services, Inc. (incorporated by reference to Exhibit 10.3 of the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019).
10.27+	Non-Competition, Non-Solicitation, Confidentiality and Arbitration Agreement, effective May 1, 2019, by and between Timothy Stuart and Republic Services, Inc. (incorporated by reference to Exhibit 10.4 of the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019).
10.28+	Offer letter, dated May 29, 2020, by and between Brian DelGhiaccio and Republic Services, Inc. (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2020).
10.29+	Non-Competition, Non-Solicitation, and Confidentiality Agreement, effective June 1, 2020, by and between Brian DelGhiaccio and Republic Services, Inc. (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2020).
10.30+*	Republic Services, Inc. 2021 Stock Incentive Plan.
10.31+*	Form of Performance Share Agreement (Executive Officer) under the Republic Services, Inc. 2021 Stock Incentive Plan.
10.32+*	Form of Performance Share Agreement (Other Executive) under the Republic Services, Inc. 2021 Stock Incentive Plan.
10.33+*	Form of Performance Share Agreement (Non-Executive Officer EVP) under the Republic Services, Inc. 2021 Stock Incentive Plan.

Exhibit Number	Description
10.34+*	Form of Employee Restricted Stock Unit Agreement (Senior Executive) under the Republic Services, Inc. 2021 Stock Incentive Plan.
10.35+*	Form of Employee Restricted Stock Unit Agreement (Senior Executive, Cliff Vesting) under the Republic Services, Inc. 2021 Stock Incentive Plan.
10.36+*	Form of Employee Restricted Stock Unit Agreement (Other Employees) under the Republic Services, Inc. 2021 Stock Incentive Plan.
21.1*	Subsidiaries of the Company.
23.1*	Consent of Ernst & Young LLP.
31.1*	Rule 13a-14(a)/15d-14(a) Certification of Chief Executive Officer.
31.2*	Rule 13a-14(a)/15d-14(a) Certification of Chief Financial Officer.
32.1**	Section 1350 Certification of Chief Executive Officer.
32.2**	Section 1350 Certification of Chief Financial Officer.
101.INS*	XBRL Instance Document. - the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document.
101.SCH*	XBRL Taxonomy Extension Schema Document.
101.CAL*	XBRL Taxonomy Extension Calculation Linkbase Document.
101.LAB*	XBRL Taxonomy Extension Labels Linkbase Document.
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase Document.
101.DEF*	XBRL Taxonomy Extension Definition Linkbase Document.
104*	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).

* Filed herewith.

** This exhibit is being furnished rather than filed, and shall not be deemed incorporated by reference into any filing, in accordance with Item 601 of Regulation S-K.

\+ Indicates a management or compensatory plan or arrangement.

Pursuant to Item 601(b)(4)(iii)(A) of Regulation S-K, the Company has not filed as exhibits to this Form 10-K certain long-term debt instruments under which the total amount of securities authorized does not exceed 10% of the total assets of the Company and its subsidiaries on a consolidated basis. The Company hereby agrees to furnish a copy of any such instrument to the SEC upon request.

ITEM 16. FORM 10-K SUMMARY

None.

Signatures

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2021

REPUBLIC SERVICES, INC.

By: /s/ DONALD W. SLAGER
Donald W. Slager

Chief Executive Officer
(Principal Executive Officer)

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

Signature	Title	Date
/s/ DONALD W. SLAGER Donald W. Slager	Chief Executive Officer and Director (Principal Executive Officer)	February 22, 2021
/s/ BRIAN DELGHIACCIO Brian DelGhiaccio	Executive Vice President, Chief Financial Officer (Principal Financial Officer)	February 22, 2021
/s/ BRIAN A. GOEBEL Brian A. Goebel	Vice President and Chief Accounting Officer (Principal Accounting Officer)	February 22, 2021
/s/ MANUEL KADRE Manuel Kadre	Chairman of the Board of Directors	February 22, 2021
/s/ TOMAGO COLLINS Tomago Collins	Director	February 22, 2021
/s/ MICHAEL A. DUFFY Michael A. Duffy	Director	February 22, 2021
/s/ THOMAS W. HANDLEY Thomas W. Handley	Director	February 22, 2021
/s/ JENNIFER M. KIRK Jennifer M. Kirk	Director	February 22, 2021
/s/ MICHAEL LARSON Michael Larson	Director	February 22, 2021
/s/ KIM S. PEGULA Kim S. Pegula	Director	February 22, 2021

/s/ JAMES P. SNEE James P. Snee	Director	February 22, 2021
/s/ SANDRA M. VOLPE Sandra M. Volpe	Director	February 22, 2021
/s/ KATHARINE B. WEYMOUTH Katharine B. Weymouth	Director	February 22, 2021

City of North Lauderdale

Request for Proposal #21-03-404

April 29, 2020 3:00 PM

Solid Waste Services



Submitted by: Republic Services of Florida, Limited Partnership

Jean-Pierre Turgot– General Manager

751 NW 31st Avenue

Lauderhill, FL 33311

954-327-9555

Joanne Stanley– Manager ,Municipal Services

REPUBLIC SERVICES

We'll handle it from here.™

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Transmittal Letter

April 26, 2021

City of North Lauderdale
Attn: Andrew Rozwadowski—Purchasing and Contracts Manager
701 SW 71st Avenue,
North Lauderdale, FL 33068,

RE: Transmittal letter for RFP #21-03-404 Solid Waste Services

Dear Mr. Rozwadoski,

Attached to this letter is the complete response to the "Request for Proposal #21-03-404 "Solid Waste Services." for the City of North Lauderdale (City). On behalf of Republic Services of Florida, Limited Partnership (Republic), we appreciate the opportunity to submit our proposal and look forward to your response.

Republic warrants that it has accepted the following responsibilities with the submittal of this RFP:

1. Republic examined the RFP package, including all enclosures and the proposed agreement, thoroughly
2. This proposal is an irrevocable offer for 90 days from proposal opening.
3. Knows and is familiar with local conditions and geography that may affect the cost, permitting performance, or services described in the RFP, including inspection of the residential and commercial areas.
4. Republic considered all federal, state, and local laws, statutes, ordinances, regulations, and other applicable laws that may affect costs, permitting, progress, performance, or services.
4.. Republic Services has not collaborated or discussed the proposal's content or service fees proposed with the other Proposers.
5. Republic will service the City of North Lauderdale residential garbage, recycling, and commercial with Compress Natural Gas trucks.
6. Will provide" Samara System" on all residential curbside garbage and recycling trucks. This will include all residential spare collection equipment. The subcontractor, EWS, will use Third Eye Technology on residential bulk and yard waste collection equipment.
7. Has received and reviewed three addenda issued by the City of North Lauderdale:
    a. Addendum #1 — 3/31/2021
    b. Addendum #2 — 4/13/2021
    c. Addendum #3 — 4/21/2021
    d. Addendum #4- 4/22/2021

In Summary, Republic will continue to have its base of operations in Lauderhill, Florida. Republic will use the designated disposal facilities to dispose of residential, commercial, and industrial solid waste, bulk, and yard waste. Republic will also use the City's designated site for recovered materials collected from residential and multi-family routes.

Republic has no doubt that it will execute a plan to create a smooth transition for the City of North Lauderdale. Republic intends to work as closely with the incumbent as they permit the free flow of information to prevent any bumps or issues during the transition period

Republic operates in every major market in Florida with contracts of similar or larger sizes to North Lauderdale. Republic is fully qualified and experienced in handling solid waste and recycling collections services for North Lauderdale. Additionally, with a nationwide fleet with over 15,000 trucks and more than 35,000 workers, the City can rest assured that Republic will be able to handle any emergency in an expeditious time frame.

Please coordinate all correspondence concerning the RFP to Jean-Pierre Turgot, General Manager, who is authorized to obligate Republic (see attached Certificate of Secretary) contractually:

Republic Services of Florida, Limited Partnership
Attn: Jean-Pierre Turgot- General Manager
751 NW 31st Avenue
Lauderhill, FL 33311
(954) 327-9555 direct
(954) 279-9293 cell
jturgot@republicservices.com

Should a contract be awarded to Republic, the entity agreeing with the City of North Lauderdale will be "Republic Services of Florida, Limited Partnership.

We look forward to the opportunity to serve the City of North Lauderdale. Republic Services takes pride in partnering with our municipalities in the State of Florida. We appreciate the opportunity to submit a proposal, and we will patiently wait for the outcome of this process.

Sincerely,

04/26/2021

Jean-Pierre Turgot
General Manager
Republic Services of Florida, Limited Partnership

CERTIFICATE OF SECRETARY

RELATING TO THE BID OR PROPOSAL TO PROVIDE SOLID WASTE SERVICES (RFP #21-03-404) FOR THE CITY OF NORTH LAUDERDALE IN THE STATE OF FLORIDA

The undersigned, Secretary of **REPUBLIC SERVICES OF FLORIDA GP, INC.**, a Delaware corporation, the general partner (the "General Partner") of **REPUBLIC SERVICES OF FLORIDA, LIMITED PARTNERSHIP**, a Delaware limited partnership (the "Partnership") hereby certifies that the following is a true and correct copy of the resolution which was duly adopted by written consent of the General Partner on February 24, 2016, that such resolution has not been rescinded, amended or modified in any respect, and is in full force and effect on the date hereof:

RESOLVED, that (i) any individual at the time holding the position of General Manager or Area Director, Finance be, and each of them hereby is, appointed as an Authorized Agent, to act in the name and on behalf of the General Partner, in its capacity as the General Partner of the Partnership, and to include the execution of related documents, in connection with the day-to-day business activities of the Partnership, and further, that (ii) in addition to the General Manager or Area Director, Finance, any individual at the time holding the position of Area Director, Business Development; Area Director, Operations; or Market Vice President be, and each of them hereby is, appointed as an Authorized Agent to execute any bid and proposal, and if awarded, any related contract for services to be performed by the Partnership and any bond required by such bid, proposal or contract, all in accordance with the existing Levels of Authority and other relevant policies and procedures.

I further certify that **JEAN-PIERRE TURGOT** holds the title of General Manager and in such capacity has full authority to act in the name and on behalf of the Partnership as set forth in the foregoing resolution.

WITNESS MY HAND, this 25th day of March, 2021.

Eileen B. Schuler, Secretary

II. Required Forms

All Proposal Requirements Outlined Above

Republic Services has complied with all the requirements and has included the forms required for the RFP.

Drug-Free Workplace Form

Purchasing and Contracts Division

VENDOR DRUG-FREE WORKPLACE

Preference may be given to vendors submitting a certification with their bid/proposal certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991. The special condition is as follows:

IDENTICAL TIE BIDS - Preference may be given to businesses with drug-free workplace programs. Whenever two or more bids that are equal with respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifies the actions taken against employees for violations of such prohibition.

2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

3. Give each employee engaged in providing the commodities or contractual services that are underbid a copy of the statement specified in subsection (1).

4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are underbid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after each conviction.

5. Impose a section on, or require satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by any employee who is so convicted.

6. Make a good faith effort to continue to maintain a drug-free workplace through the implementation of this section. As the person authorized to sign the statement, I certify that this form complies fully with the above requirements.

03/24/2021

Jean-Pierre Turgot- General Manager
Authorized Signature

Republic Services of Florida, Limited Partnership
Company Name

Drug Free Work Place Certificate

Addenda Acknowledgement Form

ADDENDA ACKNOWLEDGMENT FORM

Addenda may be issued up to the date/time specified in the calendar on Page 2 of the solicitation.

RESPONDER'S NAME: Republic Services of Florida, Limited Partnership

The undersigned acknowledges receipt of the following addenda to the solicitation or acknowledgement that no addenda were issued:

Pre-Bid/Pre-Proposal Minutes

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: April 23, 2021

Addendum No. 1

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: April 23, 2021

Addendum No. 2

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: April 23, 2021

Addendum No. 3

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: April 23, 2021

Addendum No. 4

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: 04/23/2021

Addendum No. 5

Print Name of Representative: Jean-Pierre Turgot

Sign: 04232021 Dated: 04/23/2021

No Addenda Were Issued for this Solicitation

Print Name of Representative: _____

Sign: _____ Dated: _____

Bid Bond

AIA® Document A310™ – 2010

Bid Bond

CONTRACTOR:
(Name, legal status and address)

Republic Services of Florida, Limited Partnership

SURETY:
(Name, legal status and principal place of business)

Travelers Casualty and Surety Company of America

OWNER:
(Name, legal status and address)

City of North Lauderdale

BOND AMOUNT: $ Fifty Thousand Dollars and 00/100 ($50,000.00)

PROJECT:
(Name, location or address, and Project number, if any)

RFP #21-03-404 Solid Waste Services

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Init. /

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User Notes: (1177639241)

Signed and sealed this 20th day of April, 2021.

Holly E. Ulfers
(Witness) Holly E. Ulfers

Debbie Lindstrom
(Witness) Debbie Lindstrom

Republic Services of Florida, Limited Partnership

(Contractor as Principal) (Seal)

Kathleen M. Mitchell, Attorney-in-Fact
(Title)

Travelers Casualty and Surety Company of America

(Surety) (Seal)

Amber Engel, Attorney-in-Fact
(Title)

Init.
/

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User Notes: (1177639241)

2

REPUBLIC SERVICES

POWER OF ATTORNEY

REPUBLIC SERVICES, INC., a Delaware corporation having its principal place of business at 18500 N. Allied Way, Phoenix, Arizona 85054, hereby makes, constitutes and appoints KIBBLE & PRENTICE HOLDING COMPANY dba USI INSURANCE SERVICES NORTHWEST, acting through and by any one of Debbie Lindstrom, Timothy S. Buhite, Kathleen M. Mitchell, Scott C. Alderman, Peggy A. Firth, Amber Engel, Jamie Armfield, Holly E. Ulfers, or Roxana Palacios, its true and lawful attorney to sign and seal any and all surety bonds, bid bonds, performance bonds and payment bonds at or below the monetary threshold of Five Million Dollars ($5,000,000.00) on behalf of REPUBLIC SERVICES, INC. and its subsidiaries, relating to the provision of solid waste collection, transportation, transfer, recycling, disposal and/or energy services by REPUBLIC SERVICES, INC. and its subsidiaries and affix its corporate seal to and deliver for and on behalf as surety thereon or otherwise, bonds of any of the following classes, to wit:

1. Surety bonds, bid bonds, performance bonds and payment bonds to the United States of America or agency thereof, including those required or permitted under the laws or regulations relating to Customs or Internal Revenue; license and permit bonds or other indemnity bonds under the laws, ordinances or regulations of any state, city, town, village, board, other body organization, public or private; bonds to transportation companies; lost instrument bonds; lease bonds; worker's compensation bonds; miscellaneous surety bonds; and bonds on behalf of notaries public, sheriffs, deputy sheriffs and similar public officials.

2. Surety bonds, bid bonds, performance bonds and payment bonds on behalf of REPUBLIC SERVICES, INC. and its subsidiaries in connection with bids, proposals or contracts.

REPUBLIC SERVICES, INC. hereby agrees to ratify and confirm whatsoever KIBBLE & PRENTICE HOLDING COMPANY dba USI INSURANCE SERVICES NORTHWEST shall lawfully do pursuant to this power of attorney, and until notice or revocation has been given by REPUBLIC SERVICES, INC., the acts of said attorney shall be binding on the undersigned.

IN WITNESS WHEREOF, this Power of Attorney has been signed this 3RD day of NOVEMBER, 2020 on behalf of REPUBLIC SERVICES, INC. by its Assistant Secretary, Eileen B. Schuler.

REPUBLIC SERVICES, INC.,
a Delaware corporation

Eileen B. Schuler

STATE OF ARIZONA

COUNTY OF MARICOPA

~~Subscribed and sworn to before me this 3RD~~ day of NOVEMBER, 2020 by Eileen B. Schuler, Assistant Secretary.

Matthew Nordquist
Notary Public
Maricopa County, Arizona
My Comm. Expires 05-31-23
Commission No. 563802

Notary Public

CERTIFICATE

I, the undersigned, Eileen B. Schuler, Assistant Secretary of Republic Services, Inc., a Delaware corporation, do hereby certify that the foregoing Power of Attorney is true, correct, remains in full force and effect, and has not been revoked.

IN WITNESS WHEREOF, this Certification has been signed this 20th day of April, 2021 on behalf of REPUBLIC SERVICES, INC. by its Assistant Secretary, Eileen B. Schuler.

Eileen B. Schuler

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company
Farmington Casualty Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, St. Paul Fire and Marine Insurance Company, and Farmington Casualty Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Amber Engel** of **Seattle, WA**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law, including the following bond:

Surety Bond No.: Bid Bond
OR
Project Description: RFP #21-03-404 Solid Waste Services

Principal: Republic Services of Florida, Limited Partnership
Obligee: City of North Lauderdale

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **6th** day of **May, 2019.**

State of Connecticut

By: _____
Robert L. Raney, Senior Vice President

City of Hartford ss.

On this the **6th** day of **May, 2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 20th day of April, 2021.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

USI Insurance Services
601 Union Street
Suite 1000
Seattle, WA 98101
www.usi.com
Tel: 206.441.6300

LETTER OF INTENT

4/20/2021

City of North Lauderdale
701 SW 71st Avenue
North Lauderdale, FL 33068

RE: Republic Services of Florida, Limited Partnership
RFP #21-03-404 Solid Waste Services

Gentlemen:

We are writing to you at the request of Republic Services of Florida, Limited Partnership. This principal has or is about to submit a Bid proposal for RFP #21-03-404 Solid Waste Services.

If a contract for this work is awarded to Republic Services of Florida, Limited Partnership, Travelers Casualty and Surety Company of America, a surety licensed to conduct business in the State of FL, has agreed to act as surety to issue the required Performance Bond which is a condition of awarding of this contract.

Please let us know if you need anything further in this regard.

Sincerely,

Amber Engel
Attorney-in-Fact
Travelers Casualty and Surety Company of America

Bond No.:_____

Performance Bond

KNOW ALL BY THESE PRESENTS, That we _____, as Principal and _____, of _____, authorized to do business in the State of _____, as Surety, are held and firmly bound unto _____ _____ as Obligee, in the maximum penal sum of _____ _____ Dollars (_____), lawful money of the United States of America, for which payment well and truly to be made we bind ourselves, our heirs, executors and assigns, jointly and severally, firmly by this Bond.

WHEREAS, the Principal has entered, or is about to enter, into a written agreement with the Obligee to perform in accordance with the terms and conditions of the _____ _____ (hereinafter referred to as the Contract), said Contract is hereby referred to and made a part hereof;

NOW, THEREFORE, the condition of this obligation is such that if the above name Principal, its successors and assigns, shall well and truly perform its obligation as set forth in the above mentioned Contract, then this Bond shall be void; otherwise to remain in full force and effect pursuant to its terms.

Notwithstanding anything to the contrary in the Contract, the Bond is subject to the following express conditions:

1. Whereas, the Obligee has agreed to accept this Bond, this Bond shall be effective for the definite period of _____ to _____. The Bond may be extended, at the sole option of the Surety, by continuation certificate for additional periods from the expiry date hereof. However, neither: (a) the Surety's decision not to issue a continuation certificate, nor (b) the failure or inability of the Principal to file a replacement bond or other security in the event the Surety exercises its right to not renew, shall itself constitute a loss to the Obligee recoverable under this Bond or any extension thereof.
2. If there is no breach or default on the part of the Obligee, then the Surety's performance obligation under the bond shall only arise after:
   a. The Obligee has notified the Principal and the Surety in writing at their respective addresses of the alleged breach with a detailed description thereof, and has requested and attempted to arrange a conference with the Principal and the Surety to be held not later than fifteen (15) days after receipt of such notice to discuss methods of performing the Contract; and has made available during the notice period all books, records, and accounts relevant to the Contract which may be requested by the Principal or Surety. If the Obligee, Principal and Surety agree, the Principal shall be allowed a reasonable time to perform the Contract; but such an agreement shall not waive the Obligee's right, if any, to subsequently declare a Principal default;
   b. The Obligee has declared the Principal in default and formally terminated the Principal's right to complete the Contract, provided, however, that such default shall not be declared earlier than twenty (20) days after the Principal and the Surety have received the notice as provided in "a" above; and
   c. The Obligee has agreed to pay the balance of the Contract price to the Surety in accordance with the terms of the Contract or to the such contractor as may be tendered by the Surety to the Obligee.

3. No claim, action, suit or proceeding, except as hereinafter set forth shall be had or maintained against the Surety on this instrument unless such claim, action, suit or proceeding is brought or instituted upon the Surety within six months from termination or expiration of the bond term.
4. Regardless of the number of years this Bond is in force or the number of continuation certificates issued, the liability of the Surety shall not be cumulative in amounts from period to period and shall in no event exceed the amount set forth above, or as amended by rider.
5. Any notice, demand, certification or request for payment, made under this Bond shall be made in writing to the Surety at the address specified below. Any demand or request for payment must be made prior to the expiry date of this Bond.

Surety Address:

Attn:_____

SIGNED, SEALED AND DATED this _____ day of _____, _____.

_____
Principal

By:_____

_____
Surety

By:_____
Attorney-in-Fact

SAMPLE

Anti-Lobbying Certification

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.

2. Identify the status of the covered Federal action.

3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.

4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.

5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.

6. Enter the name of the federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.

7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.

8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitations for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Included prefixes, e.g., "RFP-19-90-001."

9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.

10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.

    (b) Enter the full names of the individual(s) performing services, and include full address if different from 10(a). Enter Last Name, First Name, and Middle Initial (MI).

11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503

BYRD ANTI-LOBBYING AMENDMENT CERTIFICATION

(To be submitted with each proposal or offer exceeding $100,000)

The undersigned, [Company] Republic Services of Florida, Limited Partnership certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The Contractor, [Company] Republic Services of Florida, Limited Partnership, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

04/16/2021

Signature of Contractor's Authorized Official

Jean-Pierre Turgot General Manager

Name and Title of Contractor's Authorized Official

April 16, 2021

Date

Republic Services does not lobby any agency for any specific contract activities. We are in compliance with the Bryd provisions.

Not Applicable

Approved by OMB
0348-0046

Disclosure of Lobbying Activities

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
(See reverse for public burden disclosure)

1. Type of Federal Action: a. contract ____ b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	**2. Status of Federal Action:** a. offer/application _____ b. initial award c. post-award	**3. Report Type:** a. initial filing _____ b. material change **For material change only:** Year _____ quarter _____ Date of last report_____
4. Name and Address of Reporting Entity: ____ Prime _____ Subawardee Tier_____, if Known: **Congressional District,** *if known*:	**5. If Reporting Entity in No. 4 is Subawardee,** Enter Name and Address of Prime: **Congressional District,** *if known*:	
6. Federal Department/Agency:	**7. Federal Program Name/Description:** CFDA Number, *if applicable*: _____	
8. Federal Action Number, *if known:*	**9. Award Amount,** *if known:* **$**	
10. a. Name and Address of Lobbying Registrant *(if individual, last name, first name, MI):*	**b. Individuals Performing Services** *(including address if different from No. 10a)* *(last name, first name, MI):*	
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.	**Signature:** _____ **Print Name:** _____ **Title:** _____ **Telephone No.:** _____ **Date:** _____	
Federal Use Only	**Authorized for Local Reproduction** **Standard Form - LLL (Rev. 7-97)**	

E Verify Affidavit

CITY OF NORTH LAUDERDALE

E-VERIFY FORM UNDER SECTION 448.095, FLORIDA STATUTES

Project Name: Solid Waste Services
Project No.: #21-03-404

DEFINITIONS:

*"**Contractor**"* means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration. "Contractor" includes, but is not limited to, a vendor or consultant.
*"**Subcontractor**"* means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.
"**E-Verify system**" means an Internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.

Effective January 1, 2021, Contractors, shall register with and use the E-verify system in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

a) All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and

b) All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the contract with the City of North Lauderdale. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with the City of North Lauderdale; and

c) Should vendor become the successful Contractor awarded for the above-named project, by entering into the contract, the Contractor shall comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility," as amended from time to time. This includes, but is not limited to registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. Contractor shall also require all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

CONTRACT TERMINATION:

a) If the City has a good faith belief that a person or entity with which it is contracting has knowingly violated s. 448.09 (1) Fla. Stat., the contract shall be terminated.

b) If the City has a good faith belief that a subcontractor knowingly violated s. 448.095 (2), but the Contractor otherwise complied with s. 448.095 (2) Fla. Stat., shall promptly notify the Contractor and order the Contractor to immediately terminate the contract with the subcontractor.

c) A contract terminated under subparagraph a) or b) is not a breach of contract and may not be considered as such.

d) Any challenge to termination under this provision must be filed in the Circuit Court no later than 20 calendar days after the date of termination.

e) If the contract is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for a period of 1 year after the date of termination.

Company Name:	Republic Services of Florida, Limited Partnership
Authorized Signature:	
Print Name:	Jean-Pierre Turgot
Title	General Manager
Date:	April 16, 2021
Phone:	9543279555

STATE OF Florida)
COUNTY OF Broward)

The foregoing instrument was acknowledged before me by means of
■ physical presence or □ online notarization, this 24th day of April, 2021,

(SIGNATORY NAME) JEAN-PIERRE TURGOT
(NAME OF ENTITY), Republic Services of Florida, Limited Partnership
Florida (TYPE OF ENTITY), Limited Partnership
on behalf of the company. He/she is personally known to me or has produced

Known personal to me (TYPE OF ID) as identification.

NOTARY PUBLIC

Joanne Hope Stanley
(Name of Notary Typed, Printed or Stamped)

Notary
Title or Rank

#HH007732
Serial number, if any

Local Vendor Preference Certification

LOCAL VENDOR PREFERENCE CERTIFICATION

SOLICITATION # 21-03-404

Policy: Section 3-12 of the City of North Lauderdale Procurement Ordinance, provides preferences to business entities meeting the defined criteria of Local Broward County or North Lauderdale vendor.

Definition: A "Local Vendor" is defined as the following:

- ***LOCAL BROWARD COUNTY VENDOR.*** A business entity which has maintained a permanent place of business with full-time employees within the Broward County limits for a minimum of one year prior to the date of issuance of a bid or proposal solicitation. The business must have a current business tax receipt from Broward County or the city within Broward County where the business resides.

- ***LOCAL NORTH LAUDERDALE VENDOR.*** A business entity which has maintained a permanent place of business with full-time employees within the city limits for a minimum of one year prior to the date of issuance of a bid or proposal solicitation. The business must have a current business tax receipt from the City of North Lauderdale.

    - The permanent place of business may not be a post office box.
    - The business location must actually distribute goods or services from that location.

Process: For bid evaluation purposes, vendors that meet the definition of local Broward County or local North Lauderdale vendor, as defined above, shall be given preference applied to their bids or proposals for commodities, services and construction. Local North Lauderdale vendors shall be given 5% and local Broward County vendors shall be given 2.5%.

Local Preference shall not apply to any of the following:

1. Procurement methods other than a formal competitive solicitation
2. Procurements where federal, state or county law mandates to the contrary
3. Procurement of professional services procured pursuant to the State of Florida CCNA
4. Procurement using Cooperative Purchasing Agreements or Piggyback Contracts
5. Procurements deemed emergency, and Single or Sole Source

xx
____The business entity is certifying as a Local Broward County Vendor, 2.5% preference credit

____The business is certifying as a North Lauderdale Vendor, 5% preference credit

By completing the information required below and submitting this form the business entity certifies that it meets the requirements for local preference as stipulated in the Procurement Ordinance. This form must be submitted with the business entities response to a solicitation.

Name of Business Entity: Republic Services of Florida, Limited Partnership

Address: 751 NW 31st Avenue, Lauderhill, FL 33311

Tax ID/FEIM/SSN: 065-965470

Contact Name: Jean-Pierre Turgot **Title:** General Manager

Phone Number: 954-327-9555 **Email:** jturgot@republicservices.com

Signature: 03/24/2021

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

xx physical presence OR ___ online notarization

This 25 *day of* March, *20*21.

By Jean-Pierre Turgot

Personally known xx *OR produced identification* ___

Type of identification produced

Joanne Hope Stanley

NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

Non-Collusion Affidavit

NON-COLLUSIVE AFFIDAVIT
Page 1 of 2

State of Florida)

)ss.

County of Broward)

Jean-Pierre Turgot being first duly sworn, deposes and says that:

(1) He/she is the

General Manager, (Owner, Partner, Officer, Representative or Agent) of

Republic Services of Florida, Limited Partnership ,the RESPONDER that has submitted the attached response;

(2) He/she is fully informed respecting the preparation and contents of the attached solicitation response and of all pertinent circumstances respecting such Solicitation:

(3) Such solicitation response is genuine and is not a collusive or sham response;

(4) Neither the said RESPONDER nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired or agreed, directly or indirectly, with any other Responder, firm, or person to submit a collusive or sham response in connection with the work for which the attached solicitation response has been submitted; or to refrain from bidding in connection with such work; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Responder, firm or person to fix any overhead, profit, or cost elements of the solicitation response price or the solicitation response price of any other Responder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed work;

(5) The price or prices quoted in the attached solicitation response are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the RESPONDER or any other of its agents representatives, owners, employees or parties in interest, including this affiant.

Signed, sealed and delivered in the presence of:

BY: _____ 6/24/2021
(Signature)

Jean-Pierre Turgot
(Printed Name)

General Manager
(Title)

Witness 1

Witness 2

NON-COLLUSIVE AFFIDAVIT

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

x physical presence OR ___ online notarization

This 25 *day of* March, *20* 21.

By Jean-Pierre Turgot

Personally known xx *OR produced identification* ____

Type of identification produced _____

Joanne Hope Stanley

NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

JOANNE HOPE STANLEY
Notary Public - State of Florida
Commission # HH 007732
My Comm. Expires Sep 26, 2024
Bonded through National Notary Assn.

Offeror's Certification

OFFEROR'S CERTIFICATION

WHEN OFFEROR IS AN

___INDIVIDUAL ___SOLE PROPRIETORSHIP _x_PARTNERSHIP ___CORPORATION

IN WITNESS WHEREOF, the Offeror hereto has executed this Proposal Form this 25 day of March, 20 21.

By: 03/24/2021
Signature of Individual

Witness

Witness

Jean-Pierre Turgot
Printed Name of Individual

751 NW 31st Avenue
Business Address

Lauderhill, FL 33311
City/State/Zip

954-327-9555
Business Phone Number

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

_x_ physical presence OR ___ online notarization

This 25 *day of* March, *20* 21.

By Jean Pierre Turgot

Personally known xx *OR produced identification*____

Type of identification produced _____

Joanne Hope Stanley

NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

JOANNE HOPE STANLEY
Notary Public - State of Florida
Commission # HH 007732
My Comm. Expires Sep 26, 2024
Bonded through National Notary Assn.

Proof of Insurance- Sample

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

Page 1 of 2

DATE (MM/DD/YYYY) 07/11/2020

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 have ADDITIONAL INSURED provisions or 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	CONTACT NAME:	
CANNON COCHRAN MANAGEMENT SERVICES, INC. 17015 N. SCOTTSDALE RD SCOTTSDALE, AZ 85255	PHONE (A/C No.Ext):	FAX (A/C No.Ext):
	E-MAIL ADDRESS:certificateteam@ccmsi.com	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: ACE American Insurance Co.	22667
INSURER B: Indemnity Insurance Company of NA	43575
INSURER C: ACE Fire Underwriters	20702
INSURER D: Illinois Union Insurance Company	27960
INSURER E: ACE Property and Casualty Insurance Co	20699
INSURER F:	

INSURED
REPUBLIC SERVICES, INC.
18500 N. ALLIED WAY
PHOENIX, AZ 85054

COVERAGES **CERTIFICATE NUMBER: 1743258** **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 INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PROJECT LOC OTHER:			HDO G71450892	06/30/2020	06/30/2021	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS -COMP/OP AGG	$ 5,000,000 $ 5,000,000 $ 5,000,000 $ 5,000,000 $ 5,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO X OWNED AUTOS ONLY X SCHEDULED AUTOS X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY			ISA H25305425	06/30/2020	06/30/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY(Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 5,000,000
E	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $			G46782148-004	06/30/2020	06/30/2021	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
B A C A D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		WLR C67458424 AOS WLR C67458382 AZ/CA/MA/OR SCF C67458461 - WI WCU C67458503 - OH XS TNS C66948560 - TX NSXS	06/30/2020 06/30/2020 06/30/2020 06/30/2020 06/30/2020	06/30/2021 06/30/2021 06/30/2021 06/30/2021 06/30/2021	X PER STATUTE OTHER E.L. EACH ACCIDENT E.L. DISEASE -EA EMPLOYEE E.L. DISEASE -POLICY LIMIT	 $ 3,000,000 $ 3,000,000 $ 3,000,000
	Contractor's Pollution Liability:			See page 2 for details	06/30/2020	06/30/2021		

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

EVIDENCE OF COVERAGE - FOR USE FOR REPUBLIC SERVICES, INC. AND ALL ITS SUBSIDIARIES

EVIDENCE OF COVERAGE

CERTIFICATE HOLDER	CANCELLATION
EVIDENCE OF COVERAGE United States	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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Proposal Price Forms

Item 1

RFP #21-03-404 - Solid Waste Services

****NOTE: THERE ARE A TOTAL OF FOUR (4) PRICING SHEET PAGES****

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (TIN):	65-0965470

RESIDENTIAL COLLECTION SERVICES - ITEM 1

Roll-out Cart Services - 2x Per Week

Description	Comments	Unit of Measure	Frequency	Price WITHOUT providing one-time $150,000 Lump Sum Payment for City Grapple Truck — Unit Price	Price WITH providing one-time $150,000 Lump Sum Payment for City Grapple Truck — Unit Price
Collection: The rates specified for collection service shall include the cost for collection and the cost of carts		EACH	Per Month Per Dwelling Unit	$ 9.15	$ 7.91
Disposal: The rates specified for the cost of disposal	Pass-through cost of Disposal	EACH	Per Month Per Dwelling Unit	$ 8.01	$ 8.01
Disposal: Recycling (One Time Per Week)	Pass-through cost of Disposal	EACH	Per Month Per Dwelling Unit	$ 1.02	$ 1.02
Collection: Recycling (One Time Per Week)		EACH	Per Month Per Dwelling Unit	$ 4.97	$ 6.08
Option 1: Bulk Waste Collection Service (Once Per Week)	No limit on size of bulk items	EACH	52 Times Per Year	$ 9.30	$ 9.30
Option 2: Bulk Waste Collection Service (Bi-Weekly)	No limit on size of bulk items	EACH	26 Times Per Year	$ 6.27	$ 6.27
Option 3: Bulk Waste Collection Service (Once Per Month)	No limit on size of bulk items	EACH	12 Times Per Year	$ 6.27	$ 6.27
Replacement Roll-out carts Solid Waste or Recycling		EACH		$ 65.00	$ 65.00
Optional: Additional Roll-out container collection Fee; 96 gallons		EACH	Per Month Per Dwelling Unit	$ 6.00	$ 6.00
Optional: Additional Roll-out carts Solid Waste or Recycling	To be billed and paid by Customer, not the City	EACH		$ 6.00	$ 6.00

Please identify any optional items below and the cost.

Description	Comments	Unit of Measure	Frequency	Unit Price	Unit Price
Residential - Bulk		YD	As needed	$ 45.00	$ 45.00
Commercial - Bulk		YD	As needed	$ 45.00	$ 45.00
Commercial - lock Bar install	one time install	EA	As needed	$ 75.00	$ 75.00
Commercial - lock / unlock	each pickup	EA	As needed	$ 2.70	$ 2.70
Commercial / Industrial Relocation		EA	As needed	$ 75.00	$ 75.00
Commercial - Extra Yardage	Extra yards above container	EA	As needed	$ 60.00	$ 60.00
Industrial - Dry Run/ Container blocked or empty		EA	As needed	$ 150.00	$ 150.00
Industrial - Liner for box		ES	As needed	$ 75.00	$ 75.00
Industrial - Washout for compactors		EA	As needed	$ 325.00	$ 325.00
				$ -	$ -

Item 2

RFP #21-03-404 - Solid Waste Services

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (TIN):	65-0965470

COMMERCIAL AND MULTI-FAMILY SERVICES CONTAINER SERVICES - ITEM 2

Charges are per month and are billed directly to the customer

Container Size and Frequency

Description	1x/Week	2x/Week	3x/Week	4x/Week	5x/Week	6x/Week	7x/Week
Hand Pick-Up (1 Cubic Yard or less)							
Collection	$ 22.77	$ 45.54	$ 68.32	$ 91.09	$ 113.86	$ 136.63	$ 159.41
Disposal	$ 7.62	$ 15.24	$ 22.86	$ 30.48	$ 38.10	$ 45.72	$ 53.34
Monthly Maintenance Fee	$ 10.00	$ 10.00	$ 10.00	$ 10.00	$ 10.00	$ 10.00	$ 10.00
Total Cost	**$ 40.39**	**$ 70.78**	**$ 101.17**	**$ 131.57**	**$ 161.96**	**$ 192.35**	**$ 222.74**
1 Cubic Yard							
Collection	$ 59.07	$ 118.15	$ 177.22	$ 236.29	$ 295.36	$ 354.44	$ 413.51
Disposal	$ 9.92	$ 19.84	$ 29.76	$ 39.67	$ 49.59	$ 59.51	$ 69.43
Monthly Maintenance Fee	$ 11.00	$ 11.00	$ 11.00	$ 11.00	$ 11.00	$ 11.00	$ 11.00
Total Cost	**$ 79.99**	**$ 148.98**	**$ 217.97**	**$ 286.96**	**$ 355.95**	**$ 424.95**	**$ 493.94**
2 Cubic Yard							
Collection	$ 118.15	$ 236.29	$ 354.44	$ 472.58	$ 590.73	$ 708.87	$ 827.02
Disposal	$ 19.84	$ 39.67	$ 59.51	$ 79.35	$ 99.18	$ 119.02	$ 138.86
Monthly Maintenance Fee	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00
Total Cost	**$ 149.98**	**$ 287.96**	**$ 425.95**	**$ 563.93**	**$ 701.91**	**$ 839.89**	**$ 977.87**
2 Cubic Yard							
Collection							
Disposal		Duplicate					
Monthly Maintenance Fee							
Total Cost	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
3 Cubic Yard							
Collection	$ 177.22	$ 354.44	$ 531.65	$ 708.87	$ 886.09	$ 1,063.31	$ 1,240.52
Disposal	$ 29.76	$ 59.51	$ 89.27	$ 119.02	$ 148.78	$ 178.53	$ 208.29
Monthly Maintenance Fee	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00
Total Cost	**$ 220.97**	**$ 427.95**	**$ 634.92**	**$ 841.89**	**$ 1,048.86**	**$ 1,255.84**	**$ 1,462.81**
4 Cubic Yard							
Collection	$ 236.29	$ 472.58	$ 708.87	$ 945.16	$ 1,181.45	$ 1,417.74	$ 1,654.03
Disposal	$ 39.67	$ 79.35	$ 119.02	$ 158.69	$ 198.37	$ 238.04	$ 277.72
Monthly Maintenance Fee	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00
Total Cost	**$ 291.96**	**$ 567.93**	**$ 843.89**	**$ 1,119.86**	**$ 1,395.82**	**$ 1,671.78**	**$ 1,947.75**
6 Cubic Yard							
Collection	$ 354.44	$ 708.87	$ 1,063.31	$ 1,417.74	$ 1,772.18	$ 2,126.61	$ 2,481.05
Disposal	$ 59.51	$ 119.02	$ 178.53	$ 238.04	$ 297.55	$ 357.06	$ 416.57
Monthly Maintenance Fee	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00
Total Cost	**$ 431.95**	**$ 845.89**	**$ 1,259.84**	**$ 1,673.78**	**$ 2,087.73**	**$ 2,501.67**	**$ 2,915.62**
8 Cubic Yard							
Collection	$ 472.58	$ 945.16	$ 1,417.74	$ 1,890.32	$ 2,362.90	$ 2,835.48	$ 3,308.06
Disposal	$ 79.35	$ 158.69	$ 238.04	$ 317.39	$ 396.74	$ 476.08	$ 555.43
Monthly Maintenance Fee	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00
Total Cost	**$ 571.93**	**$ 1,123.86**	**$ 1,675.78**	**$ 2,227.71**	**$ 2,779.64**	**$ 3,331.57**	**$ 3,883.49**

Item 3

RFP #21-03-404 - Solid Waste Services

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (TIN):	65-0965470

COMPACTOR SERVICES - ITEM 3

Charges are per month and are billed directly to the customer

Container Size and Frequency

Description	1x/Week	2x/Week	3x/Week	4x/Week	5x/Week	6x/Week	7x/Week
1 Cubic Yard							
Collection	$ 59.07	$ 118.15	$ 177.22	$ 236.29	$ 295.36	$ 354.44	$ 413.51
Disposal	$ 29.76	$ 59.51	$ 89.27	$ 119.02	$ 148.78	$ 178.53	$ 208.29
Monthly Maintenance Fee	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00	$ 12.00
Total Cost	**$ 100.83**	**$ 189.66**	**$ 278.48**	**$ 367.31**	**$ 456.14**	**$ 544.97**	**$ 633.79**
2 Cubic Yard							
Collection	$ 118.15	$ 236.29	$ 354.44	$ 472.58	$ 590.73	$ 708.87	$ 827.02
Disposal	$ 59.51	$ 119.02	$ 178.53	$ 238.04	$ 297.55	$ 357.06	$ 416.57
Monthly Maintenance Fee	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00	$ 14.00
Total Cost	**$ 191.66**	**$ 369.31**	**$ 546.97**	**$ 724.62**	**$ 902.28**	**$ 1,079.93**	**$ 1,257.59**
2 Cubic Yard							
Collection							
Disposal		Duplicate					
Monthly Maintenance Fee							
Total Cost	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
3 Cubic Yard							
Collection	$ 177.22	$ 354.44	$ 531.65	$ 708.87	$ 886.09	$ 1,063.31	$ 1,240.52
Disposal	$ 89.27	$ 178.53	$ 267.80	$ 357.06	$ 446.33	$ 535.59	$ 624.86
Monthly Maintenance Fee	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00	$ 16.00
Total Cost	**$ 282.48**	**$ 548.97**	**$ 815.45**	**$ 1,081.93**	**$ 1,348.42**	**$ 1,614.90**	**$ 1,881.38**
4 Cubic Yard							
Collection	$ 236.29	$ 472.58	$ 708.87	$ 945.16	$ 1,181.45	$ 1,417.74	$ 1,654.03
Disposal	$ 119.02	$ 238.04	$ 357.06	$ 476.08	$ 595.11	$ 714.13	$ 833.15
Monthly Maintenance Fee	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00	$ 18.00
Total Cost	**$ 373.31**	**$ 728.62**	**$ 1,083.93**	**$ 1,439.24**	**$ 1,794.56**	**$ 2,149.87**	**$ 2,505.18**
6 Cubic Yard							
Collection	$ 354.44	$ 708.87	$ 1,063.31	$ 1,417.74	$ 1,772.18	$ 2,126.61	$ 2,481.05
Disposal	$ 178.53	$ 357.06	$ 535.59	$ 714.13	$ 892.66	$ 1,071.19	$ 1,249.72
Monthly Maintenance Fee	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00	$ 20.00
Total Cost	**$ 552.97**	**$ 1,085.93**	**$ 1,618.90**	**$ 2,151.87**	**$ 2,684.83**	**$ 3,217.80**	**$ 3,750.77**
8 Cubic Yard							
Collection	$ 472.58	$ 945.16	$ 1,417.74	$ 1,890.32	$ 2,362.90	$ 2,835.48	$ 3,308.06
Disposal	$ 238.04	$ 476.08	$ 714.13	$ 952.17	$ 1,190.21	$ 1,428.25	$ 1,666.29
Monthly Maintenance Fee	$ 22.00	$ 22.00	$ 22.00	$ 22.00	$ 22.00	$ 22.00	$ 22.00
Total Cost	**$ 732.62**	**$ 1,443.24**	**$ 2,153.87**	**$ 2,864.49**	**$ 3,575.11**	**$ 4,285.73**	**$ 4,996.36**

Item 4

RFP #21-03-404 - Solid Waste Services

Vendor Name:	Republic Services OF Florida Limited Partnership
Vendor Address:	751 NW 31st Avenue , Lauderhill FL. ,33311
Contact Information:	Joanne Stanley, Cell 561-719-8638
Taxpayer Identifiction Number (	65-0965470

PULL SERVICES - ITEM 4

Charges are per month and are billed directly to the customer

Description	10 Cubic Yard	15 Cubic Yard	20 Cubic Yard	30 Cubic Yard	40 Cubic Yard
Pick-up & Haul	$ 403.00	$ 428.00	$ 453.00	$ 503.00	$ 553.00
Disposal	$ 186.28	$ 209.56	$ 232.85	$ 279.42	$ 325.99
Total Cost	**$ 589.28**	**$ 637.56**	**$ 685.85**	**$ 782.42**	**$ 878.99**

Delivery	$ 175.00	$ 175.00	$ 175.00	$ 175.00	$ 175.00

Maintenance Fee (per day) {Less than 30 days}	$ 3.00	$ 3.00	$ 3.00	$ 3.00	$ 3.00

Maintenance Fee (per day) {More than 30 days}	$ 3.25	$ 3.25	$ 3.25	$ 3.25	$ 3.25

Proposer's List of Current and Previous Contracts Tri-county Contracts

IV f. Republic Services list of contracts in the tri county area for the last five years.

Palm Beach County	Revenue	$13,856,000.00	Start Date:	10/1/2013	Expiration Date:	9/30/2019	
Number of Homes Serviced:	55,106	Garbage Tons/Year:	54,445	Recycle Tons/Year:	12,178		
Main Contact:	John Archambo - Director of Solid Waste		jarchambo@swa.org	Phone No.:	561-697-2700 Ext. 4725		
Address:	7501 N. Jog Road	City:	West Palm Beach	St:	FL	Zip:	33412
Services are provided with Rear Load Trucks within Service Area 3 of the County's program. Commercial and Industrial collection services are also included in the exclusive franchise. Services are provided six days per week. Republic has serviced the County for over 40 years. Daniel Baker - Operations manager, Joanne Stanley Manager, Municipal Sales 70 employees and two supervisors							

Village of Royal Palm Beach	Revenue	$3,266,011.00	Start Date:	10/1/2007	Expiration Date:	11/1/2019	
Number of Homes Serviced:	9,379	Garbage Tons/Year:	9,266	Recycle Tons/Year:	2,073		
Main Contact:	Raymond Liggins - Village Manager		rliggins@royalpalm.com	Phone No.:	(561) 790-5100		
Address:	1050 Royal Palm Beach Blvd.	City:	Royal Palm Breach	St:	FL	Zip:	33411
Services are provided with Automated Side Load Trucks. An additional 3,147 units are serviced at multi-family complexes. Commercial and Industrial services are provided to businesses through an open competitive market. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 9 employees and 1 supervisor							

City of Sunrise	Revenue	$7,521,321.00	Start Date:	7/1/1996	Expiration Date:	9/30/2024	
Number of Homes Serviced:	19,268	Garbage Tons/Year:	19,037	Recycle Tons/Year:	4,258		
Main Contact:	Harry Cruz - Utility Finance Manager		hcurz@sunrise.gov	Phone No.:	(954) 746-3233		
Address:	10770 W. Oakland Park Blvd	City:	Sunrise	St:	FL	Zip:	33351
Services are provided with Rear Load Trucks. An additional 19,132 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided seven days per week. Republic has serviced the City for 40 years. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 25 employees and 2 Supervisors							

Village of Palm Springs	Revenue	$3,109,000.00	Start Date:	4/1/2008	Expiration Date:	11/1/2019
Number of Homes Serviced:	5,808	Garbage Tons/Year:	5,738	Recycle Tons/Year:	1,284	
Main Contact:	Richard Reade - Village Manager	rreade@vpsfl.org	Phone No.:	(561) 365-4010		
Address:	226 Cypress Ln.	City:	Palm Springs	St:	FL	Zip: 33461

Services are provided with Automated Side Load Trucks. An additional 3,636 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales. 6 employees and 1 supervisor

City of Coconut Creek	Revenue	$5,179,226.00	Start Date:	2/1/1995	Expiration Date:	9/30/2017
Number of Homes Serviced:	9,241	Garbage Tons/Year:	9,130	Recycle Tons/Year:	2,042	
Main Contact:	Alex Tergis	Atergis@coconutcreek.net	Phone No.:	(954) 746-3233		
Address:	4800 West Copans Road	City:	Coconut Creek	St:	FL	Zip: 33064

Services are provided with Automated Side Load Trucks. An additional 11,059 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 6 employees and 1 supervisor. Also a subcontractor for bulk

City of Fort Lauderdale	Revenue	$6,620,376.00	Start Date:	7/31/2019	Expiration Date:	7/30/2023
Number of Homes Serviced:	37,996	Garbage Tons/Year:	59,748	Recycle Tons/Year:	0	
Main Contact:	Melissa Doyle- Environmental Manager	mdoyle@fortlauderdale.gov	Phone No.:	954-828-4357		
Address:	100 North Andrews Avenue	City:	Fort Lauderdale	St:	FL	Zip: 33305

Curbside solid waste and yard waste collection services are provided with Automated Side Load Trucks. Yard waste is 13,694 tons per year. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales. 24 employees and 3 supervisors

City of Weston	Revenue	$8,151,717.00	Start Date:	10/1/2012	Expiration Date:	3/31/2019
Number of Homes Serviced:	17,588	Garbage Tons/Year:	17,377	Recycle Tons/Year:	3,887	
Main Contact:	Karl Thompson - Public Works Director	kthompson@westonfl.org	Phone No.:	(954) 746-3233		
Address:	2599 S. Post Rd.	City:	Weston	St:	FL	Zip: 33332

Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 17 employees and 1 supervisor

Village of Palm Springs	Revenue	$3,109,000.00	Start Date:	4/1/2008	Expiration Date:	11/1/2019
Number of Homes Serviced:	5,808	Garbage Tons/Year:	5,738	Recycle Tons/Year:	1,284	
Main Contact:	Richard Reade - Village Manager	rreade@vpsfl.org	Phone No.:	(561) 365-4010		
Address:	226 Cypress Ln.	City:	Palm Springs	St:	FL	Zip: 33461

Services are provided with Automated Side Load Trucks. An additional 3,636 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales. 6 employees and 1 supervisor

City of Coconut Creek	Revenue	$5,179,226.00	Start Date:	2/1/1995	Expiration Date:	9/30/2017
Number of Homes Serviced:	9,241	Garbage Tons/Year:	9,130	Recycle Tons/Year:	2,042	
Main Contact:	Alex Tergis	Atergis@coconutcreek.net	Phone No.:	(954) 746-3233		
Address:	4800 West Copans Road	City:	Coconut Creek	St:	FL	Zip: 33064

Services are provided with Automated Side Load Trucks. An additional 11,059 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 6 employees and 1 supervisor. Also a subcontractor for bulk

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Number of Homes Serviced:	37,996	Garbage Tons/Year:	59,748	Recycle Tons/Year:	0	
Main Contact:	Melissa Doyle- Environmental Manager	mdoyle@fortlauderdale.gov	Phone No.:	954-828-4357		
Address:	100 North Andrews Avenue	City:	Fort Lauderdale	St:	FL	Zip: 33305

Curbside solid waste and yard waste collection services are provided with Automated Side Load Trucks. Yard waste is 13,694 tons per year. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales. 24 employees and 3 supervisors

City of Weston	Revenue	$8,151,717.00	Start Date:	10/1/2012	Expiration Date:	3/31/2019
Number of Homes Serviced:	17,588	Garbage Tons/Year:	17,377	Recycle Tons/Year:	3,887	
Main Contact:	Karl Thompson - Public Works Director	kthompson@westonfl.org	Phone No.:	(954) 746-3233		
Address:	2599 S. Post Rd.	City:	Weston	St:	FL	Zip: 33332

Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 17 employees and 1 supervisor

Town of Lantana	Revenue	$999,618.00	Start Date:	6/1/2013	Expiration Date:	3/31/2019
Number of Homes Serviced:	3,120	Garbage Tons/Year:	3,083	Recycle Tons/Year:	690	
Main Contact:	Debbie Manzo	dmanzo@lantana.org	Phone No.:	(561) 540-5000		
Address:	225 Greynolds Cir.	City:	Lantana	St:	FL	Zip: 33462

Services are provided with Rear Load Trucks. An additional 1,889 units are serviced at multi-family complexes. Commercial and Industrial services are provided to businesses through an open competitive market. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 6 employees and 1 supervisor

Town of Ocean Ridge	Revenue	$242,512.00	Start Date:	10/1/2009	Expiration Date:	9/30/2019
Number of Homes Serviced:	1,528	Garbage Tons/Year:	1,510	Recycle Tons/Year:	338	
Main Contact:	Tracey Stevens- Town Manager	tstevens@oceanridgeflorida.com	Phone No.:	(561) 732-2635		
Address:	6450 N. Ocean Blvd	City:	Ocean Ridge	St:	FL	Zip: 33435

Services are provided with Rear Load Trucks for Solid waste, recycling, bulk and yard waste. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 3 employees

Public Entity Crimes

PUBLIC ENTITY CRIMES
Page 1 of 3

Section 287.132-133(3)(a), Florida Statutes, effective July 1, 1989 require that no public entity shall enter into a contract, award of bid, or transact business in excess of $10,000.00 with any person or affiliate who has been convicted of a public entity crime. Prior to entering into a sworn statement with the Purchasing Department on form 7088.

A copy of the form is reproduced below. This completed form must be on file prior to the issuing of a Purchasing Order.

Sworn Statement Under Section 287.133(3)(a), Florida Statutes, on Public Entity Crimes

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Solid Waste Services RFP# 21-03-404
(Solicitation Number and Name)

2. This sworn statement is submitted by Republic Services of Florida,Limited Partnership whose business address is 751 NW 31st Avenue, Lauderhill, FL 33311
and (if applicable) it's Federal Employer Identification No. (FEIN) is 065-965470 (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement.

3. My name is Jean-Pierre Turgot and my relationship to the entity named above is General Manager.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity of with an agency or political subdivision of any other state or with the United States, including but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

5. I understand that "convicted or conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding or fault or a conviction of a public entity crime, with or without adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a). Florida Statutes, means:

PUBLIC ENTITY CRIMES

A. A predecessor or successor of a person convicted of a public entity crime; or

B. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of the state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. **(Please indicate which one of the two statements applies.)**

xx Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor the affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, have been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND **(Please indicate which of the three additional statement applies below.)**

___ There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administration Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list.
(Please attach a copy of the Final Order)

___ The person of affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administration Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate form the convicted vendor list.
(Please attach a copy of the Final Order)

___ The person or affiliate has not been placed on the convicted vendor list.
(Please describe any action taken by or pending with the Department of General Services)

PUBLIC ENTITY CRIMES

Page 3 of 3

03/24/2021

Signature Jean-Pierre Turgot

March 25, 2021

Date

State of Florida

County of Broward

The foregoing instrument was acknowledged before me via

xx *physical presence OR* ___ *online notarization*

This 25 *day of* March, *20* 21.

By Jean-Pierre Turgot

Personally known xx *OR produced identification* ____

Type of identification produced _____

Joanne Hope Stanley

NOTARY NAME HERE, Notary Public

My Commission Expires September 26, 2024

JOANNE HOPE STANLEY
Notary Public - State of Florida
Commission # HH 007732
My Comm. Expires Sep 26, 2024
Bonded through National Notary Assn.

Qualification Statement

QUALIFICATION STATEMENT
Page 1 of 4

RESPONDER shall furnish the following information. Failure to comply with this requirement will render the solicitation response as non-responsive and shall cause its rejection. Additional sheets shall be attached as required.

RESPONDER'S Name and Principal Address:

Republic Services of Florida, Limited Partnership
751 NW 31st Avenue, Lauderhill, FL 33311

Contact Person's Name & Title: Jean-Pierre Turgot- General manager

RESPONDER'S Telephone: (954) 327-9555

Email jturgot@republicservices.com

RESPONDER'S License Number: 065-965470

(Please attach certificate of status, competency, and/or state registration.)

Number of years your organization has been in business 21

State the number of years your firm has been in business under your present business name 21

State the number of years your firm has been in business in the work specific to this bid: 21

Names and Titles of all officers, partners or individuals doing business under trade name:

Republic Services of Florida, Limited Partnership
Republic Services of Florida, General Partners

The business is a: Sole Proprietorship _____ Partnership x Corporation _____

QUALIFICATION STATEMENT

Page 2 of 4

IF USING A FICTITIOUS NAME, SUBMIT EVIDENCE OF COMPLIANCE WITH FLORIDA FICTITIOUS NAME STATUTE.

Under what former name has your business operated? Include a description of the business. Failure to include such information shall be deemed to be intentional misrepresentation by the City and shall render the proposer bid submittals non-responsive.

All Service Refuse

At what address was that business located?

751 NW 31st Avenue
Lauderhill, FL 33311

Name, address, and telephone number of Surety Company and agent who will provide the required bonds on this contract:

Travelers Casualty and Surety Company of America, Seattle , WA
Amber Engel-206-695-3102

Have you ever failed to complete work awarded to you. If so, when, where and why?

No

Have you personally inspected the proposed work site and do you have a complete plan for its performance?

Yes, we did provide services to North Lauderdale until 2011.

Will you subcontract any part of this work? If so, give details including a list of each subcontractor(s) that will perform work in excess of ten percent (10%) of the contract amount and the work that will be performed by each subcontractor(s).

EWS will be our subcontractor for bulk and yard waste collection services.

*The foregoing list of subcontractor(s) may not be amended after award of the contract without the prior written approval of the City Contract Project Representative, whose approval shall not be reasonably withheld.

QUALIFICATION STATEMENT

Page 3 of 4

List and describe all bankruptcy petitions (voluntary or involuntary) which have been filed by or against the RESPONDER, its parent or subsidiaries or predecessor organizations during the past five (5) years. Include in the description the disposition of each such petition.

Republic Services has never filed for bankruptcy. Please see our annaul report

List and describe all successful Bond claims made to your surety(ies) during the last five (5) years. The list and descriptions should include claims against the bond of the RESPONDER and its predecessor organization(s).

None

List all claims, arbitrations, administrative hearings and lawsuits brought by or against the RESPONDER or its predecessor organizations(s) during the last (10) years. The list shall include all case names; case, arbitration or hearing identification numbers; the name of the project over which the dispute arose; and a description of the subject matter of the dispute.

Please see Section IX in this RFP

List and describe all criminal proceedings or hearings concerning business related offenses in which the RESPONDER, its principals or officers or predecessor organization(s) were defendants.

Republic Services and it management team does not have any criminal proceeding to report

Has the RESPONDER, its principals, officers or predecessor organization(s) been CONVICTED OF A Public Entity Crime, debarred or suspended from bidding by any government entity? If so, provide details.

No, see Section II Required Forms

QUALIFICATION STATEMENT

Page 4 of 4

Are you an [X] Original provider [ ] sales representative [ ] distributor, [ ] broker, [ ] manufacturer [ ] other, of the commodities/services proposed upon? If other than the original provider, explain below.

Republic Services provides solid waste , recycle, bulk and yard waste collection services

Have you ever been debarred or suspended from doing business with any governmental agency? If yes, please explain:

No

Describe the firm's local experience/nature of service with contracts of similar size and complexity, it the previous three (3) years:

Republic Services of Florida, Limited Partnership has held the Exclusive franchise agreement to the following cities.
Sunrise for over 40 years
Coconut Creek for over 23 years
Weston for over 20 years

The RESPONDER acknowledges and understands that the information contained in response to this Qualification Statement shall be relied upon by the CITY in awarding the contract and such information is warranted by RESPONDER to be true. The discovery of any omission or misstatement that materially affects the RESPONDER'S qualifications to perform under the contract shall cause the CITY to reject the solicitation response, and if after the award, to cancel and terminate the award and/or contract.

Print Name of Responder: Jean-Pierre Turgot

Signature of Responder: [signature] 03/24/2021

Title of Responder's Representative: General Manager

Date: March 25, 2021

Scrutinized Vendor Certification

SCRUTINIZED VENDOR CERTIFICATION

Page 1 of 2

Certification Pursuant To Florida Statute § 287.135

I, Jean-Pierre Turgot- General Manager (Print Name and Title), on behalf of Republic Services of Florida, Limited Partnership (Contractor Name),

Certify that Republic Services of Florida, Limited Partnership (Contractor Name) does not:

1. Participate in a boycott of Israel; and
2. Is not on the Scrutinized Companies that Boycott Israel List; and
3. Is not on the Scrutinized Companies with Activities in Sudan List; and
4. Is not on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
5. Has not engaged in business operations in Syria.

Submitting a false certification shall be deemed a material breach of contract. The City shall provide notice, in writing, to the Contractor of the City's determination concerning the false certification. The Contractor shall have ninety (90) days following receipt of the notice to respond in writing and demonstrate that the determination of false certification was made in error. If the Contractor does not demonstrate that the City's determination of false certification was made in error then the City shall have the right to terminate the contract and seek civil remedies pursuant to Florida Statute § 287.135.

Section 287.135, Florida Statutes, prohibits the City from: 1) Contracting with companies for goods or services in any amount if at the time of bidding on, submitting a proposal for, or entering into or renewing a contract if the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, F.S. or is engaged in a boycott of Israel; and 2) Contracting with companies, for goods or services over $1,000,000.00 that re on either the Scrutinized Companies with activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473, or are engaged in business operations in Syria.

SCRUTINIZED VENDOR CERTIFICATION

Page 2 of 2

As the person authorized to sign on behalf of the Contractor, I hereby certify that the company identified above in the section entitled "Contractor Name" does not participate in any boycott of Israel, is not listed on the Scrutinized Companies that Boycott Israel List, is not listed on either the Scrutinized Companies with activities in the Iran Petroleum Energy Sector List, and is not engaged in business operations in Syria. I understand that pursuant to section 287.135, Florida Statutes, the submission of a false certification may subject the company to civil penalties, attorney's fees, and/or costs. I further understand that any contract with the City for goods or services may be terminated at the option of the City if the company is found to have submitted a false certification or has been placed on the Scrutinized Companies with Activities in Sudan list or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Republic Services of Florida, Limited Partnership

Company Name

03/24/2021

Signature

Jean-Pierre Turgot

Print Name

General Manager

Title

Vendor Contact Summary

VENDOR CONTACT SUMMARY

THIS FOLLOWING MUST BE COMPLETED IN ITS ENTIRETY INCLUDING THE SIGNATURE OF AN AUTHORIZED REPRESENTATIVE WHERE INDICATED BELOW AND SUBMITTED WITH THE SOLICITATION. FAILURE TO PROVIDE THIS DOCUMENT, WITH THE SOLICITATION RESPONSE, WILL RESULT IN BID BEING CONSIDERED NON-RESPONSIVE.	
Bidder's Name and state "Doing Business As", if applicable: Republic Services of Florida, Limited Partnership	
Address: 751 NW 31st Avenue	**City:** Lauderhill
State: FL **Zip Code:** 33311	**Federal Tax Identification Number:** 065-0965470
Telephone Number: 954-327-9555	**Toll Free Number:**
Contact: Jean-Pierre Turgot General Manager	**E-Mail Address of Authorized Representative:** jturgot@republicservices.com
"REMIT TO" ADDRESS FOR PAYMENT: If payment(s) is/are to be mailed to address other than as stated on left, please complete section below.	
Address: P.O. Box 9001099	**City:** Louisville
State: KY **Zip Code:** 40290-1090	**Telephone Number:** 954-327-9555
Contact: Mike Rizopoulos- Finance Manager	**Toll Free Number:** N/A

Signature of Authorized Representative (Manual)

Jean-Pierre Turgot 03/24/2021

Name of Authorized Representative (Typed or Printed)

General Manager

Title

Vendor Ownership and Demographic Form

City of North Lauderdale *Purchasing and Contracts Division*

CITY OF NORTH LAUDERDALE
VENDOR OWNERSHIP SURVEY

Contact:	Agency:	Contact E-mail:
Jean-Pierre Turgot	Republic Services of Florida, Limited Partnership	jturgot@republicservices.com

Vendor Name: Republic Services of Florida, Limited Partenrship_____

Using the drop-down menu to the right to answer the questions below:

1. Does your firm employ more than 50 persons (including full-time and part-time employees)	**Yes**
2. Is your firm a construction firm?	**No**
2A: If YES to number 2 above, is the average annual gross revenue for your firm for the past three (3) years greater than $9 million?	**Choose an item.**
2B: If NO to number 2 above, is the average annual gross revenue for your firm for the past three (3) years greater than $5 million?	**Yes**
3. Which of the following best describes the gender of your firm's primary owner (at least 51% ownership):	**Not Applicable**
4. Which of the following best describes the ethnicity of your firm's primary owner (at least 51% ownership): If you chose "Other", Please indicate: ___Limited Partnership_____	**Other (not listed above)**
5. Which of following best describes the primary owner's veteran status (at least 51% ownership):	**Not Applicable**
6. Is your firm located within the city limits of North Lauderdale?	**No**
7. If your firm has been certified as a Small Business (SBE), a Women Owned Business (WBE), a Minority Owned Business (MBE) a Veteran Owned Business (VBE), or a Certified Business Enterprise (CBE) please indicate the agency or agencies that have granted the certification to your firm. (If you choose "other" please indicate the name or names of the certifying agency(ies)): _____	**N/A**

Please save and email this document to:

Andrew Rozwadowski
Purchasing & Contracts Manager
City of North Lauderdale
Phone: (954) 597-4776
ARozwadowski@nlauderdale.org

III. Overview of Evaluation Criteria

Each Proposal shall be evaluated in the light of the following criteria

- The Proposer's qualifications and experience
- The Proposer's past performance
- The Proposer's plan for providing service to the city
- The Proposer's capabilities
- The Proposer's added value and enhancement
- The Proposer's price

Executive Summary

An overwhelming majority of municipalities extend their current contracts with Republic Services because of our partnerships and local expertise, offering Simple Solutions, Reliability, and Environmental Responsibility.

Best Value

The Republic Services team is passionate about our role as responsible stewards of our nation's waste. We believe in a cleaner, safer, and healthier world where people thrive – not just for today but also for generations to come.

A Commitment to Excellence

We know that by offering differentiated products, services, and experiences designed to meet our customers' wants and needs, we drive customer loyalty and increase willingness to pay. In 2019, we continued to invest in and enhance our customer-facing technology, including our website and mobile app. We also unveiled our new "RISE" platform to transform our

Republic Services is your low-risk, best value partner

- 197 employees live within Broward County
- 40 plus years continuously serving Broward County
- Reliable – 99.9% pickup rate
- Environmental Responsibility – approximately 20% of the fleet operates on natural gas
- Safer – 40% fewer incidents than the industry average
- Simple Solutions – manage your account with the Republic Services app
- Named to the CDP Climate "A List"
- Named to the Dow Jones Sustainability Indices – North America and World - for the fourth straight year
- For the fourth straight year - Named to the World's Most Ethical Companies List® by the Ethisphere® Institute for the fourth year in a row
- 3 fully staffed, US-based, national Customer Resource Centers

*Figure 1. **Your Low-Risk, Best Value Partner.** Republic Services is proud to lead the industry in many key factors that make us your preferred municipal recycling and waste services partner.*

Strengths of our Company	Benefits to Municipality
99.9% On-time reliability rate	Happy community; fewer calls to city hall
40% safer than the industry average	Fewer incidents; safer community streets for children at play
Simple Solutions for your community waste and recycling needs	Easy access to solutions for the growing number of waste streams
Recognized globally on Dow Jones Sustainability Index	Peace of mind that you have a global leader in sustainable initiatives as your partner
Most advanced, integrated Customer Resource Centers in the industry	Longer customer service hours, with hundreds of trained agents networked together nationwide
Web- and smartphone-based apps for easy access by community residents to relevant information	Stronger communications and ease of alert and news dissemination
Robust community education and outreach	Communities educated on recycling produce less contamination and greater diversion

dispatch operations. This technology equips our dispatchers with real-time routing information and enhanced data visualization tools. Over time, this platform will significantly increase connectivity with our customers, further empowering our employees, improving productivity, and transforming our overall operations.

We know our customers care about recycling, and they have demonstrated a willingness to pay for it. We continue to make progress working with our municipal partners in transforming recycling into a more durable, economically sustainable business model. Recycling is essential to our sustainability platform, and we continue to invest in the business for the long term.

We'll handle it from here™, our promise, lets customers know they can always rely on us to handle their recycling and waste needs in a way that is easy and effortless.

There is undeniable energy of excellence at Republic Services, and it is surging through everything we do. Excellence is the essence of our growth through differentiation strategy.

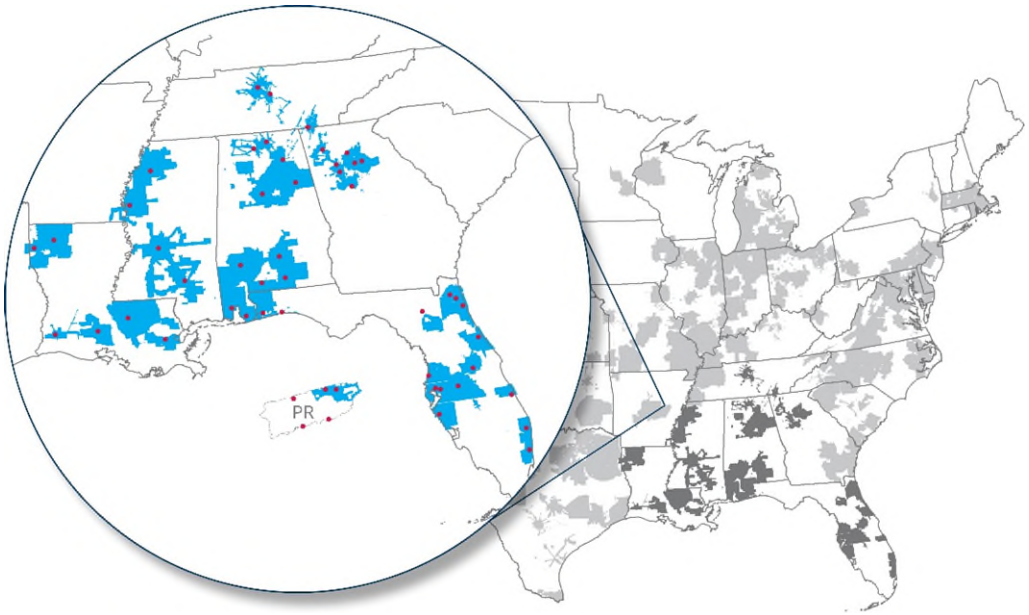
We believe that excellence means being better than competitors at everything we do every day. We begin by actively listening to our customers. We seek out thousands of conversations each month, mining for insights into customer wants and needs. Those insights lead to innovation. Our innovation brings about simple solutions for our customers. We configure products and services to the individual customer at the right price.

Next, we make it an effortless and enjoyable experience. We enable customers to interact with us on their terms: online, in-person, or by phone. Then, the best people deliver a superior product or service, fulfilling and exceeding our promise every time.

This zeal for our customers has brought forth new and exciting changes. From operations to talent to technology, we are focused on not just meeting the needs of our millions of customers but exceeding them.

Low-cost providers in the industry sacrifice one or more of these elements, translating to risk to your municipality. Republic Services is your best-value partner through

*Figure 2. **Local accountability backed by national support.** Our North Lauderdale operations are backed by our corporate-wide strength and experience, incorporating best practices from other local operations.*



our proven and demonstrated balance of these factors while serving more than 2,400 municipal contracts today.

Local Leadership with National Support

Our local team is vital to the successful delivery of this contract and its daily operations. This team's unique combination of collection experience, recycling expertise, and innovative management systems ensure quality service for the duration of the contract. Our local and area management teams have extensive industry experience operating and managing solid waste companies and have substantial experience in the region.

Because we retain experienced managers with extensive knowledge of their local communities, we are proactive in anticipating customers' needs and adjusting to changes in the markets. We also seek to

*Figure 3. **Five Elements of Sustainability.** These commitments are reflected in the way we do business and guided by the five elements of our sustainability platform.*



implement the best practices of our various business units throughout our operations to continue improving our operations and service to our customers.

While our local business operation is fully empowered and accountable for delivering on our commitments, they are also backed by the support and breadth of our area and corporate leadership teams, capable of amassing expertise and support to assist or respond to any challenge. An example of this benefit to you is the response capabilities during times of crisis, such as the recent coronavirus (COVID-19) pandemic, hurricanes, tornados, or other disasters. In times of challenges like this, our area and corporate teams activate to ensure our people are safe and our assets are operational to return to normal operations quickly. This is a considerable benefit and risk mitigation to North Lauderdale that many other providers in the industry are unable to stand behind.

Sustainability

The breadth and scope of our sustainability platform are earning noteworthy recognition. From products that create solutions for our customers to an industry-leading safety program and a fleet that reduces its carbon impact to landfills that generate renewable energy, we are leading in every way possible. Sustainability contributes to a cleaner world while also providing opportunities to improve brand awareness, increase customer loyalty, grow our business, motivate our employees and differentiate Republic Services from our competitors.

We are guardians of our environment and have a responsibility to regenerate our planet with the materials we are entrusted to handle every day by driving increased recycling, generating renewable energy, and helping our customers be more resourceful.

We must lead by example, working diligently to improve our relationship with the environment and society through decreased vehicle emissions, innovative landfill technologies, use of renewable energy, community engagement, and employee growth opportunities. We are privileged to serve millions of customers across the country, creating effortless experiences that support your evolving needs and honor your

Figure 4. ***Recognition supports our approach.*** *Engaged employees and leadership make Republic Services an employer of choice.*



unique commitments to improving your communities. Republic Services' multifaceted, enterprise-wide sustainability platform continues to revolve around five elements: Operations, Materials Management, Communities, Safety, and People.

Operations

We exercise the utmost responsibility in our operations. This includes our fleet, buildings, landfill technology, and the day-to-day activities we conduct in our communities. We are working hard to understand and measure our impact on air, land, and water to minimize or eliminate any negative consequences, where possible.

Materials Management

We recognize the responsibility and opportunity we have in managing the nation's waste stream to provide a source of recovered and renewable materials and energy to the economy. We are innovative and constantly exploring new options to capture value and energy from materials in the waste stream while ensuring environmental responsibility and sustainability.

Communities

We are dedicated to being a good neighbor in the communities in which we live and work. This includes investing back into our communities through customer engagement, philanthropic giving, volunteerism, environmentally responsible infrastructure, and operating in our markets at the highest standards.

Republic Services' community engagement plan is based on the needs of the community-based organizations and civic and business entities of North Lauderdale.

*Figure 5. **An industry-leading safety program** that has been 39% better than the industry average.*



Safety

We prioritize safety above all else. When people feel safe, they can fully participate every day in the available opportunities.

Republic Services has a consistently low and trending lower occurrence of incidents and accidents and is known for our strict focus on safety and corresponding best in industry, multi-faceted, and well-organized safety program. According to the Department of Labor, Bureau, and Statistics Data, Republic Services' average OSHA scores are 39% lower than the average OSHA scores for the waste industry. Employees, the public, and rate payers all benefit from Republic Services' dedication to safety. We have been and will continue to strive to be the safest waste services company in America.

People

Engaged employees are the greatest indicator of our success. We provide ongoing job training, growth, and development opportunities for our employees at every level. We are invested in them and continue to look for meaningful ways to demonstrate our appreciation for the hard work and dedication they show every day.

Republic Services is a local company staffed with a committed team of nearly 197 professionals who take personal responsibility for serving customers with care. Republic Services is also an industry leader providing the strength of our national network, decades of experience, diversified capabilities, and expertise serving clients of all sizes. A few years ago, Republic Services made a major commitment to further differentiate ourselves from competitors by investing in enhancing the quality and reliability of our customer service

capabilities. To accomplish this, we consolidated hundreds of small call centers into three state-of-the-art, fully integrated Customer Resource Centers located in Phoenix, AZ, Indianapolis, IN, and Charlotte, NC. These facilities are strategically located across the country to ensure we can deliver call support when customers need it the most. Based on data from more than 12 million touches with customers, we have found the optimal operating hours are Monday through Friday from 7:30 a.m. to 5 p.m. for each time zone across the continental US.

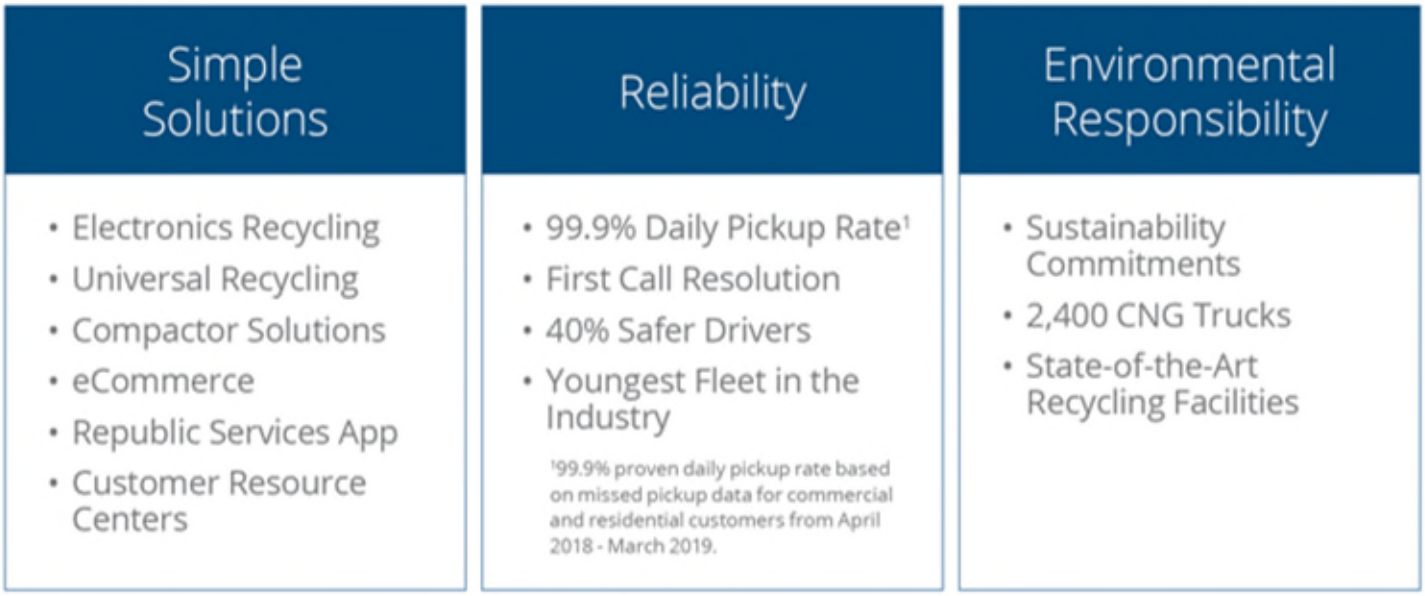
Our Promise

We'll handle it from here™. Our promise is backed by the details of this proposal submittal to you. In summary, we take pride in offering you a best-value partnership that consists of Simple Solutions, which are Reliable and Environmentally Responsible.

- **Simple Solutions** – We offer a wide range of tailored products to assist the community in the responsible recycling or disposal of unique waste streams that include electronics, bulb and battery waste, or household hazardous waste. Additionally, our investments in customer-facing web- and smartphone-based apps allow simple interaction between customers and Republic Services, offering service details, alerts, delivery schedules, and billing information.
- **Reliability** – Our operations and performance metrics prove that we are your most reliable partner. Our 99.9% pickup reliability rate means that you face fewer calls from the community regarding service. When callers reach out to us for any needs, we strive for the first-call resolution through our fully integrated customer resource centers. Additionally, our tenure drivers are the safest in the industry, which means your residents are better off with our team on your streets.
- **Environmental Responsibility** – We are globally recognized as a leader in sustainability. Our investments in recycling infrastructure, compressed natural gas-powered trucks, and landfill gas-to-energy plants are all examples of how we drive to be a good neighbor in every municipality we partner with.

It is through these initiatives and recognitions that we reiterate our

Figure 6. Republic Services focuses on these characteristics enabling us to be your preferred recycling and waste partner.



commitment to North Lauderdale. On behalf of the 36,000 employees at Republic Services, we appreciate the opportunity to earn your business through this submittal and look forward to a long and continued partnership for years to come.

*Figure 7. **Republic Services is proud** to partner with our more than 2,400 communities across the country and our achievements on the sustainability platform.*



IV. Experience and Ability

Republic Services is one of the country's leading municipal recycling and waste services providers, serving more than 2,400 communities, with millions of customers in 40 states.

Local Presence

For 40 plus years, Republic Services has partnered with municipalities, residents, and businesses in Broward County to provide solid waste, recycling, yard waste, and bulk item collection services.

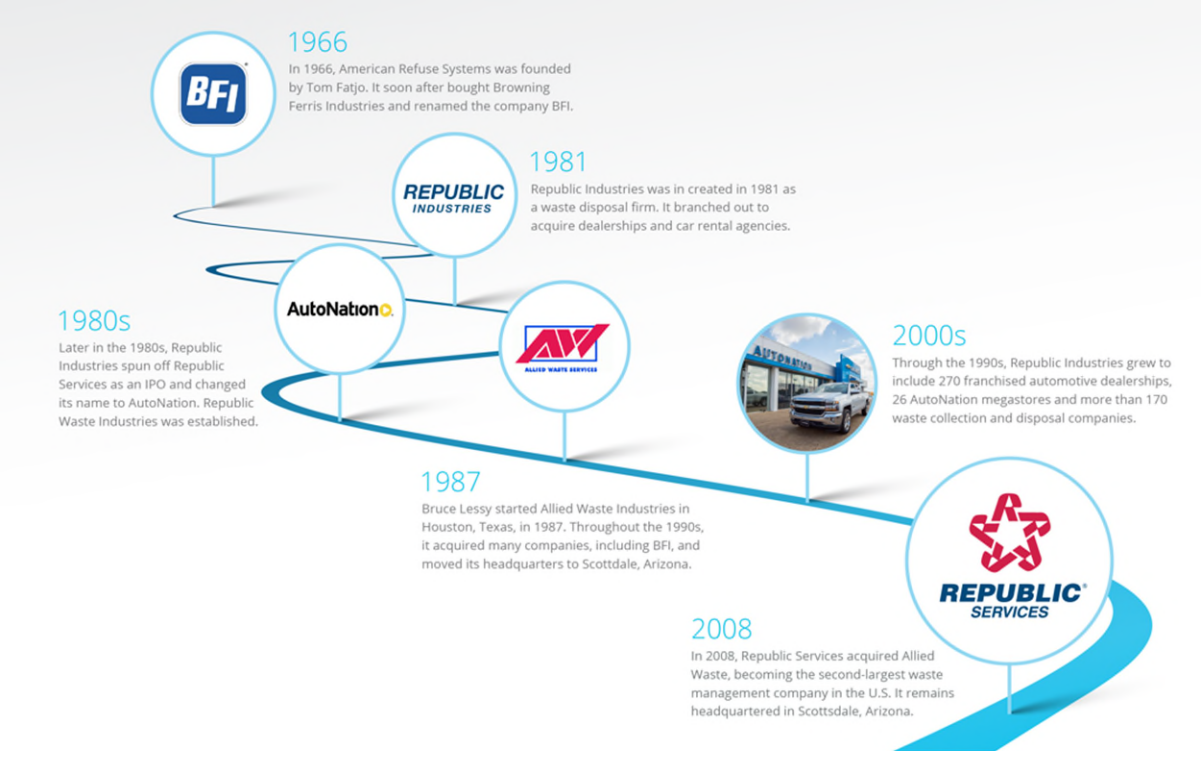
Republic Services is integrated into the community, employing approximately 197 people within Broward County.

We place great importance on our human capital and recognize that our employees are our most important asset. Republic Services endeavors to provide the very best working conditions, including a safe

Republic Services invests in our communities by continuing to provide customers with safe, customer service-focused solutions

- Municipalities that partner with Republic Services choose to renew or extend their contracts over 85% of the time
- Our 15,000 drivers execute 4.9M pickups/day
- The average tenure of Republic Services Municipal customer is more than 12 years
- As a corporate partner, we sponsor and are present in the communities we serve
- Over 100,000 residential customers, 6800 commercial and industrial customers in Broward County
- Republic Services deploys 90 trucks daily from its local collection operations

Figure 8. ***Company History****. Today's Republic Services is the product of three former Industry leaders.*

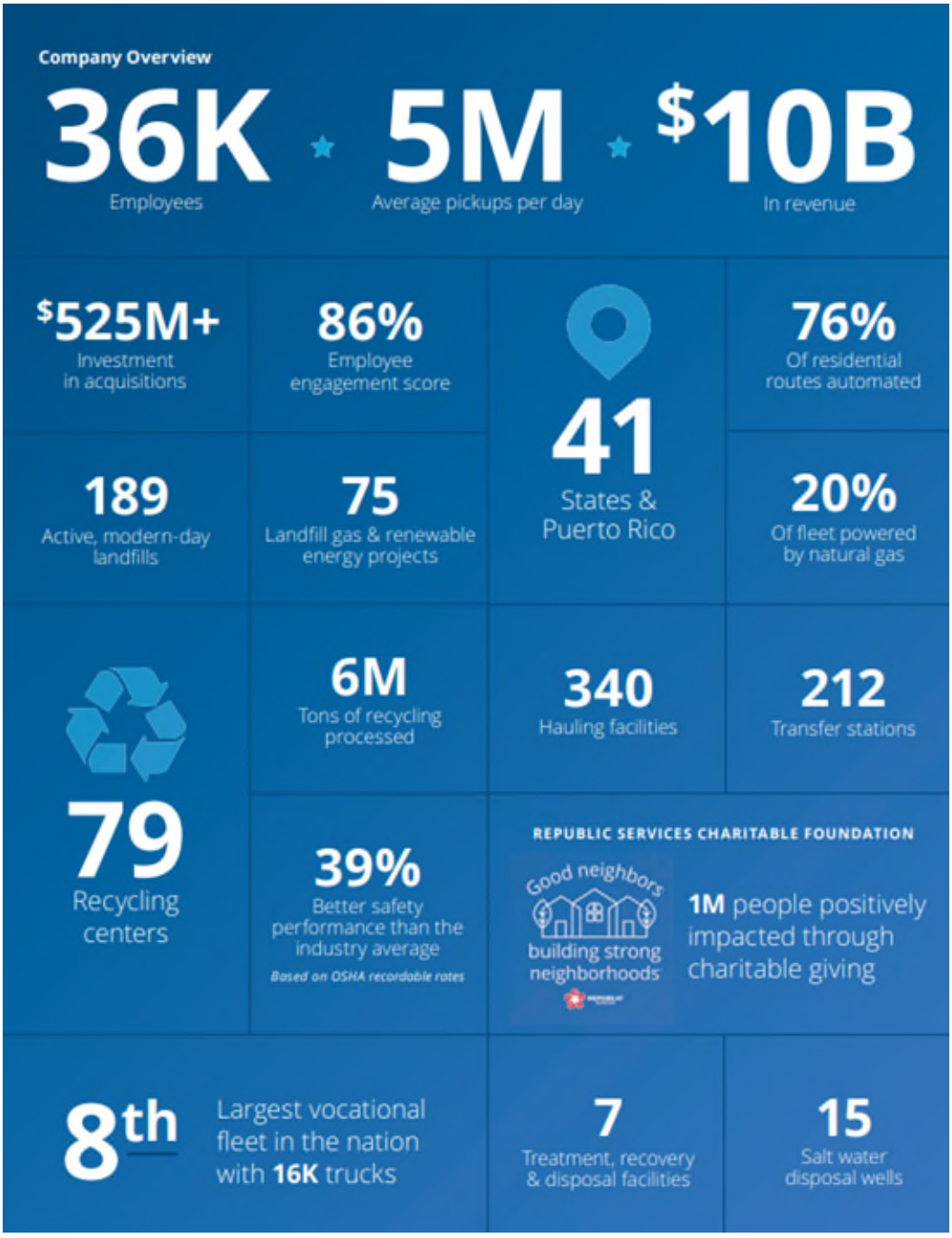


environment, competitive pay and benefits, and many opportunities for professional growth. In fact,65% of our supervisors and managers began their careers at Republic Services as drivers, landfill operators, or technicians.

Our Company

Republic Services is an industry leader in the non-hazardous solid waste industry with revenues of more than $10 billion and over

*Figure 9. **Key Company Statistics**. Republic Services is an industry leader in the U.S. non-hazardous solid waste industry.*



36,000 dedicated employees. Figure 8 shows our lineage, which includes three of the industry's most recognized brands combined in 2008. All our legacy brands operate today as a part of the Republic Services family.

Republic Services' collection companies, transfer stations, recycling centers, and landfills focus on providing effortless solutions for our millions of commercial, industrial, and residential customers. Republic Services responsibly operates 340 collection operations, 212 transfer stations, 189 active solid waste landfills, and 79 recycling centers across 41 states. We also have 75 landfill gas and renewable energy projects and are adding new facilities every year. Our Energy Services vertical has 7 treatment, recovery, and disposal facilities and 15 saltwater disposal wells.

With more than 16,000 vehicles, Republic Services deploys the 8th largest vocational fleet in the U.S. to collect approximately 100 million tons of waste and over eight million tons of recyclables.

Vision

Republic Services' vision is to be America's preferred recycling and waste services, partner. We earn this by providing our customers with simple solutions, reliability, and environmental responsibility, wrapped with a level of service unmatched anywhere else in our industry.

*Figure 10. **Environmental Responsibility**. We believe there will always be more we can do to enhance our sustainability efforts and, in the process, strengthen our business.*



Values

We believe that empowered and engaged employees are the greatest indicator of our success. The principles guide us we have adopted as our core values – to be Respectful, Responsible, Reliable, Resourceful, and Relentless in all we do every day. We are reminded of these principles every time we see the five R's joined together to form the Republic Services' Star.

Strategy

Our strategy is profitable growth through differentiation. Simply put, we hire the best people that deliver the best products that best meet our customers' needs.

Our Promise

We'll handle it from here™, our promise, lets customers know they can always rely on us to handle their recycling and waste needs in a way that is easy and effortless for them.

Sustainability

At Republic Services, we are dedicated environmental stewards entrusted to properly handle materials every day by driving increased recycling, generating renewable energy, and helping our customers be more resourceful. Republic Services leads by example, working diligently to improve our relationship with the environment and society through decreased vehicle emissions, innovative landfill technologies, use of renewable energy, community engagement, and employee growth opportunities.

Sustainability contributes to a cleaner world while also providing opportunities to increase customer loyalty, grow our business, motivate our employees and differentiate Republic Services from our competitors.

People

Our people are the center of our success. Attracting, developing, and engaging the best talent is critical to our strategy of profitable growth through differentiation. Whether it's through our dedication to safety, robust learning, and talent development programs, or expanding our diversity and inclusion initiative, Mosaic, we are committed to making Republic Services an employer of choice where the best and brightest come to work.

Leadership

Republic Services' operations are national in scope. Still, the physical collection and disposal of waste is very much a local business, and the dynamics and opportunities differ in each of our markets.

Our national presence allows us to identify and incorporate best practices that drive greater overall operating efficiency across the company while maintaining day-to-day operating decisions at the local level, closest to the customer. We manage our operations through ten geographic operating areas, consisting of multiple divisions that each provide recycling and waste collection, transportation, and disposal services.

Your municipal contract will be executed locally by our seasoned team located at **751 NW 31st Avenue, Lauderhill, FL 33311.** This team is fully empowered within our company structure to deliver on our promise to be your preferred recycling and waste provider. This local team is only two levels removed from our corporate staff, which means the backing and support of a national company is accessible at a moment's notice.

Ownership

Republic Services, Inc. is a publicly-traded company on the New York Stock Exchange

(NYSE symbol: RSG).

Ownership beyond five percent

The following figure shows certain information as of May 2020, with respect to the ownership of common stock by each shareholder who is known by Republic Services to own more than 5 percent of our outstanding common stock:

Figure 12. Ownership beyond five percent.

Name of Owner	% Outstanding Shares
Cascade Investment, LLC	**34.18%**
BlackRock, Inc.	**5.52%**
The Vanguard Group, Inc.	**6.15%**

Credit Rating

Republic Services, Inc. has an "investment grade" rating. No creditor is owed a debt greater than 10 percent of the company's total assets.

Associations

Republic Services is a member of the following associations and organizations, among others. Our employees are actively engaged in these organizations and, in many cases, serve on the board of directors and/or are elected officers.

- National Waste & Recycling Association (NWRA)
- Solid Waste Association of North America (SWANA)
- Environmental Research and Education Foundation (EREF)
- United States Green Building Council (USGBC)U.S. Conference of Mayors, Solid Waste Advisory Council
- National League of Cities (NLC)
- International City Managers Association (ICMA)

Awarded Contracts

Figure 11. ***Republic Services is a proud member*** *of our industry association as well as many other trade associations.*



Republic Services of Florida, Limited Partnership has always fulfilled any contracts it has been awarded.

Routing Optimization

Establishing the most optimized routes for a community has dramatic effects on the quality of service, safety, and efficiency of the collection operation through shorter routes, safety in the neighborhoods, and ultimately the wear and tear on the streets within the municipality.

We conduct a proven route optimization process, which involves a tight collaboration between the local team and our corporate route optimization team. Through several iterations, these teams collaborate, sharing local knowledge and details while running our optimization processes to yield the best routes possible for your community. An example of this process is that we evaluate planned routes to ensure that trucks are not conducting collection on streets during times known for congestion or traffic.



Employees and Supervisors

Republic Services estimates that they will need a total of 9 drivers and two helpers. Republic Services will be subcontracting the Bulk/yard waste to EWS for the entire term of the agreement. There will also be a dedicated supervisor for the City of North Lauderdale. Our Customer Service call center will handle all calls from the residents and businesses in the City of North Lauderdale.

Notifications and Samples

Republic Services will send annual notices and magnets per the RFP.

REPUBLIC SERVICES / Palm Bay, Florida

Republic Services
2575 Jonesthra Fields Ave. NE
Palm Bay, FL 32905

Welcome to Republic Services®

Your New Solid Waste Service

The City of Palm Bay's new solid waste services will be provided by Republic Services.

- Beginning October 1, 2020, residents will receive 2 times per week trash service and 1 time per week recycle, yard waste and bulk service for $23.50.
- Base service includes one trash and one recycle cart.
- Each resident will have the option of a 96 , 64 , or 35 gallon trash cart.
- Additional trash carts are available for $8.79 per cart per month.
- For your route information, visit the City of Palm Bay website at: https://www.palmbayflorida.org/services/city-services/trash-and-recycling.
- For customer service, call Republic Services at 321.989.6030 (8 a.m. - 5 p.m.) or visit RepublicServices.com.
- To start new service or for billing questions, contact the City of Palm Bay at 321.952.3420.

2020 Residential Holiday Schedule

Veteran's Day – Wednesday, November 11, 2020
Recycling, yard waste and bulk waste will be collected on Saturday, November 14, 2020.

Thanksgiving Day – Thursday, November 26, 2020
Solid waste, recycling, yard waste and bulk waste will be collected on Saturday, November 28, 2020.

Christmas Day – Friday, December 25, 2020
Solid waste, recycling, yard waste and bulk waste will be collected on Saturday, December 26, 2020.

2021 Residential Holiday Schedule

Memorial Day – Monday, May 31, 2021
Solid waste, recycling, yard waste and bulk waste will be collected on Thursday, June 3, 2021.

July 4th – Sunday, July 4, 2021
No service change.

Veteran's Day – Thursday, November 11, 2021
Solid waste, recycling, yard waste and bulk waste will be collected on Saturday, November 13, 2021.

Thanksgiving Day – Thursday, November 25, 2021
Solid waste, recycling, yard waste and bulk waste will be collected on Saturday, November 27, 2021.

Christmas Day – Saturday, December 25, 2021
No service change.

Simple account access. Anytime. Anywhere.

Manage your account from home or on the go with the Republic Services app.
Visit **RepublicServices.com/Account** to access your account or download the app, so you can:

- ✓ Schedule a pickup
- ✓ Report a missed pickup
- ✓ Find new products and services
- ✓ Rate your service
- ✓ Repair a container
- ✓ And more



ONLY place these items in the recycling container:



PAPER
Paper (staples okay)
Newspapers
Envelopes
Mail
Phone books
Brochures
Magazines



CARDBOARD
Flattened cardboard boxes
Food boxes with liners removed
File folders
Poster board
(remove any food or liquid)



PLASTICS
ONLY
1 2
Water bottles
Soda bottles
Milk jugs
Shampoo bottles
Detergent containers



METAL
Aluminum beverage cans
Food cans
(remove any food or liquid substance from metal and plastics)

NEVER place these items in the recycling container:



Plastics #2: pipes, fencing, shower curtains, lawn chairs, window profiles, children's toys.
Plastics #6: Plastic utensils, desk accessories, video cassettes, polystyrene foam, coffee cup lids.

All household hazardous waste must be dropped off at the Sarno Landfill Drop-off Center, 3379 Sarno Road, Melbourne, FL.
https://www.palmbayflorida.org/services/city-services/trash-and-recycling

Household Hazardous Waste Unacceptable Items

The items below are considered household hazardous waste and cannot be placed in curbside carts. A free drop-off location is listed below. Thank you for keeping our environment and your community safe.

Sarno Landfill Drop-off Center
3379 Sarno Road, Melbourne, FL
Monday - Saturday, 8 a.m. - 4 p.m. | 321.633.2042

Household Hazardous Waste Products in the Home:



Household Hazardous Waste Products Around the Home/In the Garage:



Household Hazardous Waste Products in the Yard:



REPUBLIC SERVICES
We'll hand it from here.

Florida Municipal References

Republic Services
Municipal Contracts - Florida

Republic Services has an extensive background in providing municipal waste and recycling collection services with over 2,400 contracts nationwide. Listed below are some of the great partnerships that we manage in Florida.

City of Sunrise	Rate:	$14.71	Start Date:	7/1/1996	Expiration Date:	9/30/2024		
Number of Homes Serviced:	39,740	Garbage Tons/Year:	39,263	Recycle Tons/Year:	8,783			
Main Contact:	Antonio Thompson- Solid Waste Coordinator	athompson@sunrisefl.gov	Phone No.:	954-577-1135				
Address:	10770 W. Oakland Park Blvd	City:	Sunrise	St:	FL	Zip:	33351	

Services are provided with Rear Load Trucks. An additional 19,132 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided seven days per week. Republic has serviced the City for 40 plus years.

St. Johns County	Rate:	$13.53	Start Date:	6/1/2014	Expiration Date:	7/31/2024		
Number of Homes Serviced:	61,342	Garbage Tons/Year:	59,011	Recycle Tons/Year:	17,943			
Main Contact:	Greg Caldwell-Assistant Public Works Director	gcaldwell@sjcfl.us	Phone No.:	(904) 209-0132				
Address:	3005 Allen Nease Rd.	City:	Elkson	St:	FL	Zip:	32033	

Services are provided with Rear Load Trucks. Commercial and Industrial services are provided to businesses through an open competitive market.

City of Lake Wales	Rate:	$15.87	Start Date:	7/1/2001	Expiration Date:	9/30/2024		
Number of Homes Serviced:	5,167	Garbage Tons/Year:	5,105	Recycle Tons/Year:	1,142			
Main Contact:	James Slaton - City Manager	jslaton@lakewalesfl.gov	Phone No.:	(954) 746-3233				
Address:	201 W. Central	City:	Lake Wales	St:	FL	Zip:	33853	

Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided seven days per week.

Republic Services
Municipal Contracts - Florida

City of Coconut Creek	Rate:	$16.15	Start Date:	2/1/1995	Expiration Date:	9/30/2026	
Number of Homes Serviced:	25,122	Garbage Tons/Year:	24,821	Recycle Tons/Year:	5,552		
Main Contact:	Alex Tergis Assistant Public Works Director	atergis@coconutcreek.net	Phone No.:	(954) 545-6623			
Address:	4800 Copans Road	City:	Coconut Creek	St:	FL	Zip:	33064
Services are provided with Automated Side Load Trucks. An additional 11,059 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week.							

City of Weston	Rate:	$18.51	Start Date:	10/1/2012	Expiration Date:	3/31/2024	
Number of Homes Serviced:	25,541	Garbage Tons/Year:	25,235	Recycle Tons/Year:	5,645		
Main Contact:	Karl Thompson - Assistant City Manager	kthompson@westonfl.org	Phone No.:	954 285-2000			
Address:	2599 S. Post Rd.	City:	Weston	St:	FL	Zip:	33332
Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week.							

City of Frostproof	Rate:	$15.48	Start Date:	7/1/2006	Expiration Date:	6/30/2024	
Number of Homes Serviced:	987	Garbage Tons/Year:	975	Recycle Tons/Year:	218		
Main Contact:	Nicole McDowell - City Manager	NMcdowell@cityoffrostproof.com	Phone No.:	(863) 635-7832			
Address:	111 West First St.	City:	Frostproof	St:	FL	Zip:	33843
Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week.							

Republic Services

Municipal Contracts - Florida

City of Haines City	Rate:	$14.41	Start Date:	1/1/2006	Expiration Date:	12/31/2023	
Number of Homes Serviced:	9,150	Garbage Tons/Year:	9,040	Recycle Tons/Year:	2,022		
Main Contact:	Deric Feacher - City Manager		dfeacher@hainescity.com	Phone No.:	(863) 421-3777		
Address:	620 E. Main St.	City:	Haines City	St:	FL	Zip:	33844
Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Republic has serviced the City for 40 years.							

City of Oviedo	Rate:	$17.66	Start Date:	10/1/2008	Expiration Date:	9/30/2020	
Number of Homes Serviced:	11,173	Garbage Tons/Year:	11,039	Recycle Tons/Year:	2,469		
Main Contact:	Joe Grusauskas - Solid Waste Director		jgrusauskas@cityofoviedo.net	Phone No.:	(407) 971-5644		
Address:	400 Alexandria Blvd	City:	Oviedo	St:	FL	Zip:	32765
Services are provided with Automated Side Load Trucks. Commercial and Industrial services are provided to businesses through an open competitive market.							

Hilllsborough County, FL	Rate:	z1:$9.71 z3:$13.41	Start Date:	10/1/2013	Expiration Date:	1/31/2022	
Number of Homes Serviced:	110,000	Garbage Tons/Year:	85,789	Recycle Tons/Year:	27,591		
Main Contact:	Kim Byer-Director of Solid Waste		byerk@hillsboroughcounty.org	Phone No.:	813-272-5680		
Address:	332 N. Falkenburg Rd	City:	Brandon	St:	FL	Zip:	33619
Service residential customers with automated side load trucks in 2 of 5 zones. Commerical is franchised to the 3 residential haulers and industrial is open market.							

Republic Services

Municipal Contracts - Florida

City of Gulf Breeze	Rate:	$15.71	Start Date:	2/1/2018	Expiration Date:	1/31/2023	
Number of Homes Serviced:	2,134	Garbage Tons/Year:	644	Recycle Tons/Year:	99		
Main Contact:	Samantha Abell-City Manager	sabell@gulfbreezefl.gov	Phone No.:	850-203-6033			
Address:	P.O. Box 640	City:	Gulf Breeze	St:	FL	Zip:	32562
Services we provide are residential MSW, Recycling, and YW cart containerized serviced with ASL trucks. Commercial and Industrial are included in executive franchise.							

Facilities

Our business is to help you and your residents be environmentally responsible in their homes and workplaces. As you would expect, we strive to be exemplary in our environmental compliance and responsibility.

Our facilities are engineered for safe, environmentally friendly operations. We use sustainable materials that facilitate energy and water conservation and design principles to enhance employee and guest safety and comfort.

Providing great recycling and waste services to your community requires the existence of multiple types of facilities, which typically include:

- Hauling company
- Transfer station

Following is a brief description of each of our most common facility types. One or more of these facility types may reside at the same physical address/location in a city.

Hauling Company

A hauling company is where the community recycling and waste collection services are based. These facilities typically serve several important functions that are critical to delivering exceptional service to your residents:

*Figure 13. **Hauling Company**. Our hauling operations are the core of the collection service to your community, offering a truck fleet with the most tenured drivers in the industry.*



Facilities that work with the environment are basic design elements at Republic Services

- Our newest recycling center was constructed of 75 percent recycled steel and used 1,776 solar panels
- More than half of the materials in our new Customer Resource Center are from repurposed materials, and it uses LED and natural lighting throughout
- Low-flow water fixtures and xeriscaping in our newest facility in the southwest reduces water consumption by 20 percent
- Republic Services has operations in 240 markets across the US
- Responsibly operate 340 collection operations across the country

- A yard for housing all the vehicles that serve the community, including fueling infrastructure, if possible
- Storage yard for spare carts and dumpsters and those used to serve the residential, commercial, and industrial customers in the community
- An industry-leading maintenance facility, which delivers service for the trucks, carts, and dumpsters
- Training facilities to keep our workforce at the forefront of learning and safety
- Administrative offices to interact with your municipal staff

Typically, our largest workforce presence exists at a hauling company to support the complex operation that goes into serving your community with a 99.9% pickup reliability rate.

Key Personnel

Our operations are run locally by seasoned industry veterans who live in your community and are backed by the experience and strength of their area and corporate leadership teams.

Republic Services is structured along functional lines, which allows for local decision-making by managers with direct responsibility and experience relevant to the contract operations. They are knowledgeable of local collection and post-collection processing activities. They are supported by the extensive resource recovery technical expertise and financial strength of our parent company, Republic Services, Inc.

Republic Services' in-house training, personnel advancement, recruitment programs, and workforce development are some of the most comprehensive in the industry. This enables Republic Services to attract and retain the most highly qualified, dedicated, and experienced professionals in the business today.

Local Leadership

Our local personnel are vital to the successful delivery of this contract and its daily operations. We will manage the various operational and administrative components of contract implementation and ongoing service to North Lauderdale. This team's unique combination of collection experience, recycling expertise, and innovative management systems will ensure quality service for the duration of the contract.

Our local and area management teams have extensive industry experience operating and managing solid waste companies and have substantial experience in the region. This allows us to quickly respond and meet your needs; all-the-while staying in touch with your local businesses and residents. We believe our strong area management team will enable us to effectively and efficiently drive our initiatives and helps ensure consistency across the organization. These teams have extensive authority, responsibility, and autonomy for operations within their geographic markets. Because of retaining experienced managers with extensive knowledge of their local communities, we are proactive in anticipating customers' needs and adjusting to changes in the markets. We also seek to implement the best practices of our various business units throughout our operations to continue improving our operations and service to our customers.

Local Business Unit has over 90 years of combined industry experience

- We provide jobs to more than 36,000 people nationwide, including 157 who live and work in Broward County
- The local General Manager and his business unit are fully empowered to serve your needs
- Every business unit is supported by area and corporate staff

National Backing

Each of our local business operations is fully empowered and accountable for delivering on our commitments to our customers. They are also backed by the support and breadth of our area and corporate leadership teams, capable of massing expertise and corporate might to assist or respond to any challenge during the term of the contract. An example of this benefit to you is the response capabilities during times of crisis such as

*Figure 14. **Empowered Leadership**. The local business unit is fully empowered, with the full support of the area and corporate staff.*



hurricanes, tornados, or other disasters. In times of challenges like this, our area and corporate teams activate to ensure people are safe and our assets are operational to return to normal operations as soon as possible.

Key Personnel

Your local team has been working together for years, serving four municipalities in your area. The key positions and roles involved in the delivery of this contract are listed below:



Jamey Amick
Area President
jamick@republicservcies.com
Jamey Amick has over 30 years of experience in the solid waste industry and oversees the strategic and operational direction for the Southeast Area. Mr. Amick has been with Republic Services for 25 years. He is responsible for managing 4100 employees in the 92 solid waste divisions, including 24 landfills, 22 transfer stations, and six materials recovery facilities (recycling centers). His area market generates 1.25 Billion in annual revenue with a focus on integrated strategic growth.



Jean Pierre Turgot
General Manager
jturgot@republicservices.com
(954) 279-9293
751 NW 31st Ave, Lauderhill, FL

Jean Pierre has six years of waste industry experience and extensive general management experience with 20 years in the hospitality industry. As a general manager at Republic Services, Jean Pierre is responsible for the Fort Lauderdale Business Unit's overall operations servicing four municipalities and open market commercial businesses in Broward County. He serves on several boards, including the Museum of Science and Discovery, the Haitian American Chamber of Commerce president, and is active in the community.



Joanne Stanley
Municipal Services Manager
jstanley@republicservices.com
(561) 719-8638
751 NW 31st Ave, Lauderhill, Fl

Joanne brings 25 years of waste industry experience to her current position. She has been a Republic Services employee for 14 years. She has held various sales and municipal positions in the industry, including Major Account Manager, Sales Manager, Area Sales Manager, National Sales Manager, and now Municipal Services Manager for the Palm Beach and Broward County Business Units. Joanne is responsible for procuring and maintaining Municipal Contracts in Palm Beach County, Broward County, Brevard County, Indian River County, St Lucie County, Okeechobee County, and Glades County. Additional responsibilities include marketing, public education, project development, and governmental relations and negotiations. Joanne is very active in the community, serving on Boards and volunteering for many organizations.



Muriel Attilus
Operations Manager,
mattilus@republicservices.com
954-279-7527
731 NW 31st Ave, Lauderhill, FL

Muriel has been a Republic employee for seven years and has held Customer Service Supervisor, Operations Supervisor, and now the Operation Manager in Fort Lauderdale. With her background in Collections (Hauling), Muriel manages the Fort Lauderdale division's daily operations. She

interacts with customers and government employees daily to ensure maximum productivity and customer satisfaction for residential, commercial, and industrial/construction services while adhering to regulatory compliance standards. Muriel leads a large team of professional operations employees to provide service to our municipalities and open market customers.



Mike Rizopoulos
Business Unit Controller
mrizopoulos@republicserrvices.com
(954) 327-9580
751 NW 31st Ave, Lauderhill, FL

Mike has 17 years in the solid waste industry with Republic Services and has worked in various divisions nationwide. He has held multiple positions in accounting and finance. Mike is currently responsible for all administrative, accounting, and statistical reporting functions for four municipalities at the Fort Lauderdale business unit. He ensures that financial controls and records are maintained per company policy and legal requirements. He is responsible for providing and reviewing with the General Manager and staff financial statements and variance analyses, billing, account reconciliation, and analytical support and assistance for the division goals and action plans.



Tim Martin
Maintenance Manager
tmartin@republicservices.com
(561) 578-8323
751 NW 31st Ave, Lauderhill, FL

Time has been in the waste industry for 11 years, including seven years with Republic Services. He has extensive experience in heavy Equipment vehicle maintenance of medium and large fleets. He is responsible for overseeing all aspects of the fleet vehicles using his expertise and extensive knowledge in inspections, diagnosis, and repair of electrical, hydraulic, suspension, drive train, engine, brake, and air systems on all waste industry vehicles, including CNG fuel systems repairs. Tim leads a team of 15 professional technicians to ensure DOT compliance and One Fleet reliability. He is also responsible for maintaining, facility owned by Republic Services in Broward County.



Tracy Aubin
Human Resources Manager
taubin@republicservices.com
(954) 599-6446
751 NW 31st Ave, Lauderhill, FL

Tracy has been employed with Republic for 25 years, working in various positions throughout her career, including Corporate HR Representative, Sr. Corporate HR Manager, Area HR Manager, and now Business Unit HR Manager. Tracy works closely with business leaders and line managers to achieve shared organizational objectives, mainly designing and implementing HR processes that support strategic business goals. Tracy is also responsible for upholding Republic's policy to ensure that all applicants and employees are provided an equal opportunity; in addition to ensuring proper staffing levels are maintained, employees are afforded job-related training and career advancement, as well as coordinating employee recognition and appreciation events to maintain a high employee retention rate and culture where the Best People Want to Work.

Key Personnel Resumes

Name: James G Amick Jr	**Area/Business Unit:** Southeast Area
Present Title: Area President, Southeast Area	**Date of Hire: 01/12/1998**
Manager: Bryan Boyer	

BIO SUMMARY *(this should include current position & responsibilities, and education or special skills)*

Professional Background

A highly-driven Operations Executive with over 30 years experience in the solid waste industry, who has demonstrated the ability to lead diverse teams of professionals to new levels of success in a highly competitive and fast-paced environment. Strong marketing strategist with proven ability to grow markets organically to increase market share. A true leader with a long, successful track record to drive results by analyzing an organization's critical business needs & to ensure innovative, cost-effective solutions.

Work Experience

Area President - Southeast Area

Accountable for developing market strategy for the Southeast Area. Sets the strategic direction that anticipates and addresses the needs of our customers. Build and lead the team that will deliver strategy and operational service level excellence, while managing profit forecasting and achieving financial targets. Provides executive leadership to the operations, program management, and delivery support teams who define and implement best practices for managed services. Leads a team of 9 Direct Reports.

- Provide general management responsibilities: P&L accountability, portfolio management, forecasting and operations governance.
- Directs employee development strategy that will ensure service delivery to the markets we serve.
- Provides leadership & support to the General Manager/Area Staff to ensure overall customer satisfaction remains high
- Market Development

REPUBLIC SERVICES 1998 to Present

Education

Bachelor of Science, Business Administration and Marketing, University of South Carolina - Upstate 1985 – 1990

LAST FIVE YEARS AT COMPANY

Job Title	Year(s)	Responsibilities and Indicators of Scope/Size
Area President, Southeast Area	2016 - Present	Senior executive responsible for total Area P&L with $1.4B annual revenues, 20 Business Units, 90 Operating Divisions, 4200 Employees
Area President, Carolinas	2012 - 2016	Senior executive responsible for total Area P&L with $425M annual revenues, 9 Business Units, 41 Operating Divisions, 1215 Employees

OTHER POSITIONS HELD AT OTHER COMPANIES

Job Title	Year(s)	Company (RSG/AW or other)
Area President – SC/Charlotte	2008 - 2012	Republic Services
Area President – SC/Coastal GA /N FL	2000 – 2008	Republic Services
General Manager – Savannah GA	1998 – 2000	Republic Services



Jean-Pierre Turgot, General Manager
Republic Services of Florida, Limited Partnership
e jturgot@republicservices.com
o 954-327-9555 c 954-279-9293

Summary of Qualifications

Jean-Pierre serves as the General Manager of the Fort Lauderdale Business Unit. He comes to Republic with a wealth of management skills: Multi-unit operations, P & L Management, Risk Management, Customer relations and Satisfaction, Sales and Municipal Marketing, Human Resource Management.

Experience

Republic Services

2014 – Present **General Manager** Fort Lauderdale, FL

Responsible for the Fort Lauderdale Business Unit's daily operations, including annual revenues exceeding $45 million from residential, commercial, and industrial waste and recycling collections throughout Broward County, in addition to oversight of the Envirocycle Recycling Center.

Delaware North Companies

2011-2014 **General Manager** Fort Lauderdale, FL
1989-2007 **Director, Food and Beverage** Cape Canaveral, FL
Kennedy Space Center Visitor Complex

Managed food and support services staff, consisting of 44 Managers and 900+ hourly associates within 52 outlets, at Broward County/Fort Lauderdale Airport, responsible for generating over 62 million annually. Played a key role in negotiation with Broward County Commission to extend the Airport Concessionaire contract.

ARAMARK Corporation

2007-2011 **General Manager** New Orleans, LA

He oversaw all operational and financial aspects of food and beverage for 3.2 million square feet of Convention Center space consisting of 140 meeting rooms, 4,000 seats State-of-the-Art auditorium seating 4,000 and 1.1 million square feet of exhibit space with two luxurious ballrooms 400 seat restaurant and 18 concession areas.

Education

- Rockland Community College, Spring Valley, NY
- Hotel & Restaurant Management, New York Institute of Technology, Long Island
- IT Operation Certification, Louisiana State University Shreveport, Shreveport, LA (1990)
- Jesuit College St Martial High School, Port-au-Prince, Haiti (1985)
- LEEDS Silver Commissary Team

Municipal Contracts

Coconut Creek; Weston; Sunrise; Lauderhill; Pembroke Park; and Fort Lauderdale

Joanne Stanley-Manager, Municipal Services
Republic Services of Florida, Limited Partnership
e jstanley@republicservices.com
o 954-626-2160 c 561-719-8638
f 954-584-1453



Summary of Qualifications

Joanne has over 25 years of experience in the recycling and solid waste industry, including business development, budgeting, special events coordination, public relations, marketing, and community outreach. She is responsible for procuring and maintaining all municipal and governmental contracts for Republic Services throughout South Florida and the Treasure Coast. Additional responsibilities include public education, project development, governmental relations and negotiations, marketing.

Experience

2010–Present **Republic Services Inc.-Manager, Municipal Sales**
Responsible for procuring and maintaining Municipal and Governmental Contracts in Palm Beach, County, Brevard County, Indian River County, St Lucie County, Okeechobee County, and Glades County. Additional responsibilities include marketing, public education, project development, and governmental relations and negotiations.

2008–2010 **Republic Services, Inc. -Area Sales Manager**
Responsibility for revenues exceeding $230 million annually from commercial, industrial, residential, and recycling lines of businesses throughout South Florida and Puerto Rico.

2006-2008 **Republic Services of Palm Beach –Sales/ Marketing Manager**
Manage a sales and customer service team. Responsible for sales revenues and budgets for new growth through municipal, commercial and industrial collections services.

2005-2006 **National Environmental Waste Services, Inc.- National Sales Manager**
Responsibilities were new sales growth and maintaining national accounts.

2003-2005 **Casella Waste Systems, Inc. - Sales Manager**
Managed six sales representatives and was responsible for growth and retention of $2.5 million in revenues.

2002-2003 **Waste Management, Inc. -Major Account Manager**
Maintain all major accounts over $2,000 per month in the Boston market.

1993-2002 **Browning Ferris Industries (Allied Waste) -Municipal Marketing Manager/ Major Account Manager**

Managed all government relations and municipal sales-related activities within the District to improve and maintain relationships, organization, consistency, and comprehensiveness of related policies, programs, and systems.

Education

1983 Florida State University
BA German

Municipal Contracts: Palm Beach County, Royal Palm Beach, Palm Springs, Ocean Ridge, Pembroke Pines, Lantana, Coconut Creek, Sunrise, Fort Lauderdale, Weston, Indian River Shores, Indian River County Lawrence, MA, Billerica MA, Bedford, MA, Lexington MA, Hudson NH, Danbury NH, and Lowell MA.

Michael "Mike" Rizopoulos-Division Controller
Republic Services of Florida, Limited Partnership
e mrizopoulos@republicservices.com
o 954-327-9580 c 630-878-5943



Objective

Mike has18 years within the solid waste industry and is currently responsible for all administrative, accounting, and statistical reporting functions for Republic Services. He ensures that financial controls and records are maintained per company policy and legal requirements.

Additionally, responsible for providing and reviewing with the General Manager and staff financial statements and variance analyses, billing, account reconciliation, and provide analytical support and assistance for the division goals and action plans.

Develops and coordinates the annual budget and contract rates for municipality bids. Manages and trains staff in the accounting department.

Years of Experience

Republic Services 2012- Present	Division Controller	Fort Lauderdale, FL
Allied Waste Services 2004-2012	Division Controller	Melrose Park. IL
Waste Management 2002-2004	Senior Accountant	Oakbrook, IL

Education

- Bachelor of Science-Accounting, Long Island University (1979)
- C.W. Post College, Greenvale, NY

Municipal Contract Oversight

Coconut Creek; Weston; Sunrise; Lauderhill; Pembroke Park; Fort Lauderdale; Melrose Park, IL; Hinsdale, IL; Downs Grove, IL; Oakbrook, IL



Muriel Attilus-Operations Manager
Republic Services of Florida, Limited Partnership
e mattilus@republicservices.com
o 954.797.3178 c 954.279.7527

Summary of Qualifications

Muriel has four years of industry experience in operations and three years in customer service. She manages the daily operations for a hauling division and ensures maximum productivity and route management systems for commercial, roll-off, and residential routes, and establishes productivity improvement goals where needed. Responsible for the adherence to operating standards, the development of supervisory goals & objectives, and the management of labor hours and disposal expenses. Directly manages the budget for the operations department, which includes approval of purchase orders and vendor pricing. Interacts with customers and local, state, and federal government employees to resolve customer service concerns and ensure regulatory compliance standards are met.

Years of Experience

Republic Services

2020-Present **Operations Manager** Fort Lauderdale, FL
Responsible for all day-to-day operations in the business unit.

2016-2020 **Operations Supervisor** Fort Lauderdale, FL
Managed hiring, staffing, and day-to-day operations of the Residential and commercial line of business, while establishing productivity and staffing plans.

Republic Services

2013-2016 **Customer Service Supervisor** Fort Lauderdale, FL

Devon Security

2009-2011 **Customer Service Manager** Hollywood, FL

Education 1994

- Edison Senior High School, Miami, FL - 1998

Municipal Contract Oversight

Weston; Lauderhill; Fort Lauderdale; Sunrise; Coconut Creek, Pembroke Pines, and Pembroke Park

Open Market Oversight

Open Market Commercial and Industrial in Fort Lauderdale and Hollywood



Timothy A. Martin-Maintenance Manager
Republic Services of Florida, Limited Partnership
e tmartin5@republicservices.com
o 954-327-9514 c 954-658-4156

Summary of Qualifications

Timothy has over 36 years in heavy equipment vehicle maintenance and has been responsible for the scheduled and unscheduled preventive maintenance of medium and large volume fleets. Plans organize, direct, and manage the division's maintenance function to maintain a safe, reliable, and cost-effective fleet of vehicles and equipment and an adequate supply of containers. He is responsible for maintaining full compliance with all safety, DOT, and preventive maintenance processes. Timothy manages a team of 15 technicians, the truck and container shop for Republic services.

Years of Experience

Republic Services

2012-2016	Maintenance Manager	Fort Lauderdale, FL
2005 – 2012	Waste Management	
2009 – 2012	Buckeye Valley Waste	

Education

- United States Marine Corps (1997-2012)
- Grandville High School, Grandville, OH (1978)

Continued Education

Allison Transmission III Generation IV; MP& Engine; Mack-E-Tech Motors; Diagnosis of Telma Braking System; Compass M4-M5; Friction Basics; Diesel Engine Maintenance Instructor Training

Municipal Contract Oversight

Coconut Creek, Weston; Sunrise; Lauderhill; Pembroke Park, and Fort Lauderdale.

POSITION TITLE: TBD- Operations Supervisor – Hauling Operations

PRINCIPAL RESPONSIBILITIES:

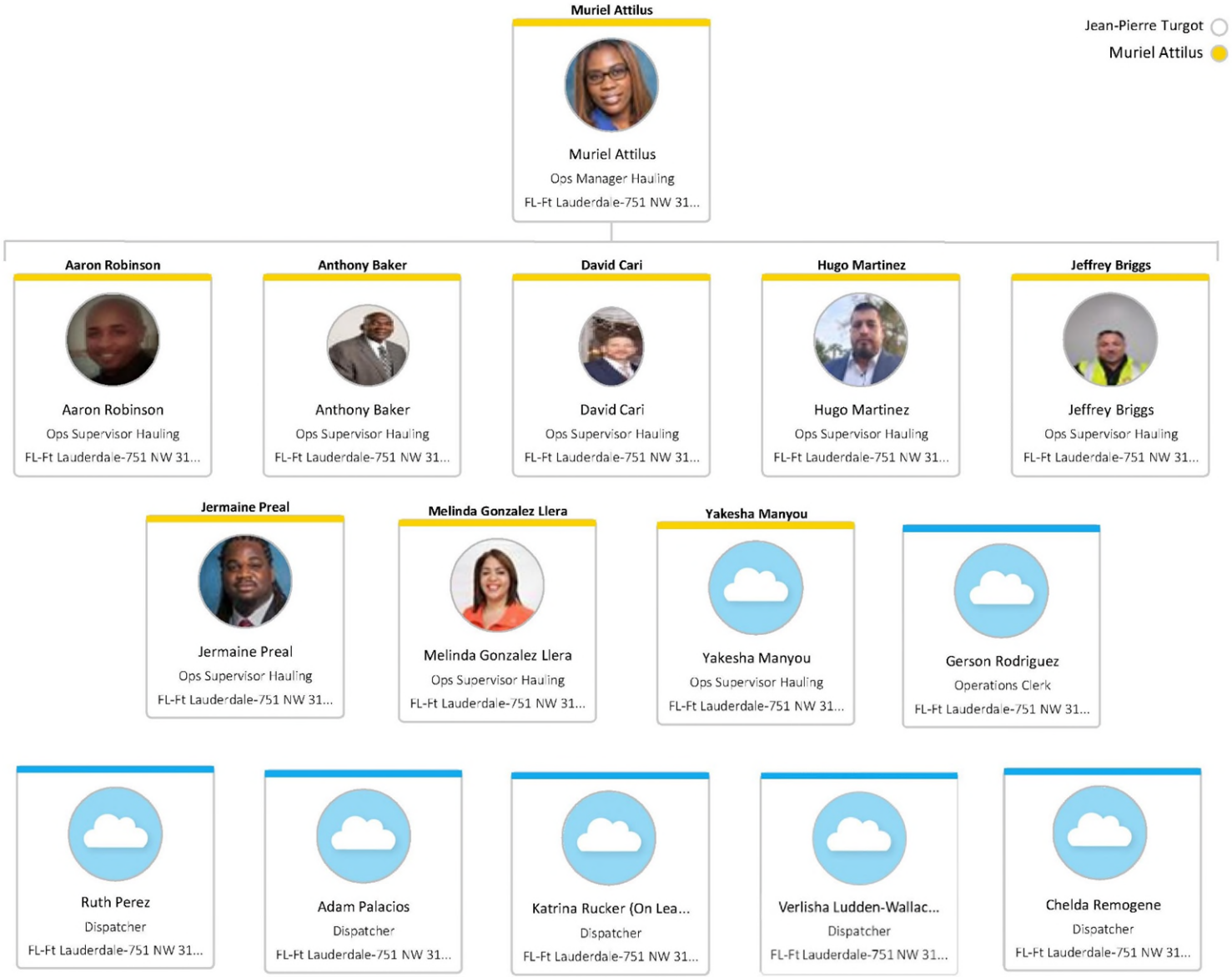
Safety

- Understand and provide leadership to achieve and communicate safety goals and objectives.
- Work to remove unsafe conditions or situations from drivers' routes.
- Work with the sales team to identify and eliminate unsafe conditions on new routes or new customers.
- Partner with the maintenance department to ensure all equipment remains in working order and compliance with safety standards.
- Oversee adequate safety and accident prevention programs to ensure all reasonable actions are taken to prevent accidents and injuries; ensure a safe and productive work environment for all employees; implement and maintain an effective loss control and safety program.
- Engage assigned employees in active participation to instill a culture of safety by demonstrating a personal commitment to safe operations and active personal outreach to operational employees

Customer Experience

- Provide service to all customers that meet or exceed customer expectations regarding the entire customer experience.
- Understand missed pickup goals and meet or exceed expectations related to those goals.
- Resolve unusual service requests, equipment breakdowns, and schedule changes with timely communications to all stakeholders.
- Interact with customers to solve and rectify any issues and improve the overall customer experience.
- Serve as a positive representative of the company to drive customer satisfaction and loyalty to the company.

Operational Org Chart



Subcontract

As an industry leader, Republic Services is committed to partnering with small, disadvantaged, minority-owned, woman-owned, and veteran-owned business enterprises. These relationships help grow successful businesses in the municipalities we serve and live in.

Our experience and interaction with state and local governments will allow Republic Services to work with our municipal partners in Broward County and adhere to government procurement law. We can also assist qualified contractors with earning and retaining SBE certification.

Subcontracting Opportunities

Republic Services employs subcontractors wherever possible to promote local jobs and economic development. Typically, our subcontractors have specialized skills and knowledge, which allows Republic Services to focus on our core functions.

Opportunities for subcontracting vary based on location and often include:

- Bulk and Yard Waste Collection Services

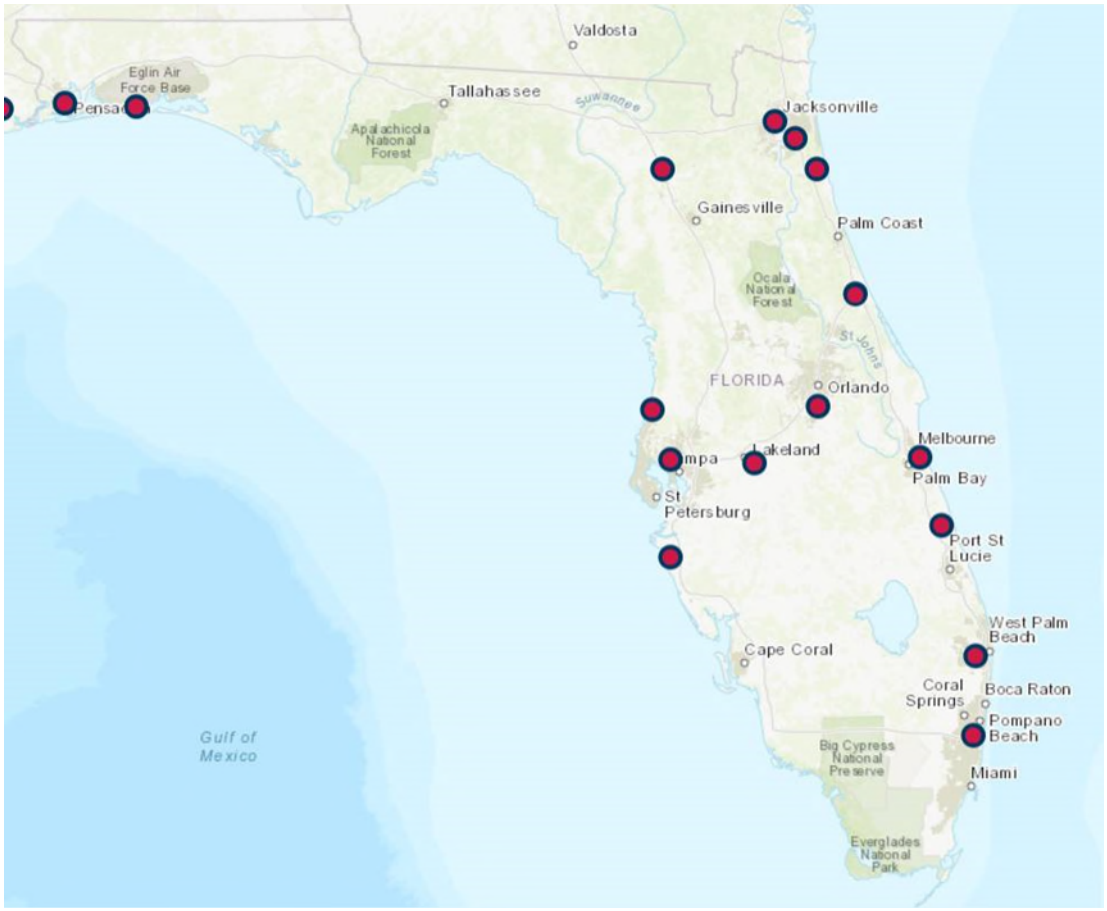
The Subcontractor will report to the Operations Manage.

a. Republic Services is proposing to use Eastern Waste Systems, Inc. (EWS) as subcontractor performing residential bulk collection services. EWS is locally headquartered at 1660 NW 19th Ave. Pompano Beach, FL 33069, less than 3 miles from the City of Margate. b. The local contact for EWS is Michael Marzano, and the telephone number for EWS is (954) 543-9800. c. EWS will be assigned the residential bulk collection and any multi-family units receiving residential waste collection services under the terms and conditions of the Franchise Agreement. d. EWS will be responsible for all residential bulk collection and any supplemental collections as directed by Republic Services. 20%

Florida Based Locations

Republic Services of Florida, Limited Partnership consists of :

- 14 Hauling Facilities
- 4 Material Recovery Facilities
- 3 Landfills
- 1,457 Employees
- 794 Front Line vehicles



V. Operational Plan

Great operations come from great people. Republic Services' locally based operations team draws from extensive training and the backing of a seasoned corporate support team. The result is a 99.9% on-time service record, emphasizing safety, sustainable practices, and low-risk operations.

Operations Overview

Successful collection operations begin with a skillful operations supervisor who knows the business as well as your community. Your Republic Services local operations supervisor is responsible for the day-to-day collection operations, including development and evaluation of routing (in conjunction with the general manager), training and oversight of drivers, and implementation and enforcement of safety procedures.

We ensure our operations supervisors are not overloaded nor tied to a desk. On average, we maintain a 15:1 ratio of routes to supervisors, which means that items needing attention are dealt with immediately and that the supervisor knows your community intimately. In addition, our supervisors are out on the routes regularly. At least twice per week, they conduct ride-along with drivers on their routes. This creates great opportunities for driver mentoring, ensures quality control on the route, and keeps the supervisor directly aware and familiar with the nuances of the route and the community. If any other companies in the industry dedicate their operations staff to success in this manner, few, if any other companies in the industry.

*Figure 15. **Operational Excellence**. Our rigorous supervisor training program yields highly skilled operations teams.*



Republic Services' operations team is market-leading through training, collaboration, and hands-on experience

- The most robust operations supervisor training in the industry
- Average of 15:1 route to dedicated supervisors' ratio – means prompt response and oversight for your community
- Proven optimized routing process ensures efficiency, safety, and minimal impact on city streets
- Republic Services executes 4.9M pickups per day

Operations Training

Our operations supervisor training programs are second to none. Every supervisor, upon starting employment at Republic Services, attends a rigorous 2-week boot camp training course. Regardless of prior industry experience, this boot camp level sets all our supervisors on The Republic Services Way of running operations and builds a strong peer network with those who attend the training together. After the initial training boot camp, supervisors engage in regular refresher and new training opportunities, between 2 and 4 times per year. This yields an operations supervisory team that shares best practices and constantly looks for ways to improve your community's level of service.

Routing Optimization

Establishing the most optimized routes for a community has dramatic effects on the quality of service, safety, and efficiency of the collection operation through shorter routes, safety in the neighborhoods, and

ultimately the wear and tear on the streets within the municipality.

We conduct a proven route optimization process, which involves a tight collaboration between the local team and our corporate route optimization team. Through several iterations, these teams collaborate, sharing local knowledge and details while running our optimization processes to yield the best routes possible for your community. An example of this process is that we evaluate planned routes to ensure that trucks are not conducting collection on streets during times known for congestion or traffic.

Communication with the Community

Besides the regular collaboration between the routing teams, our operations team can easily communicate with the residents and commercial customers using several forms of technology. Our Republic Services web- and smartphone-based app enables customers to see their accounts, make service requests, or raise issues for resolution. This app also enables our operations team to offer alerts or emails to customers regarding changes in service for holidays or inclement weather. We also employ a technology known as Call-Em-All, which is a phone-based capability for distributing operations updates when needed to customers on affected routes.

Economy of Scale

Another benefit of Republic Services as your partner is our economy of scale. As an industry leader with a national operation, we obtain trucks and equipment at a better price due to discounting, which allows us to refresh our assets more frequently than smaller companies. This applies to many of our vendors, including our uniforms, so our drivers and operations teams are better representatives of your city when out in the community.

Digital Operations

We are also leveraging technology to digitally connect our customers, drivers, dispatchers, supervisors, and trucks via our "RISE" dispatch platform and in-cab technology. We utilize an agile, iterative approach to this technology's development and multi-year roll-out to ensure durable adoption and an appropriate return on our investment. With the roll-out of this technology, we will improve productivity through more real-time routing information and data visualization tools, increase customer connectivity, enable automated service verification communications, and enhance the employee experience by providing better tools and technology designed around how our employees will interact with it.

*Figure 16. **RISE Platform**. Our new platform is in the process of rolling out over the next few years and will yield an even safer, more efficient collection for your municipality.*



Collection – Residential

Republic Services knows how important safe and dependable curbside pickup is to you when it comes to handling your waste needs. We work to exceed your expectations with quality carts and dumpsters and outstanding customer service.

Residential MSW Collection

We intend to service single-family carts using four automated side loader (ASL) trucks and one rear-load truck for those backdowns and hard-to-service solid waste and recycling areas.

The ASL is proven to retrieve and return carts in even the most hard-to-reach locations such as narrow streets, courts, and alleyways, enabling the industry's most efficient, safe, and environmentally responsible curbside automated collection services.

Each collection vehicle is operated by a single driver and will be painted in a uniform manner, featuring our logo and company contact information.

The largest provider of municipal residential collection services in the US

- Over 12 million homes collected every week nationwide
- 99.9% on-time pickup
- 4.9M pickups each day
- Comprehensive collection services, including solid waste, recycling, yard waste, and bulk

*Figure 17. **Residential Collection process**. Our residential collection service is simple, reliable, and environmentally responsible.*



Residents will be offered the option of choosing a 65- or 95-gallon cart. If a customer needs more than one collection cart, we will provide an additional cart for a fee to accommodate the customer's needs.

The ASL cart collection methodology is fast and efficient. It requires approximately 8 to 12 seconds to complete the cycle (pick up the cart, deposit contents, place cart back onto the curbside) before the driver moves to the next stop.

We propose to have five drivers and one helper to service the residential solid waste and recycling.

Residential Recycle Collection

We will offer all single-family customers weekly, fully automated single-stream recycling collection services. Recycling carts will be serviced with the same equipment and manner as residential solid waste carts.

All single-family customers who will need a replacement cart will be delivered within the requirements of the RFP.

Residential Yard Waste and Bulk Collection

We will offer all residential customers a weekly, automated collection of accepted yard waste materials. Yard waste will be service with clam shell type equipment, and

*Figure 18. **Automated Side Load Collection.** Provides a cleaner, safer, more efficient residential collection.*



Republic Services intends to subcontract these services to EWS.

Service Days

The following table reflects the service schedules for residential MSW, recycle, yard waste, and bulk items collection.

*Figure 19 **Service Days**. Below are the service days for your contract.*

Service	Days of Week	Collection Hours
MSW	Mon-Sat	7:00 AM-7:00 PM
Recyclables	Mon-Sat	7:00 AM-7:00 PM
Bulk and Yard Waste	Mon-Sat	7:00 AM – 7:00 PM

Holiday Schedules

Republic Services will be closed on Christmas; if your service day falls on one of these days, we will service you on your next scheduled service day.

Collections – Commercial

Republic Services provides effortless recycling and waste solutions for our commercial customers, working with them to evaluate and optimize their solutions.

Commercial Solid Waste

From monthly to daily collections and dumpster sizes ranging from 2- to 8-yards in size, Republic Services offers solid waste, recycling, with a variety of dumpster sizes and service frequencies to meet every business' needs.

Our commitment to you is simple; we will:

- Complete every collection as scheduled
- Return the cart to its dedicated location
- Clean loose litter or debris
- Ensure that enclosures are properly secured

Commercial Recycling

Republic Services offers single-stream recycling, in which the customer deposits recommended empty, clean, and dry recyclable materials in the one recycling cart. Republic Services then collects and transports the materials to the Recycling Centers for separation and processing.

Republic Services also offers source-separated recycling for cardboard and other commodities that can be taken directly to a local processing facility.

Flexible, Tailored Solutions

Our dedicated team is available to consult with businesses and communities of any size to conduct a comprehensive on-site waste assessment (Figure 37) to determine the needed services, collection frequencies, and dumpster sizes. We will identify dumpster locations and access paths that allow for safe, convenient service during the assessment.

Right-sizing service levels can increase waste diversion, improve collection productivity, and lead to reduced costs for customers.

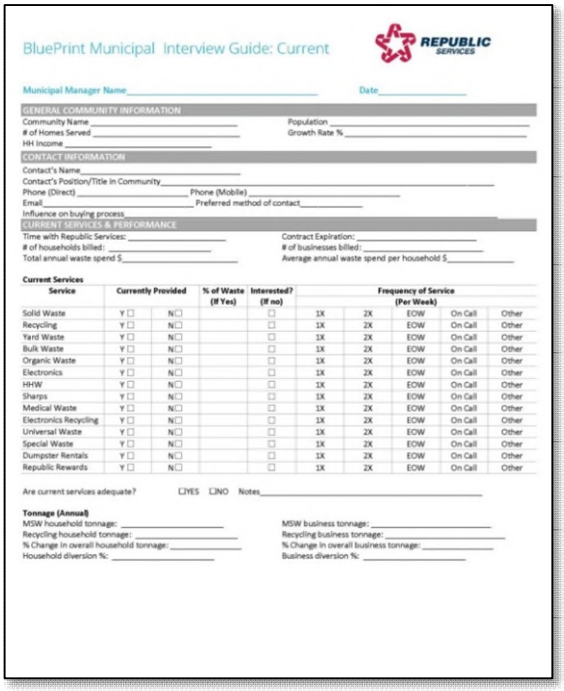
Commercial customers enjoy options and tailored solutions, regardless of company size

- In-person waste audits for commercial customers confirm the right level of service
- Wide range of services, including waste, recycling, and innovative sustainable solutions
- Range of dumpster sizes, from 2 to 8 yards, with an average lifespan of over 10 years

Dumpsters

Republic Services uses small dumpsters constructed of durable steel bodies and two plastic lids. Dumpsters range in size from 2 to 8 yards, and can be placed on casters for easy maneuverability, if necessary.

*Figure 20. **Waste Assessments**. An onsite waste assessment ensures that all your questions are answered.*



BluePrint Municipal Interview Guide: Current

REPUBLIC SERVICES

Municipal Manager Name_____ Date_____

GENERAL COMMUNITY INFORMATION

Community Name_____ Population _____

# of Homes Served _____ Growth Rate % _____

HH Income _____

CONTACT INFORMATION

Contact's Name_____

Contact's Position/Title in Community_____

Phone (Direct) _____ Phone (Mobile) _____

Email_____ Preferred method of contact_____

Influence on buying process_____

CURRENT SERVICES & PERFORMANCE

Time with Republic Services: _____ Contract Expiration: _____

# of households billed: _____ # of businesses billed: _____

Total annual waste spend $_____ Average annual waste spend per household $_____

Current Services

Service	Currently Provided		% of Waste (If Yes)	Interested? (If no)	Frequency of Service (Per Week)				
Solid Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Recycling	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Yard Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Bulk Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Organic Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Electronics	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
HHW	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Sharps	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Medical Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Electronics Recycling	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Universal Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Special Waste	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Dumpster Rentals	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other
Republic Rewards	Y ☐	N ☐		☐	1X	2X	EOW	On Call	Other

Are current services adequate? ☐YES ☐NO Notes_____

Tonnage (Annual)

MSW household tonnage: _____ MSW business tonnage: _____

Recycling household tonnage: _____ Recycling business tonnage: _____

% Change in overall household tonnage: _____ % Change in overall business tonnage: _____

Household diversion %: _____ Business diversion %: _____

Constructed of a strong plastic resin, dumpsters are helpful for small offices and businesses. Dumpsters are designed to last up to ten years, with easily interchangeable wheels and lids.

Methodology and Procedures

Republic Services uses front-load collection vehicles to service commercial dumpster customers in North Lauderdale. Customers with a 95-gallon or smaller cart are serviced with an automatic side-load (ASL) or rear load (REL) truck.

Front-Load Vehicles

We service commercial customers with front-load collection vehicles with [28]-cubic yard volume bodies because:

- The supplier is a company that has proven to be among the strongest, safest, and lowest maintenance trucks in the industry
- Our first-hand local knowledge shows that this truck's size and attributes will "fit" every neighborhood we service, including hard-to-service accounts

Republic will prose one frontload truck six days a week to service North Lauderdale's commercial and multi-family locations.

Automated Side Load Vehicles

Our automated side load vehicles (ASL) are typically dual-side-drive, with a low-entry cab, and equipped with a remote rear camera that:

- Allows easy ingress and egress to the curb
- Improves driver and pedestrian safety
- Reduces potential injury
- Increases productivity

ASL's can compact waste at idle speeds or even while on the move, and the large 5-cubic yard hopper greatly reduces litter.

Our ASL vehicles feature an arm with a patented vertical lift design that goes from ground-to-ground operation in 6.5 seconds, allowing for maximum curbside pickup in less time while also preventing litter and spillage.

Holidays & Schedule Disruptions

Republic Services will take all necessary steps to notify customers prior to all holidays and unforeseen schedule disruptions via our Republic Services app and the Call-Em-All automated calling system.

*Figure 21. **Dumpster Placement**. The correct placement allows for safer and consistent service.*



Collections – Industrial Roll-Off

Republic Services' versatility ensures that every roll-off customer receives the service they need every time, whether it's an on-call open top at a construction site or compactors at a hospital with strict service constraints.

Roll-Off and Compactor Collection Overview

Republic Services offers roll-off collection, hauling, and disposal services to more than 70,000 customers in the United States, often for the principal employers in an area, such as:

- Construction industry
- Manufacturers
- Public institutions
- Hospitals

Roll-off service is unique because every day requires a different route for each of our trucks. Republic will have one roll-off truck available to service commercial and some multi-family units. The truck requires only one driver.

Republic Services' roll-off services are essential for a strong and growing economy

- High capacity roll-offs ranging from 10 to 40 yards
- Complete inventory of roll-offs and backup equipment
- We have the resources to grow our fleet and equipment to meet industry needs

We ensure that all routes are optimized daily for efficiency and service with continual investment in the best employees, best practices, the best equipment, and the best technologies.

We provide a large inventory of open-top roll-offs, ranging in sizes from 10 to 40 cubic yards with scheduling options from on-call to multiple times daily, to meet the needs of every customer throughout the year. Republic Services can scale up services during peak times to accommodate large temporary projects or seasonal industries like construction.

*Figure 22. **Industrial Collection Process**. Our service is efficient, reliable, and comprehensive.*



Industrial Waste

Republic Services operates in Broward County and will deliver the industrial waste to permitted and the city designated facility.

Industrial Recycling

Republic Services excels at helping customers meet their sustainability needs by identifying disposal locations that can recycle their materials and sharing best management practices for on-site commodity separation. Implementation of a successful separation program will both increase commodity values and decrease landfill-bound volumes.

Special Waste

Republic Services' roll-off fleet is used to meet the special waste needs of our customers. We work with each customer to accurately characterize and profile disposal needs prior to collection and then collect and dispose of the waste in a manner that meets all regulatory requirements.

Methodology and Procedures

The collection is completed with roll-off trucks on the open-top roll-offs or compactors coupled with a highly trained, professional driver.

Servicing the roll-off starts by backing the truck up to the roll-off, hooking a cable from the truck, and then using a hydraulic mechanism called a "hoist" to pull the roll-off onto the truck. All Republic Services roll-off trucks are equipped with an automatic tarp placed over the dumpster to prevent spillage during transport. Once the driver loads the dumpster onto the truck, it is hauled to the disposal facility, dumped, and returned to the customer.

*Figure 23. **Industrial collection**. Drivers can typically collect 6-12 roll-offs per day.*



Service times vary daily and depend on distance from the last stop and the distance to the disposal site. In some cases, the driver will arrive at the customer's location with an empty dumpster and swap it for the full one.

Our hours of operation are 3 a.m. to 5 p.m. Monday - Saturday. On a typical day, the driver services 6 to 12 roll-off dumpsters. The maximum weight per load cannot exceed 10 tons on most U.S. highways.

Account Accessibility

Customers can easily access their accounts 24/7 with the Republic Services app or website. Customers can schedule a pickup, pay invoices, and even sign up for new services while on the go.

Holidays & Schedule Disruptions

Republic Services will take all necessary steps to notify customers prior to all holidays and unforeseen schedule disruptions via our Republic Services app and the Call-Em-All automated calling system.

Collection – Multi-Family

We provide an innovative combination of programs and services for multi-family customers.

Multi-Family MSW Collection

Republic Services can provide a combination of programs and services for multi-family customers, ranging from cart service like residential customers to containerized service like commercial customers. Once defined and properly sized, multi-family customers are integrated into residential or commercial routes to provide the efficiency and reliability desired.

In all cases, Republic Services will identify the correct equipment to service multi-family complexes based on individual location and unique characteristics. Republic Services can provide 2-, 4-, 6- or 8-yard capacity solid waste dumpsters or 20-, 30- or 40-yard capacity open-top roll-offs or industrial compactors if the complex requests containerized service.

MSW collection issues such as narrow streets, traffic blockages, and alleyways may require the use of a rear-load vehicle or alternative service options. In all cases, the servicing drivers are familiar with these areas. They are trained to ensure personal safety, property protection, and awareness of traffic stops distance to parked cars and other objects.

*Figure 24. **Multi-Family Cart and Dumpster Options**. Solutions for Multi-Family Complexes include carts and dumpsters, front-load, or roll-off.*



Personalized multi-family solutions to meet your needs

- Industry-leading service and customized waste solutions ensure Republic Services will exceed your community's expectations
- The latest single stream recycling technology paired with ongoing education makes certain your community is receiving best-in-class service
- There are approximately 35M multi-family units across the US, and growing

Multi-Family Recycle Collection

Republic Services will offer weekly single-stream recycling services as part of its core services for all multi-family customers. Cart options include 64- or 96-gallon capacity.

The same equipment and methodology used in single-family cart collection will be implemented when servicing multi-family recycling customers. Multi-family recycling front-load dumpster customers will be serviced using the same methodology as multi-family trash front-load dumpster customers and integrated into commercial routes.

Severe Weather Plan

When the State of Florida implements a State of Emergency for Florida, Republic Services will stop all collection services for the City of North Lauderdale. After the Storm, with the city's approval, Republic will assist the disaster debris contractor if needed to clean up the city. As soon as the roads are clear, Republic will resume collection services for MSW than Recycle.

Implementation Plan

We have successfully implemented new or emerging services into our 2,400 municipalities nationwide. Our team takes pride in our ability to implement new services without service impacts.

Our Approach

Your transition will take into consideration the unique needs of the contract and North Lauderdale. The key to success, regardless of project details, relies on communication plans to include:

- We start with a plan crafted in collaboration with North Lauderdale. This plan includes milestones, roles/responsibilities, and contact information, and a timeline for execution.
- Frequent, proactive communication with the North Lauderdale to ensure no surprises along the way.
- Weekly in-person meetings and phone calls/emails as the situation requires. Our philosophy is that sharing good news and bad news gives everyone a chance to prepare and respond in a timely and calm fashion.
- Data sharing and field coordination with a current contractor ensure all open requests are met, and service information is accurate.
- Monitoring of open service notes is critical, especially when the transition date nears. Republic Services will work with North Lauderdale to address any outstanding concerns before the implementation of new services. Our operations teams, customer service professionals, and data partners understand the need to keep a close eye on open service notes.
- Dumpster removal and delivery also require careful coordination with field crews. Customers need same-day service from both providers, and our local teams work with the current hauler to streamline this function.

Decades of experience partnering with municipalities to implement new programs in the community

- 92% track record of successful extension or retention of existing partner contracts
- Frequent and transparent dialogue with the municipality
- All details and plans reviewed
- National strength, with local experts

- Timely and appropriate communication with residents and businesses—from events and mailings to website information and direct communication (phone, email, live chat, etc.). Redundant communications through a variety of channels are paramount to success.
- Daily communication with the internal team to assess project status.
- Our operations management will meet with our supervisors and maintenance crews daily to ensure critical-path items are addressed.
- The education team meets with the transition lead (operations manager), customer service manager, and general manager to ensure customer-specific aspects of the rigorous training for customer service staff and drivers.

- Contract-specific information, route development, and truck test drives will be used to bring a safe and well-informed team to North Lauderdale.
- Regular communication with vendors supplying carts and dumpsters, printed material, trucks, and on-board computing systems.

Republic Services brings relationships and experience to North Lauderdale. We have extensive expertise in implementing collection programs. Republic Services has the national strength and the local experts to get the job done using our network of federal and local suppliers from purchasing to operations to communications.

If awarded the franchise agreement, Republic will provide a detailed transition/implementation plan for approval from the City.

*Figure 25. **Open Communications**. Republic Services communicates with residents and businesses regarding services changes.*



Implementation Sample Timeline

PROJECT NAME:	City of North Lauderdale	Status Key
REPORT DATE:	Sample	R Off track, progress in jeopardy
OVERALL PROJECT STATUS (G, Y, R, C):	G	Y Off track, mitigation strategy /action plan in place
PROJECT Goal	Transition Plan City of North Lauderdale	G On Track
		C Complete

Sample Transition Plan City of North Lauderdale

Action Plan Snapshot

Mile-stone #	Description	Target Start Date	Target Completion Date	Owner	Estimated/ Actual Date	% Complete	Status	Notes
1	Implementation Overview			Jean-Pierre Turgot				
1.1	Contract executed	6/1/2021	6/15/2021				G	
1.2	Transition kick off meeting with City staff and Republic Services	6/15/2021	6/15/2021				G	
1.3	Weekly meetings with City staff	On going	On going				G	
1.4	Detailed Implementation Plan due to City of Margate	8/15/2021	9/1/2021				G	
1.5	Contract start date	1/1/2022	1/1/2022				G	
2	Equipment and Procurement			Tim Martin				
2.1	Order new collection vehicles	6/15/2021	6/15/2021				G	
2.2	Identifiyed new diverted equipment for Margate	7/1/2021	7/15/2021				G	
2.3	Review vehicle specs with vendor	7/1/2021	7/15/2021				G	
2.4	RFP for rental equipment	6/20/2021	7/1/2021				G	
2.5	Receive and inspect new collection vehicles and rental trucks including: licensed, registered, insured and tagged	12/1/2021	12/10/2021				G	
2.6	Place rentals and new trucks into service	12/15/2021	12/31/2021				G	
2.7	Order carts for multiple container residents	8/1/2021	8/15/2021				G	
3	Collection Services			Muriel Attilus				
3.1	Complete residential route maps for city approval	9/15/2021	10/1/2021				G	
3.2	Conduct audits and route surveys (Commercial & Multi-family)	10/1/2021	10/30/2021				G	
3.3	Obtain gate codes	11/15/2021	12/1/2021				G	
4	Cart and Container Delivery			Muriel Attilus				
4.1	Coordinate schedule with existing contractor commercial containers(If applicable)	10/1/2021	10/30/2021				G	
5	Employees			Muriel Attilus				
5.1	Initial hiring steps	9/15/2021	9/30/2021				G	
5.2	Confirm all new hires	11/1/2021	11/15/2021				G	
5.4	Saety and onboarding training	12/1/2021	12/15/2021				G	
5.5	Behind the wheel instruction training	12/15/2021	12/31/2021				G	
5.6	Route familiarity	12/15/2021	12/31/2021				G	
6	Customer Resource Center			Joanne Stanley				
6.1	Initial meeting with CRC staff	10/0/2021	10/15/2021				G	
6.2	Provide Knowledge Management Tools (KMT)	9/15/2021	9/30/2021				G	
	Train CRC represnetatives on Margate specifics	12/1/2021	12/15/2021				G	
6.4	Customer Service Begins	1/1/2022	1/1/2022				G	
7	Customer Notification			Joanne Stanley				
7.1	Media release to introduce Republic Services and FAQ	12/1/2021	12/15/2021				G	
7.2	Contact Commercial and Industrial customers to confim size and frequency	11/1/2021	11/30/2021				G	
7.3	Draft informational brochure to the City	10/1/2021	10/30/2021				G	
7.6	Draft service days and set out procedures post card	11/15/2021	11/30/2021				G	

ccomplishments Since Last Report

FUpcoming Major Activities

Constraints & Risks

Mile-stone #	Description	Owner	Priority	Due Date	Status

Customer Service

We have redefined the Best Practices in Customer Service coverage and user experiences through our response to the 2020 pandemic.

Redefining Customer Service

Over the past 3 years, Republic Services has redefined the way we deliver superior customer service. Following a 2017 commitment to shift from hundreds of distributed, nonintegrated call centers to a national technology platform, the insights and experiences literally informed and shaped our thinking. Additionally, these investments and insights enabled us to lead the industry in our rapid response to the 2020 pandemic, when we shifted over 1800 agents to a work-from-home posture in three days and never dropped a call.

Knowing Our Customers

Creating the optimal customer service offering starts with studying and understanding our customers about how and when they want to contact us for help.

We provide an exceptional customer experience when your residents or businesses contact us for assistance

- Leverage technology and data to enable virtual agents to serve customers from any location seamlessly
- Over 1M customers expertly served each month via text, web, email, or phone
- Hours are when customers demand highest – Monday through Friday from 7:30 a.m. – 5:00p.m. for each time zone
- Web-based applications offering 24/7 access for customers on their own time
- Net Promoter Score has improved year-over-year for 5 consecutive years

Optimal Call Center Hours

During 12 months in 2019, we collected and tracked every call made to our staffed call centers across America. Over 12.7M calls were received during that timeframe when our call centers were open from M-F (7 am to 6 pm) and Saturday (8 am-1 pm).

*Figure 26. **Comprehensive Customer Service**. Our customer service offering spans self-service options to person-to-person contact to offer unmatched service, 24/7 daily.*

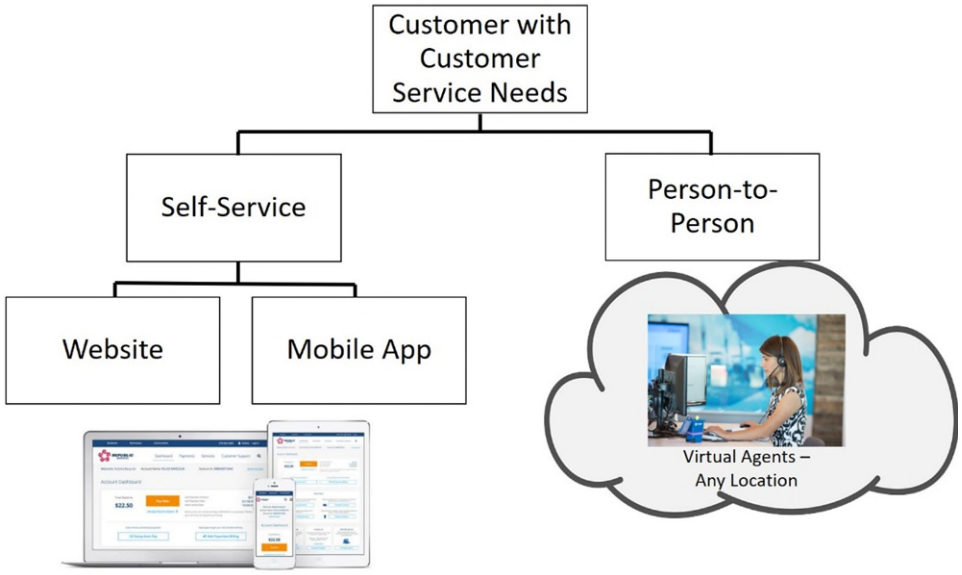
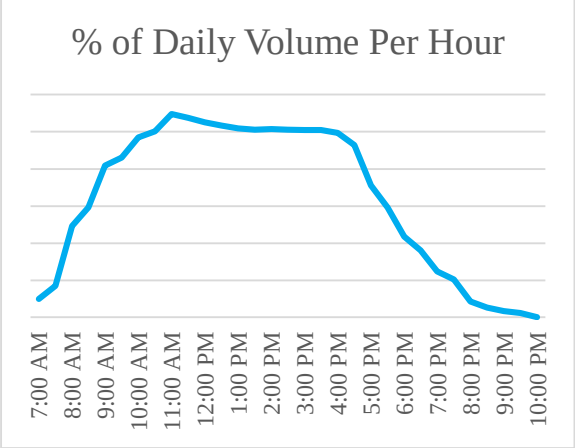


*Figure 27. **Optimal Call Center Hours**. Analysis of over 12M calls in 12 months shows 90%+ of all calls occur M-F between 7:30 am and 5:00 pm*



When analyzing the data, we learned that less than 1.5% of daily calls were received from 7 am to 8 am, and less than 1% of daily calls were received after 5 pm daily. We further learned that less than 2% of the weekly call volume occurred on Saturday. Through the data, the customers were telling us that they were busy during those times and that it was not necessary for the call centers to be running fully staffed for such a small percentage of the total call volume.

This insight lets us define the best practice for call center hours to be M-F from 7:30 am to 5:00 pm.

Customer Self-Service

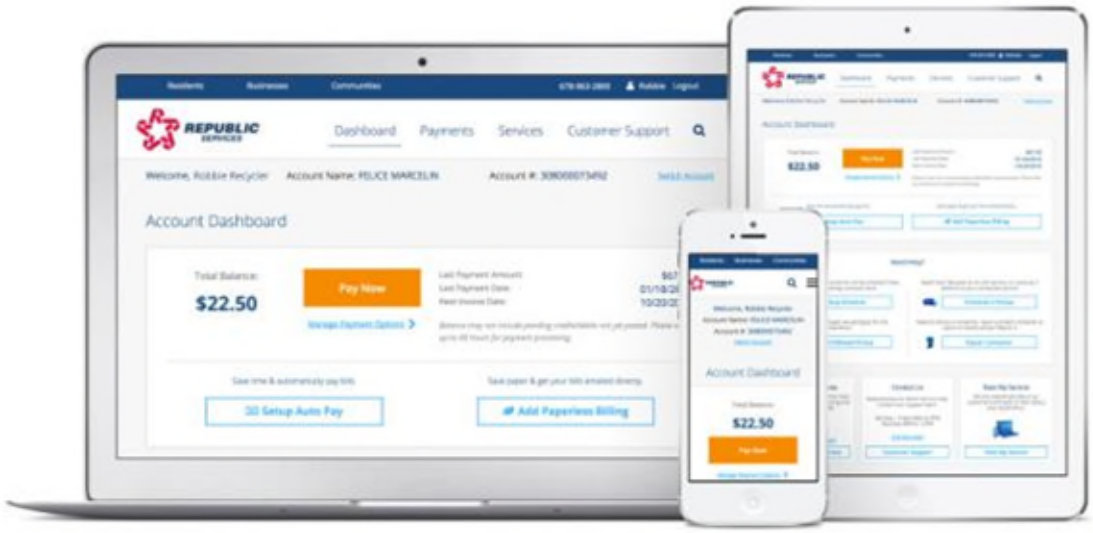
Modern-day customer service is about customer options and simple solutions. Newer generations expect web-based and mobile app-based abilities to self-serve simple needs at any time of the day or night. Indeed, more complex topics may still require a person-to-person interaction. Still, a vast majority of customer service contacts in this industry are topics that can be self-served.

For this reason, Republic Services has invested in creating a complete Service offering that allows customers to request service on their terms.

Our customers now have the ability to reach us 24/7 via our website, *www.RepublicServices.com*, or via our Republic Services mobile app.

Our self-service options are designed to improve overall response time, enabling

*Figure 28. **Web and Mobile App-Based Simple Solutions**. Customers are able to self-serve billing and common requests 24/7 using our web and mobile app offering.*



resolution to simple customer inquiries and needs anytime, anywhere with the least amount of customer inconvenience possible. Through our website and mobile app, customers can:

- Pay their bill
- Schedule an extra pick up
- Discover new services
- Receive weather and holiday service updates
- Sign up for auto-pay and paperless billing
- Submit inquiries or complaints

Access to Live Agents, Virtually

When the pandemic of 2020 hit, we learned some powerful lessons regarding optimal customer service models. We had invested to consolidate our agents into three national call centers for years prior, leveraging technology and training to offer a superior experience to callers. However, in February 2020, as the nation implemented shelter-in-place orders and moved to work-from-home, we leveraged our years of investment in our customer service technology systems to shift all our call center agents to work-from-home in three days. Over 1800 agents began taking calls from home, entirely seamless for the customers who were calling. We found performance improved throughout the months-long pandemic, average call metrics improved, and customer satisfaction scores also improved. A new customer service model had been created and proven in the pandemic, whereby agents could take calls from anywhere, so long as they had access to their technology.

Leveraging this new proven reality, we now recognize that a vast majority of customer calls are for simple items like clarification or cart repairs. Virtual agents can serve from any location. This paradigm shift enables far greater staffing with greater flexibility to attracting top talent from across the country and flexible response to call volume surges.

When a customer calls our Customer Service line, a sophisticated series of actions begin:

- Initial questions for the customer help determine the complexity of the request. Simple requests are routed for virtual agents that can handle calls from anywhere in the country from their own home if needed. More complex needs can be routed to more specialized agents with knowledge of geography and operations if appropriate.
- The customer's phone number then associates with known customer details in our database. It triggers the integrated system to populate with a map of your service address, level of service, past service requests, and city-specific contract information. This knowledge-based system even shows the customer's current weather.
- The agent confirms the customer's name and service address and begins to assist the customer with the reason for their call.
- Suppose the question requires communication with the local operations team (such as, missed pick-up or container exchange). In that case, the agent can instantly connect with the local operations team through our national network.
- Often, the customer's concern is handled by the time s/he hangs up the phone. For those issues requiring operations support, the issue will be addressed in a most timely manner**.**
- Customers have the option to leave a recorded message or speak to a Supervisor if they choose

Post-Call Customer Satisfaction Surveys

When a customer call is completed, the caller is offered the opportunity to take an optional 3-question survey, enabling them to tell us if they are satisfied with the service we have provided. This immediate

insight tells us daily that we are on track and enables us to take corrective action quickly if ever needed.

The survey is voluntary, and if customers choose to participate, they are asked 3 simple questions.

- **Question 1 NPS**: On a scale of 0-10, How likely would you be to recommend Republic Services to a friend or colleague? 0 meaning that you are 'Not at all Likely' and 10 meaning you are 'Extremely Likely' to recommend Republic Services as a recycling and waste provider.
- **Question 2 FCR**: Were we able to resolve your issue or answer your question on this call?
  - a. Press 1 if yes
  - b. Press 2 if the agent could not personally resolve your issue but told you what to expect next.
  - c. Press 3 if the agent did not resolve your issue and did not tell you what would happen next.
- **Question 3 E v. E**: Once you reached an agent, how long did your call with Republic last? Did it take:
  - a. Press 1 if less time than you expected,
  - b. Press 2 if about as much time as you expected, or
  - c. Press 3 if more time than you expected

Our 2020 results are offering in the figure below, indicating NPS with a 9.2 out of 10 satisfaction; 97.8% of callers feeling we achieved First Call resolution and 95.1% feeling we handled their needs in a reasonable time.

Net Promoter Score

Our Voice of Customer program captures feedback from more than 200,000 customers each year. Net Promoter Score (NPS) is at the core of our Voice of Customer program. Most anyone can recall answering the tell-tale NPS question, "On a scale of 1-10, how likely are you to recommend this service to a friend or family member?" Republic Services' strong NPS performance has demonstrated that our

*Figure 29. **Immediate Customer Feedback**. Customers can answer a three-question survey after each call, offering us immediate insight into customer satisfaction.*



customers appreciate our service and our strong commitment to them.

OneFleet

The OneFleet management system enhances the quality of service, maintains a reliable fleet, and ultimately improves customer experience at the curb.

Republic Services is dedicated to operating the best running, safest, and most environmentally friendly vehicles in the industry. This goal is achieved through a coordinated vehicular operation maintenance system called OneFleet.

With standardized procedures and consistent execution, the OneFleet system improves safety for the fleet, decreases repair downtime, and improves customer satisfaction.

Preventive Maintenance

Preventive Maintenance (PM) is the hallmark of One Fleet. Republic Services prescribes six levels of PM activity at varying truck hour markers.

1. Every 150 hours - full inspection, including nuts/bolts/fluids/no cracks
2. Every 450 hours – 1, plus full lubrication service
3. Every 1,350 hours - transmission, front suspension, air-to-air, hydraulics, CNG inspection
4. Every 2,700 hours – 1- 3, plus drain transmission, new filters, and fluids; crank ventilation filters; exhaust system inspection/service, cleaning, catalyst inspection/service
5. Every 5,400 hours – 1-4, plus differential fluids, DPF system, overhead-valve adjustment, fuel systems inspection/service
6. Every Year – Annual Federal Safety Inspection

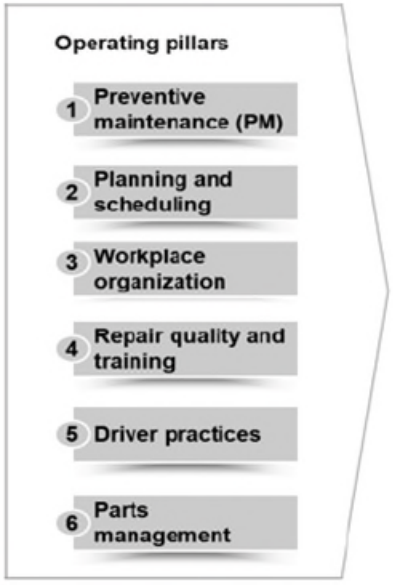
Planning and Scheduling

Our OneFleet system leads the industry in creating a safer, more reliable fleet - both operationally and environmentally

- A scheduled preventive maintenance program enables us to offer a superior fleet traveling on your roads
- Regular preventive maintenance contributes to our 99.9% reliability rate and 39% safer than the industry average
- OneFleet allows us to keep costs low and efficiency high, which ultimately benefits the communities we serve

Standardized planning and scheduling leads to increased shop capacity and reduced fleet downtime. Planning preventive repairs also make certain that parts are on hand and technicians are scheduled accordingly. This also keeps the shop proactive and prepared and provides the benefit of prioritizing repairs and keeping the fleet ready at route time.

*Figure 30. **OneFleet.** Our preventive maintenance system contains Six pillars.*



Workplace Organization

A clean and organized workplace makes for a safer and more efficient environment. At Republic Services, we abide by the Five S's:

- Sort
- Straighten
- Sanitize
- Standardize
- Sustain

Training

The Republic Services OneFleet initiative is built on the foundation of an educated work force. Ongoing tech training, on-the-job projects, as well as formal classroom clinics, are all part of the "Republic Services Way."

Drivers Practice

Joint accountability and proper communication between maintenance crews and operations personnel (drivers and supervisors) fosters fewer unscheduled repairs and breakdowns. Each day, drivers:

- Perform a pre/post-trip driver quality control inspection
- Ensure that any issues they identify are accurately communicated to the shop
- Ensure that customer & route expectations are understood in the mornings

Parts Management

The right part at the right time is critical to maintaining a fleet. With proper inventory management, parts are on hand for all scheduled repairs. That decreases truck and labor down time and reduces overall costs for the customer. Integral to the parts maintenance program is a maintenance bay. The floors and shelves are kept clean and orderly. With proper scheduling, parts are also staged on dumpsters in advance of a technician's arrival.

*Figure 31. **Our highly-specialized technicians** deliver a best–in-class fleet for your municipality.*



The real benefit of OneFleet is the positive impact to the customers. Republic Services drivers begin each day with a safe and reliable fleet. A reliable fleet allows the frontline employees to focus outwards and onto the MSW and recycling needs of the community.

*Figure 32. **Parts Management** is a key component of our successful OneFleet program.*



Vehicle Inspection Reports

The key to the preventive maintenance program is daily completion of vehicle inspection reports. This is done by the collection vehicle's assigned CDL driver and includes both a pre-trip inspection and post-trip inspection. Drivers check fluid levels, lights, tires and other safety related areas of their truck and indicate on the inspection report any defects or deficiencies found that day. Shop personnel review the report and check any items marked by the driver as being questionable or problematic. Technicians then make any needed repairs before the vehicle returns to the route.

Furthermore, each vehicle undergoes a through and comprehensive preventative maintenance inspection (PMI) every 150 hours of service. This inspection is conducted by a trained and certified brake inspector, according to USDOT requirements.

Vehicle Appearance

It is a fact that vehicles that are clean in appearance are usually well-maintained as well. Republic Services washes its collection vehicles weekly, utilizing biodegradable cleansing products, high- and low-pressure washers using a brush.

*Figure 33. **Clean, well maintained trucks**. Our well-maintained fleet is a direct reflection of your municipality.*



VI. Previous Experience

REPUBLIC SERVICES

IV f. Republic Services list of contracts in the tri county area for the last five years.

Palm Beach County	Revenue	$13,856,000.00	Start Date:	10/1/2013	Expiration Date:	9/30/2019	
Number of Homes Serviced:	55,106	Garbage Tons/Year:	54,445	Recycle Tons/Year:	12,178		
Main Contact:	John Archambo - Director of Solid Waste		jarchambo@swa.org	Phone No.:	561-697-2700 Ext. 4725		
Address:	7501 N. Jog Road	City:	West Palm Beach	St:	FL	Zip:	33412

Services are provided with Rear Load Trucks within Service Area 3 of the County's program. Commercial and Industrial collection services are also included in the exclusive franchise. Services are provided six days per week. Republic has serviced the County for over 40 years. Daniel Baker - Operations manager, Joanne Stanley Manager, Municipal Sales 70 employees and two supervisors

Village of Royal Palm Beach	Revenue	$3,266,011.00	Start Date:	10/1/2007	Expiration Date:	11/1/2019	
Number of Homes Serviced:	9,379	Garbage Tons/Year:	9,266	Recycle Tons/Year:	2,073		
Main Contact:	Raymond Liggins - Village Manager		rliggins@royalpalm.com	Phone No.:	(561) 790-5100		
Address:	1050 Royal Palm Beach Blvd.	City:	Royal Palm Breach	St:	FL	Zip:	33411

Services are provided with Automated Side Load Trucks. An additional 3,147 units are serviced at multi-family complexes. Commercial and Industrial services are provided to businesses through an open competitive market. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 9 employees and 1 supervisor

City of Sunrise	Revenue	$7,521,321.00	Start Date:	7/1/1996	Expiration Date:	9/30/2024	
Number of Homes Serviced:	19,268	Garbage Tons/Year:	19,037	Recycle Tons/Year:	4,258		
Main Contact:	Harry Cruz - Utility Finance Manager		hcurz@sunrise.gov	Phone No.:	(954) 746-3233		
Address:	10770 W. Oakland Park Blvd	City:	Sunrise	St:	FL	Zip:	33351

Services are provided with Rear Load Trucks. An additional 19,132 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided seven days per week. Republic has serviced the City for 40 years. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 25 employees and 2 Supervisors

Village of Palm Springs	Revenue	$3,109,000.00	Start Date:	4/1/2008	Expiration Date:	11/1/2019
Number of Homes Serviced:	5,808	Garbage Tons/Year:	5,738	Recycle Tons/Year:	1,284	
Main Contact:	Richard Reade - Village Manager	rreade@vpsfl.org	Phone No.:	(561) 365-4010		
Address:	226 Cypress Ln.	City:	Palm Springs	St:	FL	Zip: 33461
Services are provided with Automated Side Load Trucks. An additional 3,636 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales. 6 employees and 1 supervisor						

City of Coconut Creek	Revenue	$5,179,226.00	Start Date:	2/1/1995	Expiration Date:	9/30/2017
Number of Homes Serviced:	9,241	Garbage Tons/Year:	9,130	Recycle Tons/Year:	2,042	
Main Contact:	Alex Tergis	Atergis@coconutcreek.net	Phone No.:	(954) 746-3233		
Address:	4800 West Copans Road	City:	Coconut Creek	St:	FL	Zip: 33064
Services are provided with Automated Side Load Trucks. An additional 11,059 units are serviced at multi-family complexes. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 6 employees and 1 supervisor. Also a subcontractor for bulk						

City of Fort Lauderdale	Revenue	$6,620,376.00	Start Date:	7/31/2019	Expiration Date:	7/30/2023
Number of Homes Serviced:	37,996	Garbage Tons/Year:	59,748	Recycle Tons/Year:	0	
Main Contact:	Melissa Doyle- Environmental Manager	mdoyle@fortlauderdale.gov	Phone No.:	954-828-4357		
Address:	100 North Andrews Avenue	City:	Fort Lauderdale	St:	FL	Zip: 33305
Curbside solid waste and yard waste collection services are provided with Automated Side Load Trucks. Yard waste is 13,694 tons per year. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales. 24 employees and 3 supervisors						

City of Weston	Revenue	$8,151,717.00	Start Date:	10/1/2012	Expiration Date:	3/31/2019
Number of Homes Serviced:	17,588	Garbage Tons/Year:	17,377	Recycle Tons/Year:	3,887	
Main Contact:	Karl Thompson - Public Works Director	kthompson@westonfl.org	Phone No.:	(954) 746-3233		
Address:	2599 S. Post Rd.	City:	Weston	St:	FL	Zip: 33332
Services are provided with Automated Side Load Trucks. Commercial and Industrial services are included in the exclusive franchise. Services are provided six days per week. Muriel Attilus- Operations Manager, Joanne Manager of Municipal Sales 17 employees and 1 supervisor						

Town of Lantana	Revenue	$999,618.00	Start Date:	6/1/2013	Expiration Date:	3/31/2019	
Number of Homes Serviced:	3,120	Garbage Tons/Year:	3,083	Recycle Tons/Year:	690		
Main Contact:	Debbie Manzo		dmanzo@lantana.org	Phone No.:	(561) 540-5000		
Address:	225 Greynolds Cir.	City:	Lantana	St:	FL	Zip:	33462
Services are provided with Rear Load Trucks. An additional 1,889 units are serviced at multi-family complexes. Commercial and Industrial services are provided to businesses through an open competitive market. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 6 employees and 1 supervisor							

Town of Ocean Ridge	Revenue	$242,512.00	Start Date:	10/1/2009	Expiration Date:	9/30/2019	
Number of Homes Serviced:	1,528	Garbage Tons/Year:	1,510	Recycle Tons/Year:	338		
Main Contact:	Tracey Stevens- Town Manager		tstevens@oceanridgeflorida.com	Phone No.:	(561) 732-2635		
Address:	6450 N. Ocean Blvd	City:	Ocean Ridge	St:	FL	Zip:	33435
Services are provided with Rear Load Trucks for Solid waste, recycling, bulk and yard waste. Daniel Baker -Operations manager, Joanne Stanley Manager, Municipal Sales 3 employees							

Republic Services has had many smooth transitions between us and other haulers within the State of Florida. We would identify: a detailed timeline, constant communication and transparency as key items (major lessons) we have observed through our recent start-ups that have proven imperative to a successful implementation and partnership.

VII. Business Equipment and Operations

Residential Collection Equipment

Republic Services will use Compress Natural Gas trucks to service the residents and businesses in North Lauderdale.

Figure 35. Automated Side Loader



Figure 34 Residential Automated Side Load Equipment

Vehicle Type	Chassis	Body Type	Year	Fuel	Capacity
4 Automated Side Load	Mack	Leu633 X5	2022	CNG.	28 yards
1 Rear loader	Mack	Heil	2022	CNG	28 yards

Republic Services will be ordering new vehicles for this agreement and anticipate receiving them in Q2 of 2022. We will start the contract with rental equipment until the trucks arrive.

Figure 36 Carts



EWS will provide 2 or 3 Grapple Truck depending on which option the city decides.

Mack GRU 533 Knuckle Grapple with dump Body 30 yards

Residential Carts

Specifications

The spec below is for replacement carts and new customers within the city limits.

Figure 37 Residential Carts

Manufacturer	Size	Dimension
Schafer	95 gallon	44.3X41.6X 27.6
Schafer	65 gallon	41.5X39.1X 34.2

Commercial Collection Equipment

Republic Services will be ordering new vehicles for this agreement and anticipate receiving them in Q2 of 2022. We will start the contract with rental equipment until the truck arrive

Figure 38. Front Load Truck



Figure 39 ***Commercial Collection Equipment***

Vehicle Type	Chassis	Body Type	Year	Fuel	Capacity
1- Front Loader	Mack	MRU633 X!	2022	CNG	28 yards

Dumpster Dimension Guide

The purchase is about 6 weeks, and delivery should take two to three weeks.

Figure 40. The right dumpster for the application.

Dumpster – Slant-top & dumpster – Upright



Multi-Family Collection Equipment

Depending on the type of services, the multifamily may use different equipment to service these communities.

Figure 42 Front Loader



Figure 41. ***Multi-Family Collection Equipment***

Vehicle Type	Chassis	Body Type	Year	Fuel	Capacity
Front Loader	Mack	MRU633 X1	2022	CNG.	28 yards
Roll Off	Mack	Galbreath	2022	CNG	60 K
Automated side loader	Mack	LEU633 X5	2022	CNG	28 yards

Residential Cart & Dumpster Specifications

The purchase is about 6 weeks, and delivery should take two to three weeks.

Figure 43. Various service options



Industrial Collection Equipment

The roll-off fleet is comprised of three-axle collection vehicles with rail and hydraulic hoist systems. These vehicles are extremely durable, and each can service all open-top roll-off sizes while maintaining maneuverability in tight locations and varying terrain.

Republic Services will be ordering new vehicles for this agreement and anticipate receiving them in Q2 of 2022. We will start the contract with rental equipment until the truck arrived

Figure 44. Roll- Off Truck



Figure 45 ***Industrial Collection Equipment***

Vehicle Type	Chassis	Body Type	Year	Fuel Type	Capacity
1 Industrial Roll Off	Mack	Galbreath	2022	CNG	60K

Industrial Roll-Offs

Open-top roll-offs are built to last with heavy gauge steel floors, sides, and pockets along with fully welded in-seams and are designed for compatibility with our fleet. A rust-inhibiting primer inside and out improves durability. Roll-offs meet all applicable ANSI safety standards.

The roll-offs vary in size from 10 to 40 cubic yards. The average life span of these is typically 10 or more years.

Figure 46 ***Industrial Open-Top Roll-Offs.***



Roll-Off Dumpster Dimension Guide

Figure 47. Right roll-off for the application

Roll-Off Dumpster - Boxes



10-Yard	15-Yard	20-Yard	30-Yard	40-Yard
12’8”L x 8’3”W x 4’4”H	15’L x 7’8”W x 4’4”H	22’9”L x 8’3”W x 4’4”H	23’1”L x 8’W x 6’1”H	23’1”L x 8’3”W x 7’9”H

Roll-Off Dumpster - Tubs



10-Yard	20-Yard	30-Yard	40-Yard
12’8”L x 8’3”W x 4’8”H	18’8”L x 8’3”W x 5’8”H	22’8”L x 8’3”W x 6’8”H	22’8”L x 8’3”W x 8’5”H

Camera-Based Technology

samsara

SAMSARA

1. **Key Features Safety Dual facing Camera**
    a. Embedded artificial intelligence
    b. Wide angle lens dual facing camera
        i. Front Facing Camera – field view of 121 degrees, 1080p resolution, 30 frames per second, low light HDR to optimize for bright and low-light conditions
        ii. Driver Facing Camera- field view of 177 degrees, 720p resolution, 30 frames per second, low light Infrared LED for unlit nighttime in-cab video
    c. Built-in audio speaker
        i. Voice coaching
        ii. Audio capture
    d. Recordings
        i. Harsh event recording
        ii. Periodic images- still images captured every few minutes while vehicle is in motion
        iii. Panic button-allows drivers to automatically send alerts and upload footage during emergencies
    e. Data transfer and logging
        i. On-demand upload
        ii. Automatically uploads videos to cloud
    f. Mounting and power
        i. Plug and play installation
2. **Key Features Vehicle Gateway Telematics Data**
    a. GPS Tracking
    b. Engine diagnostics
    c. Fuel efficiency
    d. Driver productivity
    e. 4G LTE cellular connectivity
3. **Real-time AI Detection**
    a. In-Cab Audio Alerting
        i. Distracted Driving
        ii. Following Distance
        iii. Forward Collision Warning
        iv. Harsh Brake
        v. Harsh Acceleration
    b. Additional Driver behavior events
        i. Harsh turn
        ii. Rolling Stops

4. **Web Application/Portal Environment**
    a. Overview

samsara

i. Map overview
ii. Asset tracking-last location, status, fuel level, location
iii. Drivers-name, driving status, vehicle, location
iv. Proximity
1. Search for assets near an address from 100-500 meters up to 90 days back

b. Safety
i. Safety dashboard-safety score, risk factors, performance by driver or vehicle
ii. Safety inbox-all clips from harsh events
iii. Coaching-list of videos assigned to coaches to view
iv. Dash cam-visual view of all driver facing and road facing cameras
v. Video retrieval-pull video footage up to 30 days back from any truck that is on. 1 min full footage, 5-40 min hyper lapse
vi. Driver assignment-matching driver faces to names for AI learning

c. Compliance
i. Compliance dashboard-HOS violations

d. Maintenance
i. Maintenance status-asset and listed faults, engine hours, odometer, check engine light, battery voltage

e. Fuel and Energy
i. Efficiency benchmarks- vehicle, efficiency, fuel used, distance, carbon emissions, cost, engine run time, PTO use, idle time
ii. Driver efficiency report

f. Reports
i. Asset reports, activity reports, safety reports

5. Installation

a. Dual-facing camera
i. Connects to Samsara's VG-series gateways via accessory port for power and connectivity
ii. Mounts on inside of windshield with heavy-duty acrylic foam tape

b. Vehicle gateway
i. Diagnostic interface
1. J1962/OBD-II
2. J1939 (type 1 and 2)
3. J1708 (non-diagnostic, power only)
ii. Auxiliary inputs
1. 2 × digital inputs monitor specialized equipment
2. 1 × digital output, reserved for future use via software update

6. Additional Information

a. https://www.samsara.com/products/models/cm32
b. https://www.samsara.com/products/models/vg34

VIII. Financial Capability

Republic Services is among the leading recycling and waste services companies in the United States, with the financial strength and stability to exceed North Lauderdale's expectations for the duration of the contract and beyond.

Financial Overview

Republic Services' financial stability allows us to guarantee our commitments and obligations presented to North Lauderdale in our proposal. We have the capacity to continually invest in equipment and preventive maintenance, as evidenced by having one of the youngest fleets in the industry.

Republic Services does not use third-party financing, meaning Republic Services owns all assets used to perform the duties of this agreement. North Lauderdale will not need to be concerned with the potential for adverse business or performance conditions affecting the ability of our company to perform or obtain financing.

We implore North Lauderdale to take financial stability into serious consideration when choosing a long-term partner for your recycling and waste needs. In many instances, a service provider's success depends on their ability to invest in necessary equipment or personnel.

Financial Reporting

Republic Services, Inc. provides audited financial statements on behalf of its subsidiaries. Republic Services, Inc. is a publicly traded (NYSE: RSG) Fortune 300 Company and will be the signatory for the corporate guarantee.

Ours most recently completed audited financial statements can be found on our website at RepublicServices.com

The Annual Reports to Shareholders have been prepared in accordance with Securities and Exchange Commission requirements, with New York Stock Exchange Commission requirements, and following generally accepted accounting principles (GAAP).

The financial strength you need in a long-term partner for your municipality

- Financial capacity to continually invest in equipment and preventive maintenance
- One of the youngest fleets in the industry
- Reinvesting in state-of-the-art equipment and facilities
- Republic Services contributes more than $5 million to charities annually

Bankruptcy Proceeding

Republic Services does not have any pending or treats of bankruptcy proceedings.

*Figure 48 **Excellence Driven**. Republic Services takes pride in being excellence-driven, including continuous investment in new vehicles, carts, dumpsters, and technologies.*



Summary Financial Information – Income Statement

Figure 49. ***Republic Services' 2020 Year Ending Consolidated Income Statement.***
Selected financial data. These historical results are not necessarily indicative of the results to be expected in the future. Amounts are in millions, except per share data. The financial statements contained in the Annual Report were audited by Ernst & Young, LLP (Independent Registered Public Accountants).

REPUBLIC SERVICES, INC.
CONSOLIDATED STATEMENTS OF INCOME
(in millions, except per share data)

	Years Ended December 31,		
	2020	2019	2018
Revenue	$ 10,153.6	$ 10,299.4	$ 10,040.9
Expenses:			
Cost of operations	6,100.5	6,298.4	6,150.0
Depreciation, amortization and depletion	1,075.9	1,040.5	1,033.4
Accretion	82.9	81.9	80.7
Selling, general and administrative	1,053.0	1,091.9	1,059.5
Withdrawal costs – multiemployer pension funds	34.5	-	-
Loss (gain) on business divestitures and impairments, net	77.7	(14.7)	(44.9)
Restructuring charges	20.0	14.2	26.4
Operating income	1,709.1	1,787.2	1,735.8
Interest expense	(355.6)	(392.0)	(383.8)
Loss from unconsolidated equity method investments	(118.2)	(112.2)	(35.8)
Loss on extinguishment of debt	(101.9)	-	(0.3)
Interest income	5.2	6.4	1.6
Other income, net	4.1	6.4	3.4
Income before income taxes	1,142.7	1,295.8	1,320.9
Provision for income taxes	173.1	222.0	283.3
Net income	969.6	1,073.8	1,037.6
Net income attributable to non-controlling interests in consolidated subsidiary	(2.4)	(0.5)	(0.7)
Net income attributable to Republic Services, Inc.	$ 967.2	$ 1,073.3	$ 1,036.9
Basic earnings per share attributable to Republic Services, Inc. stockholders:			
Basic earnings per share	$ 3.03	$ 3.34	$ 3.17
Weighted average common shares outstanding	319.3	321.1	326.9
Diluted earnings per share attributable to Republic Services, Inc. stockholders:			
Diluted earnings per share	$ 3.02	$ 3.33	$ 3.16
Weighted average common and common equivalent shares outstanding	319.8	322.0	328.4
Cash dividends per common share	$ 1.66	$ 1.56	$ 1.44

Summary Financial Information – Balance Sheet

Figure 50. ***Republic Services' 2020 Year Ending Consolidated Balance Sheet.*** *Selected financial data.*

REPUBLIC SERVICES, INC.
CONSOLIDATED BALANCE SHEETS
(in millions, except per share data)

	December 31, 2020	December 31, 2019
ASSETS		
Current assets:		
Cash and cash equivalents	$ 38.2	$ 47.1
Accounts receivable, less allowance for doubtful accounts and other of $34.7 and $34.0, respectively	1,091.3	1,125.9
Prepaid expenses and other current assets	392.3	433.0
Total current assets	1,521.8	1,606.0
Restricted cash and marketable securities	149.1	179.4
Property and equipment, net	8,726.2	8,383.5
Goodwill	12,046.4	11,633.4
Other intangible assets, net	173.1	133.9
Other assets	817.4	747.6
Total assets	$ 23,434.0	$ 22,683.8
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	$ 779.0	$ 777.9
Notes payable and current maturities of long-term debt	168.1	929.9
Deferred revenue	345.6	336.0
Accrued landfill and environmental costs, current portion	114.5	132.6
Accrued interest	54.6	74.0
Other accrued liabilities	820.2	814.2
Total current liabilities	2,282.0	3,064.6
Long-term debt, net of current maturities	8,766.1	7,758.6
Accrued landfill and environmental costs, net of current portion	1,694.7	1,703.2
Deferred income taxes and other long-term tax liabilities, net	1,238.8	1,180.6
Insurance reserves, net of current portion	281.8	276.5
Other long-term liabilities	681.8	579.4
Commitments and contingencies		
Stockholders' equity:		
Preferred stock, par value $0.01 per share; 50 shares authorized; none issued	-	-
Common stock, par value $0.01 per share; 750 shares authorized; 318.8 and 353.3 issued including shares held in treasury, respectively	3.2	3.5
Additional paid-in capital	2,741.4	4,994.8
Retained earnings	5,751.8	5,317.3
Treasury stock, at cost; — and 34.5 shares, respectively	(0.1)	(2,199.6)
Accumulated other comprehensive income, net of tax	(12.4)	2.2
Total Republic Services, Inc. stockholders' equity	8,483.9	8,118.2
Non-controlling interests in consolidated subsidiary	4.9	2.7
Total stockholders' equity	8,488.8	8,120.9
Total liabilities and stockholders' equity	$ 23,434.0	$ 22,683.8

The accompanying notes are an integral part of these financial statements.

Bank & Credit References

All inquiries for bank references must be made by fax. Credit References are available upon request.

Bank of America Attn: Confirmation Department Reference: Republic Services Inc. Tax ID 65-0716904 Phone: (803) 832-7770 Fax (Toll #): (900) 733-5100 Online: www.bankVOD.com
J P Morgan Chase Bank Attn: Confirmation Credit Inquiries PO Box 955200 Fort Worth TX 76155-2732 Reference AWIN Management, Inc. Tax ID 76-0353318 Phone: (800) 550 8509 Fax: (817) 345-3795
Wells Fargo Attn: Confirmation Department Reference: Republic Services, Inc. Tax ID 65-0716904 Phone: (540) 563-7323 Fax (Toll #) (844) 879-0544 (Audits and Credit Inquiries) Fax: (844) 879-0416 (Routing Number and Verification Requests)

Please see the 2020 and 2019 Annual reports attached to the electronic bid.

Figure 51. ***Republic Services' Identifications, Classifications, and Ratings***

Republic Services Identifications, Classifications, and Ratings	
Federal Employee Identification Number	65-0716904
Dun's Identification Number	61342862
U.S. Dept. of Labor (SIC) Code	4953 – Sanitary Services / Refuse Systems
North American Industry Classification System (NAICS) - Primary	562212 – Solid waste landfills combined with collection and/or hauling of waste materials
North American Industry Classification System (NAICS) – Secondary	562111 – Solid waste collection 562920 – Material Recovery Facilities 562920 – Other non-hazardous waste treatment and disposal
Standard & Poor's Identification Number and Rating	(TIN): 13-1026995 BBB+
Moody's Identification Number and Rating	(TIN): 13-3998945 Baa3
Fitch's Identification Number and Rating	(NRSRO): 3235-0625 BBB

Letter of Credit

Bank of America Merrill Lynch

Bank of America Merrill Lynch
540 W. Madison Street
IL 4-540-22-23
Chicago, IL 60661
Phone: 312-992-3882

4/22/2021

Andrew Rozwadowski
Purchasing and Contracts Manager
701 SW 71st Avenue, 2nd Floor
North Lauderdale, FL 33068

RE: Financial Capability Letter from Bank of America, N.A.

We have been advised that Republic Services, Inc. (the "Company") is submitting a response to a bid proposal for The City of North Lauderdale, FL. They have asked us to provide you with a letter which addresses their financial capability through this process.

Bank of America, N.A. has had the pleasure of doing business with Republic Services and its subsidiaries for over 20 years. Not only do we enjoy a comprehensive treasury management relationship, but we also have a very significant credit relationship. We serve as Administrative Agent for and participant in, the company's five-year $2.25 billion Revolving Credit Facility and 364-day $1.0 billion Revolving Credit Facility, of which approximately $2.7 billion is available as of this date, to be utilized for direct borrowings and issuance of letters of credit, subject to certain conditions. The facility has been handled as agreed.

Republic Services, Inc. has adequate financial resources and all of their accounts are in good standing. Should you have additional questions about our relationship with Republic Services, please do not hesitate to contact me by phone at: 312-992-3882 or by email at: michael.contreras@bofa.com.

Please note that the information set forth in this letter is subject to change without notice, and is provided in strict confidence, without any responsibility or liability on the part of Bank of America, N.A. Bank of America, N.A. undertakes no responsibility to update the information set forth in this letter.

Very truly yours,

BANK OF AMERICA, N.A.

Michael Contreras
Vice President

IX. Litigation Information

Republic Services is involved in routine judicial and administrative proceedings that arise in the ordinary course of business and that relate to, among other things, personal injury or property damage claims, employment matters, and commercial and contractual disputes. We are subject to federal, state, and local environmental laws and regulations.

Due to the nature of our business, we are also often routinely a party to judicial or administrative proceedings involving governmental authorities and other interested parties related to environmental regulations or liabilities.

From time to time, we may also be subject to actions brought by citizens' groups, adjacent landowners or others in connection with the permitting and licensing of our landfills or transfer stations or alleging personal injury, environmental damage, or violations of the permits and licenses pursuant to which we operate. Additional information can be provided upon request.

In the previous five years, Republic Services has not experienced any of the following claims against:

- Officers of the company
- Local key personnel
- A bid or proposal
- Performance bond
- Any contractual default or termination

Disclosures

City of North Lauderdale, FL RFP
Disclosure

March 26, 2021

Matter Name	Description	Substantive Law	Start Date	Case Number	Court	State	Date Resolved	Description of Resolution	Organizational Unit
Acosta, Alberto and Reyes, Edey v. Republic Services of Florida, LP (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse and Republic Services of Florida, Limited Partnership d/b/a Seaside Sanitation)	Plaintiffs allege that the Company automatically deducted 30 minutes each day for a meal break from drivers who did not take uninterrupted 30 minute meal breaks in violation of the Fair Labor Standards Act.	Employment-Wage & Hour	04/24/2017	8:17-cv-00940-JSM-MAP	United States District Court, Middle District of Florida	Florida	08/29/2017	Settled 8/29/2017.	Area 07-Southeast (A) > 4486-Southeast Area General
Aurelien, Scheidna / All Services Refuse (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse Hauling (Florida))	Charging Party alleges discrimination based on her National Origin and race.	Employment-EEO	06/08/2009	EEOC-510-2009-04312	EEOC	Florida	04/11/2011	EEOC dismissed the case issuing a no cause determination.	Area 07-Southeast (A) > 3752-All Service Refuse
Barnes, Dana / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach)	Charging Party alleges discrimination based on age.	Employment-EEO	12/03/2014	EEOC-510-2015-00899; FCHR 201500268	Equal Employment Opportunity Commission; Florida Commission on Human Relations	Florida	06/21/2016	EEOC issued a no cause determination.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Barnes, Dana v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach). (Facility Name: Sunburst Sanitation Hauling)	Plaintiff alleges that he was discriminated against based on his age by the Company.	Employment-EEO & Other	04/14/2016	502016CA002961XXXXMB	Palm Beach County Circuit Court, FL	Florida	07/28/2016	Settled and dismissed with prejudice.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Barrett, Jeffrey v. Republic Services of Florida, Limited Partnership (d/b/a All Service Refuse)	Plaintiff alleges violations of the Federal Labor Standards Act as he alleges he was not paid for all work performed during his employment since he was paid on a per diem basis. Plaintiff alleges that he was subject to an automatic lunch deduction regardless of whether or not he stopped working during his lunch period.	Employment-Wage & Hour	01/30/2018	0:17-cv-62391-JIC	U.S. District Court, Southern District of Florida	Florida	04/30/2018	Settled.	Area 07-Southeast (A) > 3752-All Service Refuse
Barthelemy, Kesner / Republic Services of Orlando (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando)	Charging Party alleges discrimination based on his national origin and claimed disability.	Employment-EEO	06/14/2011	EEOC-846-2011-58685	U.S. Equal Employment Opportunity Commission	Florida	04/05/2012	Settled.	Area 07-Southeast (A) > 3778-Republic Services of Orlando
Batiste, Tawyana / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges gender discrimination.	Employment-EEO	02/25/2014	511-2014-01017	Equal Employment Opportunity Commission	Florida	09/03/2015	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Batiste, Tawyana v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Plaintiff alleges sexual harassment, wrongful discharge, and hostile work environment.	Employment-EEO	12/08/2015	15-9512SC	County Court, Pinellas County, Florida	Florida	03/17/2016	Settled and Dismissed	Area 07-Southeast (A) > 3753-Republic Services of Tampa

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Blas, Anthony / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Seaboard Waste Systems)	Charging Party retained counsel and filed a Charge with the EEOC in which he claims that he was discriminated against based on his disability.	Employment-EEO	12/29/2016	510-2017-01111	U.S. Equal Employment Opportunity Commission / Florida Commission on Human Relations	Florida	07/06/2018	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3607-Seaboard Waste Systems
Brown, Nathaniel v. Republic Services of Florida, L.P. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Plaintiff alleges that he was retaliated against by the Company.	Employment-Other	10/16/2015	CACE-16-008398	Circuit Court of the 16th Judicial Circuit, Broward County	Florida	05/24/2018	Matter settled and lawsuit dismissed.	Area 07-Southeast (A) > 3752-All Service Refuse
Buono, Elizabeth / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems of Jacksonville)	Charging Party alleges discrimination based on her race and gender.	Employment-EEO	06/09/2014	846-2014-17736	Equal Employment Opportunity Commission	Florida	05/18/2016	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3605-Southland Waste Systems of Jacksonville
Carey, Chris / Republic Waste Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on his race.	Employment-EEO	05/24/2016	524-2016-01873	U.S. Equal Employment Opportunity Commission/Florida Commission on Human Relations	Florida	01/24/2018	EEOC issued a no cause finding and dismissed the charge on January 24, 2018.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Carlton Jones, Acnel Moise, Alfredo Gonzalez, Arnold Hill, Derrick Edwards, Eddy Stephene, Gerardo Quinones, Guslaire Cajuste, Joseph Jean Paul, Lawrence Rincon, Levi Bellinger, Lucanes Moimeme, Oge Ceant, Quinton Reese, Rouski Predesca, Sean Jackson, Serena Dawes, and Smith Lordeus v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach and Republic Services of Florida, Limited Partnership d/b/a All Services Refuse)	Plaintiffs filed a Fair Labor Standards Act wage/hour Complaint with the United States District Court for the Southern District of Florida.	Employment-Other	12/30/2014	14-CV-62943	United States District Court, Southern District Court	Florida	08/18/2016	Matter concluded.	Area 07-Southeast (A) > 4486-Southeast Area General
Chan, Wai / Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems	Charging Party alleges discrimination based on her race, age, and national origin.	Employment-EEO	03/26/2013	510-2013-00077	Equal Employment Opportunity Commission	Florida	06/25/2013	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3614-Southland Waste Systems
Chaney, Gene / Republic Services of Orlando (Correct Legal Entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando)	Charging Party alleges discrimination based on race.	Employment-EEO	10/12/2010	EEOC 15F-2010-00277; FEPA 461-2010-00267	EEOC	Florida	02/23/2012	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3778-Republic Services of Orlando
Corbin, Chris / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Volusia County)	Charging Party alleges that he was discriminated against based on his disability and was retaliated against by the Company.	Employment-Other	04/18/2016	EEOC 510-2016-01731	U.S. Equal Employment Opportunity Commission	Florida	09/29/2017	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3776-Republic Services of Volusia County

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Matter Name	Description	Substantive Law	Start Date	Case Number	Court	State	Date Resolved	Description of Resolution	Organizational Unit
Cordero, Joel / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges national origin discrimination.	Employment-EEO	07/01/2013	511-2013-02319	Equal Employment Opportunity Commission	Florida	02/17/2014	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Crescent Resources, LLC Bankruptcy / Crescent Resources Litigation Trust v. Republic Services of Florida, Limited Partnership f/k/a Southland Waste Systems, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems allegedly received preferential transfers within 90 days of the Petition Date that was filed by the debtor under Chapter 11 of the Bankruptcy Code.	Bankruptcy	06/27/2011	Case No. 09-11507; Adv. No. 11-1167	United States Bankruptcy Court, Western District of Texas	Florida	08/06/2011	Settled and dismissed with prejudice.	Area 07-Southeast (A) > 4486-Southeast Area General
Deravice, Jean / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse Service) (3754)	Charging Party alleges discrimination based on national origin, age and retaliation.	Employment-EEO	01/29/2009	EEOC-846-2009-10825	EEOC	Florida	09/30/2013	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Diaz, Jorge / Republic Services of Florida (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach) (3760)	Charging Party alleges discrimination based on national origin.	Employment-EEO	11/06/2009	EEOC-846-2009-51411	EEOC	Florida	09/30/2011	The EEOC issued a no cause determination.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Dorillas, Francillien / Republic Waste Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on his national origin and age.	Employment-EEO	10/29/2015	511-2016-00156	Equal Employment Opportunity Commission	Florida	12/28/2016	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
El Bali, Jamaldine / Republic Services of Sarasota (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Sun Coast Sanitation Transfer Station)	Charging Party alleges discrimination based on his on his race, religion, and national origin.	Employment-EEO	02/04/2016	511-2016-01001	U.S. Equal Employment Opportunity Commission/Florida Commission on Human Rights	Florida	07/11/2018	The EEOC issued a no cause finding on July 11, 2018. Matter concluded.	Area 07-Southeast (A) > 3784-Sun Coast Sanitation
Favors, Lester Jr. / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Charging party has filed a Charge of Discrimination against the Company and alleged discrimination based on race and age.	Employment-EEO	06/16/2020	15D202000985; 202025761	U.S. Equal Employment Opportunity Commission; Florida Commission of Human Relations	Florida	01/12/2021	Florida Commission on Human Relations issued a finding of no reasonable cause and notice of right to sue.	Area 07-Southeast (A) > 3614-Southland Waste Systems
Figgs, Jr., Edward / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Charging Party alleges discrimination based on race, gender and disability.	Employment-EEO	06/21/2016	846-2016-26534	U. S. Equal Employment Opportunity Commission; Jacksonville Human Rights Commission	Florida	08/08/2016	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3614-Southland Waste Systems

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Ford, Shannon / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando)	Charging Party alleges disability discrimination and retaliation.	Employment-EEO	08/04/2015	510-2015-04210	U.S. Equal Employment Opportunity Commission/Florida Commission on Human Relations	Florida	02/28/2019	The EEOC issued a no cause finding on February 28, 2019. Matter concluded.	Area 07-Southeast (A) > 3778-Republic Services of Orlando
Frazier, Eddie / Treasure Coast Refuse (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Treasure Coast Refuse)	Charging Party alleges discrimination based on his age.	Employment-EEO	02/07/2013	EEOC-510-2013-01757	U.S. Equal Employment Opportunity Commission	Florida	11/15/2013	Settled; EEOC charge withdrawn;	Area 07-Southeast (A) > 3758-Treasure Coast Refuse
Geathers, Derrian v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Plaintiff alleges that he was retaliated against by the Company.	Employment-Other	07/01/2016	CACE-16-008398	Circuit Court of the 17th Judicial Circuit, Broward County, Florida	Florida	12/14/2018	Settled.	Area 07-Southeast (A) > 3752-All Service Refuse
Genet Property Group, Inc. v. Republic Services of Florida, Limited Partnership and Waste Services of Florida, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership)	Plaintiffs allege that they were overcharged for solid waste services for a dumpster that was removed from their property. The allegations relate to a collection / hauling operation Republic no longer owns.	Commercial Law	05/03/2012	12-15543CA32	Circuit Court of the Eleventh Judicial Circuit, Miami-Dade County, Florida	Florida	10/14/2016	Settled.	_Divestitures / Closed Divisions (A) > 3763-All Service-Miami Dade Division
Goosby, Raymon / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Seaboard Waste Systems)	Charging Party alleges discrimination based on race American) and disability.	Employment-EEO	07/02/2018	15D201800793; 201812525	U.S. Equal Employment Opportunity Commission / FL Commission on Human Relations	Florida	02/08/2019	Settled and dismissed.	Area 07-Southeast (A) > 3607-Seaboard Waste Systems
Gordon, Thelma & Gordon, Tyrone v. Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach)	The Plaintiffs failed to state a cause of action but it appears to relate to the termination of Tyrone Gordon's employment and his entitlement to unemployment compensation.	Employment-Other	05/20/2011	50 2011CA 006680	Fifteenth Judicial Circuit, Palm Beach County	Florida	12/13/2011	Case dismissed with prejudice on November 16, 2011.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Gordon, Tyrone v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach)	Plaintiff alleges that he was not appropriately compensated for work performed during his employment.	Employment-Other	09/14/2012	12-cv-81186	United States District Court, Southern District of Florida	Florida	07/08/2013	Settled and dismissed with prejudice.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Guillen, Raul v. Republic Services of Florida and Florida Unemployment Appeals Commission (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Pam Beach)	Guillen is appealing the decision made by the Florida Unemployment Appeals Commission that concluded that Guillen was not entitled to receive unemployment benefits.	Employment-Other	01/08/2012		District Court of Appeals of Florida, Third District	Florida	12/20/2012	Settled.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Henderson, Lawrence / Republic Services, Inc. (Correct Legal Entity: Republic Services of Florida, Limited Partnership, d/b/a Southland Waste Systems)	Charging Party alleges discrimination based on race.	Employment-EEO	04/06/2010	EEOC-15E-2010-00156; 258-030310	EEOC & Jacksonville Human Rights Commission	Florida	03/31/2011	Settled (payroll check only)	Area 07-Southeast (A) > 3614-Southland Waste Systems

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Hernandez, William / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Charging party alleges discrimination based on his disability.	Employment-EEO	11/04/2013	510-2014-00076	Equal Employment Opportunity Commission	Florida	05/20/2014	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3752-All Service Refuse
Hickman, Arthur / Republic Waste Service (Correct Legal Entity: Republic Services of Florida, Limited Partnership, d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on sex.	Employment-EEO	05/21/2010	EEOC-511-2010-01789	EEOC	Florida	02/08/2012	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Hinzman, Charles / Republic Services of FL (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse)	Charging Party alleges discrimination based on his race and that he was retaliated against by the Company.	Employment-EEO	02/20/2013	511-2013-01042	Equal Employment Opportunity Commission	Florida	03/01/2013	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Hinzman, Charles / Republic Services of FL (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse)	Charging Party alleges discrimination based on retaliation.	Employment-Wage & Hour	06/11/2013	511-2013-02684	U.S. Equal Employment Opportunity Commission	Florida	11/26/2013	The EEOC issued an Order of Dismissal.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Iverson, Vincent / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging party alleges discrimination based on his race .	Employment-EEO	05/31/2011	511-2011-01681	Equal Employment Opportunity Commission	Florida	12/18/2012	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Jenkins, Theresa / Republic Services, Inc.(correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on her disability and claims that she was retaliated against by the Company.	Employment-EEO	08/14/2017	511-2017-02568	U.S. Equal Employment Opportunity Commission	Florida	07/18/2018	The EEOC issued it no cause finding on July 18, 2018. Matter concluded.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Jernigan, Joseph / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando)	Charging party alleges discrimination based on his race and retaliation.	Employment-EEO	02/24/2011	15F-2011-00086; 461-2011-00086	Equal Employment Opportunity Commission	Florida	02/27/2013	EEOC issued a determination finding merit in the allegations of Joseph Jernigan.	Area 07-Southeast (A) > 3778-Republic Services of Orlando
John Wiggins v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Plaintiff alleges that the Company violated the Florida Consumer Collection Practices Act by attempting to collect a debit while they were aware that the Plaintiff had retained legal counsel.	Commercial Law	03/29/2019	2019-cc-425	Fifth Judicial Circuit, State of Florida, Hernando County	Florida	05/02/2019	Settled and dismissed.	Area 07-Southeast (A) > 3757-Seaside Sanitation
Johnson, Henry / Reliable Sanitation (Correct Legal Entity: Republic Services of Florida, Limited Partnership d/b/a Reliable Sanitation)	Charging Party alleges discrimination based on age and retaliation.	Employment-EEO	12/06/2010	510-2010-03446	US EEOC	Florida	07/29/2011	The EEOC issued a no cause determination.	Area 07-Southeast (A) > 3762-Reliable Sanitation

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Kapec, David v. Hall, Fred, McGee, Letha and Hall, Donald and Southland Waste Systems, Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership)	Plaintiff alleges that the Garnishee, Republic Services of Florida, Limited Partnership, failed to reply and answer a Writ of Garnishment.	Commercial Law	02/10/2011	01-2009-CC-004403; 01-2011-AP-000022	Eighth Judicial Circuit, Alachua County, Florida	Florida	05/11/2012	On May 11, 2012, the Appeals Court affirmed lower court's order denying Plaintiff's motion for default.	Area 07-Southeast (A) > 3639-Southland Waste Systems
Kelly, Jennifer / Republic Services aka Florida Refuse (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse)	Charging Party alleges discrimination based on her claimed disability.	Employment-EEO	11/29/2011	FCHR No. 20120313	Florida Commission on Human Relations	Florida	05/10/2012	Florida Commission on Human Rights issued No Cause Determination	Area 07-Southeast (A) > 3754-Florida Refuse Service
Kesner, Rusmond v. Republic Services of Florida, Limited Partnership d/b/a Republic Services of Palm Beach	Plaintiff filed a complaint with the United States District Court for the Southern District of Florida in which he claims damages for unpaid compensation for work performed.	Employment-Unpaid Wages	04/14/2014	14-CIV-80413	United States District for the Southern District of Florida	Florida	05/21/2014	Settled and dismissed with prejudice.	_Divestitures / Closed Divisions (A) > 3760-Republic Services of Palm Beach
Legezdh, Joshua / All Service Refuse (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Charging party alleges discrimination based on his race.	Employment-EEO	03/04/2011	510-2011-01422	Equal Employment Opportunity Commission	Florida	12/19/2011	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3752-All Service Refuse
Lester Favors v. Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Plaintiff alleges discrimination based on race and age.	Employment-EEO	01/12/2021	16-2020-CA-007159	Fourth Judicial Circuit of the State of Florida, Duval County	Florida			Area 07-Southeast (A) > 3614-Southland Waste Systems
Mendoza, Jose A. v. Republic Services of Florida, Limited Partnership d/b/a All Service Refuse (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Plaintiff alleges wrongful discharge and failure to pay unpaid leave.	Employment-EEO	07/28/2020	CACE-20-011949	In the Circuit Court of the 17th Judicial Circuit, In and For Broward County, Florida	Florida			Area 07-Southeast (A) > 3752-All Service Refuse
Morris, Aaron v. Republic Services of Florida, LP (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a All Service Refuse)	Plaintiff alleges the Company violated the Fair Labor Standards Act.	Employment-Unpaid Wages	12/10/2014	0:14-cv-62797-FAM	U.S. District Court, Southern District of Florida	Florida	04/15/2015	The parties reached a settlement.	Area 07-Southeast (A) > 3752-All Service Refuse
Moses, Howard v. Republic Services of Florida, LP (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse Service	Plaintiff alleges he was retaliated against for filing a worker's compensation claim and for asserting his Family and Medical Leave Act rights.	Employment-Other	04/15/2015	2015CA001319	Circuit Court of the Tenth Judicial Circuit	Florida	10/08/2015	Settled.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Negron, Arnold / Florida Refuse Services, Inc, (correct legal entity: Republic Services of Florida, limited Partnership d/b/a Florida Refuse Service)	Charging party alleges discrimination based on his national origin.	Employment-EEO	05/09/2011	511-2011-01537	Equal Employment Opportunity Commission	Florida	08/23/2012	EEOC filed Dismissal and Notice of Rights	Area 07-Southeast (A) > 3754-Florida Refuse Service
Nixon, Annette / Republic Services of Florida, Limited Partnership d/b/a Republic Services Recycling Center of North Florida	Charging Party alleges discrimination based on her race, national origin, religion, and that she was retaliated against by the Company.	Employment-EEO	03/09/2016	FCHR No.: 201600824; EEOC No.: 15D201600402	Florida Commission on Human Relations; Equal Employment Opportunity Commission	Florida	12/05/2016	FCHR issued a no cause determination.	Area 07-Southeast (A) > 3611-RS Recycling Center of North Florida

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Perry, Zolton / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse)	Charging Party alleges discrimination based on his race and that he was retaliated against by the Company.	Employment-EEO	11/20/2013	846-2013-46662	Equal Employment Opportunity Commission	Florida	11/20/2015	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Railside, LLC. v. Tropical Exchange Corp: Republic Services of Florida, Limited Partnership	Tropical abandoned the premises at 1450 Bell Ave, Fort Pierce, FL. The premises and the Plaintiff's Property has been condemned by the City of Fort Pierce. Copious amounts of abandoned recyclables remain located throughout the premises.	Real Estate	10/28/2020	2019CA001972	St. Lucie	Florida			+TBD
Republic Services of Florida, Limited Partnership d/b/a Southland Recycling Services v. City of Jacksonville	The Company filed a Complaint for Declaratory Judgment against the City, seeking a declaration from the Court that: (i) the Contract for Receipt, Processing, and Sale of Residential Recycling Materials ("Processing Contract") does not require the Company to pay rebates on the non-recyclable residue that is commingled with the recyclable materials the Company receives from the City; and (ii) the Company is entitled to repayment of the amount it has overpaid the City for non-recyclable residue over the course of the Processing Contract.	Contracts	08/31/2015	3:15-cv-1391-J-34MCR	United States District Court, Middle District of Florida	Florida	01/19/2016	Settled and dismissed without prejudice.	Area 07-Southeast (A) > 3611-RS Recycling Center of North Florida
Republic Services of Florida, Limited Partnership v. City of Bartow, Florida; (Correct Legal Entity: Republic Services of Florida, Limited Partnership d/b/a Cedar Trail C&D Landfill, 3779); United States District Court, Middle District of Florida, Cause No. 8:08CV118-T30MAP; (formerly RSI #2008-00015)	Complaint for Declaratory Judgment seeking interpretation of the type of waste that may be disposed of at the Cedar Trail Landfill under a Final Consent Judgment dated September 29, 1994 among Construction and Demolition Disposal, Inc., Soil Resources, Inc., and the City of Bartow.	Contracts	01/18/2008	8:08CV118-T30MAP	Fed. Dist. Ct. - M.D. Fla.	Florida	08/16/2012	Settled, and FDEP issued modified Class I construction and operation permits for Cedar Trail which permits were affirmed on appeal by the Second District Court of Appeal	Area 07-Southeast (A) > 3779-Cedar Trail C&D Landfill
Rios, Oriol / Republic Services of Florida, Limit (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Seaside Sanitation)	Charging Party alleges discrimination based on disability, failure to accommodate an alleged disability, and retaliation. Charging Party also alleges hostile work environment.	Employment-EEO	04/26/2018	510-2018-03739	U.S. Equal Employment Opportunity Commission / FL Commission on Human Relations	Florida	02/15/2019	Matter settled and acknowledged by the EEOC. Matter concluded.	Area 07-Southeast (A) > 3757-Seaside Sanitation
Rivera, Edgardo and Colon, Daniel v. Republic Services of Florida LP (correct legal entity: Republic Services of Florida, Limited Partnership)	Rivera and Colon allege that they were not compensated at the statutory overtime rate for work in excess of 40 hours in violation of FLSA.	Employment-Wage & Hour	08/07/2017	8:17-cv-02414-CEH-MAP	United States District Court of Middle District of Florida, Tampa Division	Florida	05/02/2018	Settled. Dismissed on 1/31/2018.	Area 07-Southeast (A) > 3753-Republic Services of Tampa

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Rogers, Luvert / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Charging Party alleges discrimination based on race and retaliation.	Employment-EEO	12/11/2014	15E-2015-00039; 0270-07222014-E	Equal Employment Opportunity Commission / Jacksonville Human Rights Commission	Florida	01/24/2019	The Jacksonville HR Commission issued a no cause finding on January 24, 2019 and the EEOC adopted the JHRC findings on April 3, 2019.	Area 07-Southeast (A) > 3614-Southland Waste Systems
Russo, Anthony / Republic Services of Florida, Limited Partnership d/b/a Republic Waste Services (correct d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on age and race and color.	Employment-EEO	06/03/2019	15H-2019-00048; 1905-064	U.S. Equal Employment Opportunity Commission / Pinellas County Office of Human Rights	Florida	12/11/2019	The Commission issued a no cause finding and dismissed the Charge on December 11, 2019.	Area 07-Southeast (A) > 3753-Republic Services of Tampa
Seay, Richard v. Republic Services of Florida, Limited Partnership d/b/a Florida Refuse Service	Plaintiff alleges damages for wrongful termination.	Employment-EEO & Other	12/08/2016	2016CA-001508-0000-00	Circuit Court of the Tenth Judicial Circuit, Polk County, Florida	Florida	06/17/2017	Settled and dismissed.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Stanislaus, Angeline / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando)	Charging Party alleges discrimination based on gender and also alleges retaliation by the Company.	Employment EEO	07/28/2014	510 2014 04107	U.S. Equal Employment Opportunity Commission	Florida	04/17/2018	The EEOC issued its no cause finding on April 17, 2018; matter dismissed.	Area 07 Southeast (A) > 3778-Republic Services of Orlando
Stanislaus, Angeline v. Republic Services of Florida, Limited Partnership d/b/a Republic Services of Orlando	Plaintiff alleges sexual harassment, gender discrimination, and retaliation.	Employment-EEO	05/15/2018	6:18-cv-00740-RBD-TBS	United States District Court, Middle District of Florida, Orlando Division	Florida	02/12/2019	Settled and case dismissed.	Area 07-Southeast (A) > 3778-Republic Services of Orlando
State of Florida Department of Corrections (Polk County Facility) v. Republic Services of Florida, LP (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse Service)	The State of Florida Department of Corrections alleges that Republic Services of Florida, LP is trespassing on their property by failing to remove its equipment after the contract was cancelled.	Commercial Law	01/17/2011	53-2010CC006354	Polk	Florida	08/08/2011	Settled and dismissed with prejudice.	Area 07-Southeast (A) > 3754-Florida Refuse Service
Stephens, Levar / Republic Services of Florida (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Republic Services of Tampa)	Charging Party alleges discrimination based on his race and retaliation.	Employment-EEO	01/03/2013	511-2013-01252	Equal Employment Opportunity Commission	Florida	11/05/2013	EEOC issued a no cause determination.	Area 07-Southeast (A) > 3757-Seaside Sanitation
Thomson, Averil / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership, d/b/a Southland Waste Systems)	Charging party alleges discrimination based on his age.	Employment-EEO	04/19/2010	15E-2010-00172; 281-031810	Equal Employment Opportunity Commission	Florida	08/18/2015	The Jacksonville Human Rights Commission issued a no cause determination.	Area 07-Southeast (A) > 3614-Southland Waste Systems

City of North Lauderdale, FL RFP
Disclosure

March 26, 2021

Matter Name	Description	Substantive Law	Start Date	Case Number	Court	State	Date Resolved	Description of Resolution	Organizational Unit
Valdes, Elienai / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Treasure Coast Refuse)	Complainant filed a complaint with OSHA alleging that the Company engaged in retaliatory employment practices.	Employment-EEO	11/14/2013	4-1050-14-005	Occupational Safety and Health Administration	Florida	03/12/2014	Settled.	Area 07-Southeast (A) > 3758-Treasure Coast Refuse
Walthour, Eugene / Republic Services, Inc. (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Southland Waste Systems)	Charging Party alleges discrimination based on race.	Employment-EEO	04/22/2014	846-2014-19630	Equal Employment Opportunity Commission / Jacksonville Human Rights Commission	Florida	01/26/2016	The EEOC issued a no cause finding on January 26, 2016. Matter concluded.	Area 07-Southeast (A) > 3614-Southland Waste Systems
Washington, Chantal / Republic Services (correct legal entity: Republic Services of Florida, Limited Partnership d/b/a Florida Refuse Service // Republic Services of Polk County)	Charging Party alleges discrimination she discriminated against based on her gender and that she was retaliated against by the Company.	Employment-EEO	02/17/2016	511-2016-00930	Equal Employment Opportunity Commission	Florida	03/17/2016	EEOC was unable to conclude that the information obtained established violations of the statutes.	Area 07-Southeast (A) > 3788-Florida Refuse

Litigation b.

ALL LIQUIDATED DAMAGES MUNICIPAL CONTRACT PER CONTRACT YEAR FOR PAST TEN YEARS			
Republic Services of Florida, Limited Partnership's response to this question is, to the best of its knowledge, complete and accurate as of March 2021, Republic Services of Florida, Limited Partnership obtained information responsive to this question from a review of available corporate records and reasonable inquiry.			
CUSTOMER	LIQUIDATED DAMAGES	VIOLATION DESCRIPTION	DATE OF VIOLATION
Palm Beach County	$19,200.00	-Various service issues but mainly missed p/u (2nd notice) or incomplete route	June through December 2011
	$41,100.00	-Various service issues but mainly missed p/u (2nd notice) or incomplete route	January through September 2013
	$111,811.00	Taking commercial recovered materials that the SWA considered to be trash to a non-SWA	April 22, 2013 (Settled)
	$18,700.00	-Various service issues but mainly missed p/u (2nd notice) or incomplete route	January through December 2014
	$5,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract	January through December 2015
	$200.00	Missed pickup not completed pursuant to section 19 of Franchise contract	January 2016
	$200.00	Missed pickup not completed pursuant to section 19 of Franchise contract	February 2016
	$2,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	March 2016
	$8,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	April 2016
	$1,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	May 2016
	$3,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	June 2016
	$3,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	July 2016
	$0.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	August 2016
	$2,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	September 2016
	$4,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	January 2017
	$2,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	February 2017
	$1,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	March 2017
	$1,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	May 2017
	$8,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	June 2017
	$2,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	July 2017
	$5,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	October 2017
	$4,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	November 2017
	$11,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	December 2017
	$9,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	January 2018
	$18,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	February 2018
	$81,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	March 2018
	$15,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	April 2018
	$11,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	May 2018
	$27,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	June 2018

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	$22,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	July 2018
	$28,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	August 2018
	$4,800.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	September 2018
	$2,800.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	October 2018
	$20,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	November 2018
	$11,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	December 2018
	$54,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	January 2019
	$8,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	February 2019
	$18,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	March 2019
	$8,000.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	April 2019
	$9,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	May 2019
	$6,600.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	June 2019
	$9,200.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	July 2019
	$7,400.00	Missed pickup not completed pursuant to section 19 of Franchise contract. Missed p/u	August 2019
Polk County	$32,250.00	- Bulky items not collected with 72 hrs. - Missed collection not serviced within 24 hrs. - Failure to collect whole street - Cart repairs/mixing yard waste/yard waste spill	May through August 2012
	$13,400 *(protested portions resolved pursuant to a settlement agreement dated 6/17/14)*	- Missed garbage pick ups - Failure to collect whole street - Missed recycle pick ups	June through July 2013
	$27,400 *(protested portions resolved pursuant to a settlement agreement dated 6/17/14)*	- Missed recycle pick ups - Issue closed and service not completed	August through September 2013
	$12,100 *(protested portions resolved pursuant to a settlement agreement dated 6/17/14)*	- Missed Pickups - other service issues	February through November 2013
	$34,000 *(resolved pursuant to a settlement agreement dated 6/17/14)*	- Missed Pickups	January 2014
	$3,600.00	- Missed Pickups	June through July 2014
	$19,000.00	- Missed Pickups and other service issues	July through September 2014
	$5,000.00	- Missed Pickups and other service issues	November 2014
	$39,500.00	- Missed Pickups and other service issues	January through July 2015
	$1,500.00	- Late Reporting	October 2015
	$22,500.00	- Missed Pickups and other service issues	Feb through May 2015
	$29,000.00	- Missed Pickups and other service issues	December 2015 - February 2015
	$22,500.00	- Missed Pickups and other service issues	March 2016 - May 2016
	$36,000.00	- Missed Pickups and other service issues	March 2016 - Aug 2016
	$160,000 Assessed and will be addressed in mediation	- Missed Pickups and other service issues	January 2017 - August 2017
	$32,000.00	- Missed Pickups	April through June 2015
	$4,000.00	- Missed Pickups	January 2016
	$24,000.00	- Missed Pickups	June 2016
	$45,000.00	- Missed Pickups	July 2016
	$30,000.00	- Missed Pickups	August 2016
	$0.00	- Missed Pickups	September, 2016
	$0.00	- Missed Pickups	October, 2016
	$0.00	- Missed Pickups	November, 2016
	$5,000.00	- Missed Pickups	December, 2016
	$52,000.00	- Missed Pickups and Service Issues	January, 2017
	$63,500.00	- Missed Pickups and Service Issues	February, 2017
	$99,000.00	- Missed Pickups and Incomplete Routes	March 2017
	$310,000.00	- Missed Pickups and Incomplete Routes	April 2017
	$146,200.00	- Missed Pickups and Incomplete Routes	May 2017
	$26,700.00	- Missed Pickups and Incomplete Routes	June 2017
	$83,425.00	- Missed Pickups and Incomplete Routes	July 2017
	$13,500.00	- Missed Pickups and Incomplete Routes	Aug 2017
	$975.00	- Missed Pickups and Incomplete Routes	Sep 2017

Hillsborough County	$0.00	- Missed Pickups and Incomplete Routes	Oct 2017
	$0.00	- Missed Pickups and Incomplete Routes	Nov 2017
	$1,700.00	- Missed Pickups and Incomplete Routes	Dec 2017
	$1,700.00	- Missed Pickups and Incomplete Routes	Jan 2018
	$26,000.00	- Missed Pickups and Incomplete Routes	Feb 2018
	$34,100.00	- Missed Pickups and Incomplete Routes	Mar 2018
	$20,000.00	- Missed Pickups and Incomplete Routes	April 2018
	$10,800.00	- Missed Pickups and Incomplete Routes	May 2018
	$60,000.00	- Missed Pickups and Incomplete Routes	June 2018
	$76,000.00	- Missed Pickups and Incomplete Routes	July 2018
	$76,000.00	- Missed Pickups and Incomplete Routes	Aug 2018
	$179,000.00	- Missed Pickups and Incomplete Routes	Sep-18
	$260,500.00	- Missed Pickups and Incomplete Routes	Oct-18
	$241,000.00	- Missed Pickups and Incomplete Routes	Nov-18
	$265,500.00	- Missed Pickups and Incomplete Routes	Dec-18
	$25,500.00	- Missed Pickups and Incomplete Routes	Jan-19
	$317,600.00	- Missed Pickups and Incomplete Routes	Feb-19
	$12,900.00	- Missed Pickups and Incomplete Routes	Mar-19
	$12,000.00	- Missed Pickups and Incomplete Routes	Apr-19
	$20,000.00	- Missed Pickups and Incomplete Routes	May-19
	$37,000.00	- Missed Pickups and Incomplete Routes	Jun-19
	$3,000.00	- Missed Pickups and Incomplete Routes	Jul-19
	$62,000.00	- Missed Pickups and Incomplete Routes	Aug-19
	$76,750.00	- Missed Pickups and Incomplete Routes	Sep-19
	$12,000.00	- Missed Pickups and Incomplete Routes	Oct-19
	$38,750.00	- Missed Pickups and Incomplete Routes	Nov-19
	$9,000.00	- Missed Pickups and Incomplete Routes	Dec-19
	$2,000.00	- Missed Pickups and Incomplete Routes	Jan-20
	$1,000.00	- Missed Pickups and Incomplete Routes	Feb-20
	$3,000.00	- Missed Pickups and Incomplete Routes	Jul-20
	$5,000.00	- Missed Pickups and Incomplete Routes	Sep-20
Hernando County	$135,000.00	- Missed Pickups and Incomplete Routes	Mar 2018
Volusia County	$106,704.00	- Missed Pickups - Failure to collect bulk waste/other service issues	January through December 2012
	$10,750.00	- Missed Pickups	April through July 2015
	$122,450.00	- Missed Pickups	September - December 2015
	$21,800.00	- Missed Pickups	January 2016
	$2,900.00	- Missed Pickups	February 2016
	$12,575.00	- Missed Pickups	March 2016
	$25,650.00	- Missed Pickups	April 2016
	$11,450.00	- Missed Pickups	May 2016
	$6,000.00	- Missed Pickups	June 2016
	$14,300.00	- Missed Pickups	July 2016
	$8,800.00	- Missed Pickups	August 2016
	$2,700.00	- Missed Pickups	September 2016
	$1,350.00	- Missed Pickups	October 2016
	$3,250.00	- Missed Pickups	November 2016
	$13,600.00	- Missed Pickups	December 2016
	$4,400.00	- Missed Pickups	January 2017
	$3,250.00	- Missed Pickups	February 2017
	$2,900.00	- Missed Pickups	March 2017
	$4,250.00	- Missed Pickups	April 2017
	$1,350.00	- Missed Pickups	May 2017
	$1,400.00	- Missed Pickups	June 2017
	$600.00	- Missed Pickups	July 2017
	$400.00	- Missed Pickups	August 2017
	$0.00	- Missed Pickups	September 2017
	$650.00	- Missed Pickups	October 2017
	$300.00	- Missed Pickups	November 2017
	$0.00	- Missed Pickups	December 2017
	$0.00	- Missed Pickups	January 2018
	$0.00	- Missed Pickups	February 2018
	$750.00	- Missed Pickups	March 2018
	$1,350.00	- Missed Pickups	May 2018
	$16,490.00	-Missed pickups and other service issues	January through April 2015
	$43,831.00	-Missed pickups and other service issues- cart damage	May through June 2015
	$7,300.00	- Comingling yard waste and other service issues	July 2015
	$6,500.00	- Comingling yard waste and other service issues	August through September 2015

	$5,000.00	- Comingling yard waste and other service issues	October 2015
	$3,000.00	- Comingling yard waste and other service issues	November 2015
	$2,000.00	- Service Related Issues	December 2015
	$16,000.00	Cart Damage and Service related issues	January 2016
	$4,500.00	Service Related Issues	January 2016
	$4,000.00	Service Related Issues	February 2016
	$2,490.00	Garbage Spillage , Customer complaints , being in the city late	March 2016
	$11,903.37	Contaminated YW	April 2016
	$7,600.00	- Missed Pickups in excess of 40 per week MSW and yard waste combined - Failure to maintain schedule, specifically, routes not completed before 6:00 pm -Spillage -Over three complaints from same address in 12 month period	May 2016
	$4,115.00	Garbage Spillage , Customer complaints , being in the city late	June 2016
	$7,512.00	Contaminated yard waste, Customer complaints, being in the city late	July 2016
	$9,745.46	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	August 2016
	$1,500.00	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	September 2016
	$2,160.40	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	October 2016
	$3,839.60	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	November 2016
	$4,500.00	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	December 2016
	$4,745.00	Damaged carts, missed pickups, Contaminated yard waste, Customer complaints, being in the city late	January 2017
	$2,280.00	Damaged carts, Customer complaints, being in the city late	February 2017
	$4,061.52	Damaged carts, Customer complaints, spilled trash, being in the city late	March 2017
	$2,530.00	Damaged carts, Customer complaints, spilled trash, being in the city late	April 2017
	$2,380.00	Damaged carts, Customer complaints, spilled trash, being in the city late	May 2017
	$2,500.00	Damaged carts, Customer complaints, being in the city late	June 2017
	$3,130.00	Damaged carts, Customer complaints, spilled trash, being in the city late	July 2017
	$3,287.48	Damaged carts, Customer complaints, spilled trash, being in the city late	August 2017
	$1,500.00	Damaged carts, Customer complaints, spilled trash, being in the city late	September 2017
City of Ft Lauderdale	$3,500.00	Damaged carts, Customer complaints, spilled trash, being in the city late	October 2017
	$2,300.00	Damaged carts, Customer complaints, spilled trash, being in the city late	November 2017
	$2,300.00	Damaged carts, Customer complaints, spilled trash, being in the city late	December 2017
	$2,310.00	Liquidated damage, customer complaints, spilled trash	January 2018
	$5,967.83	Liquidated damage, yard waste contamination, customer complaints, spilled trash	February 2018
	$2,512.70	Liquidated damage, cart damages, Contaminated YW	March 2018
	$2,131.00	Liquidated damage, cart damages, Contaminated YW	April 2018
	$2,949.00	Liquidated damage, cart damages, Contaminated YW 4 of 7	May 2018

$5,593.69	Liquidated damage, cart damages, Contaminated YW	June 2018
$4,540.00	Liquidated damage, cart damages, Contaminated YW	July 2018
$5,075.00	Liquidated damage, cart damages, Contaminated YW	August 2018
$3,150.00	Liquidated damage, cart damages, Contaminated YW	September 2018
$2,750.00		October 2018
$2,480.00	Liquidated damage, cart damages, Contaminated YW	November 2018
$6,000.00	Liquidated damage, cart damages, Contaminated YW	December 2018
$5,960.00	Liquidated damage, cart damages, Contaminated YW	January 2019
$2,150.00	Liquidated damage, cart damages, Contaminated YW	February 2019
$7,102.50	Liquidated damage, cart damages, Contaminated YW	March 2019
$7,103.50	Liquidated damage, cart damages, Contaminated YW	April 2019
$4,300.00	Liquidated damage, cart damages, Contaminated YW	May 2019
$4,730.00	Liquidated damage, cart damages, Contaminated YW	June 2019
$7,220.00	Liquidated damage, cart damages, Contaminated YW	July 2019
$8,880.00	Liquidated damage, cart damages, Contaminated YW	August 2019
$6,360.00	Liquidated damage, cart damages, Contaminated YW	September 2019
$14,630.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	October 2019
$7,920.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	November 2019
$4,700.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	December 2019
$10,760.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short	January 2020
$4,995.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short	February 2020
$6,210.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short	March 2020
$5,190.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	April 2020
$9,835.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	May 2020
$13,195.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	June 2020
$20,845.00	Damaged carts, Customer complaints, Misses, spilled trash, being in the city late , Short Supervisors	July 2020
$18,285.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	August 2020
$11,435.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	September 2020
$19,165.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	October 2020
$38,035.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	November 2020

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	$13,035.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	December 2020
	$9,675.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	January 2021
	$15,285.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	February 2021
	$15,000.00	Damaged carts, Customer complaints, Misses, spilled trash & Hydraulic, being in the city late ,Cart Delivery	
City of Weston	$36,252.50	-non collection of bulk waste	January through June 2015
	$1,050.00	-Missed Pick Ups	November 2015
	$3,325.00	-Missed Pick Ups	January 2016
	$920.00	-Missed Pick Ups	February 2016
	$2,360.00	-Missed Pick Ups	March 2016
	$6,190.00	-Missed Pick Ups	April 2016
	$1,600.00	-Bulk missed Pick Ups	May 2020
City of Jacksonville	$13,850.00	- Missed pick ups	March through August 2015
	$4,250.00	Failure to report incomplete routes	September 2015
	$1,475.00	- Failure to address customer complaint - other service issues	October 2015
	$5,400.00		December 2015
	$2,425.00		January 2016
	$9,200.00		February 2016
	$38,125.00		March 2016
	$6,650.00		April 2016
	$2,075.00		May 2016
	$2,875.00		June 2016
	$1,800.00		July 2016
	$1,350.00		August 2016
	$800.00		September 2016
	$2,275.00		October 2016
	$2,100.00		November 2016
	$1,750.00		December 2016
	$275.00		January 2017
	$725.00		February 2017
	$1,175.00		March 2017
	$0.00		April 2017
	$3,550.00		May 2017
	$1,875.00		June 2017
	$3,425.00		July 2017
	$4,375.00		August 2017
	$600.00		September 2017
	$825.00		October 2017
	$2,200.00		November 2017
	$1,075.00		December 2017
	$1,950.00		January 2018
	$2,175.00		February 2018
	$22,025.00		March 2018
	$25,650.00		April 2018
	$28,285.00		May 2018
	$79,325.00		June 2018
	$57,125.00		July 2018
	$47,025.00		August 2018
	-$13,015.00		September 2018 - Credit
	$11,695.00		October 2018
	$117.50		November 2018
	$10,262.50		December 2018
	$54,900.00		January 2019
	$57,750.00		February 2019
	$7,325.00		March 2019
	$17,900.00		April 2019
	$20,500.00		May 2019
	$14,625.00		June 2019
	$12,525.00		July 2019
	$15,500.00		August 2019
	$1,900.00		September 2019

	$100.00		October 2019
	$3,384.00		November 2019
	$1,875.00		December 2019
	$500.00		January 2020
	$9,975.00		February 2020
	$0.00		March 2020
	$0.00		April 2020
	$33,125.00		May 2020
	$52,475.00		June 2020
	$63,262.50		July 2020
	$128,375.00		August 2020
	$57,200.00		September 2020
	$60,300.00		October 2020
	$13,625.00		November 2020
	$25,275.00		December 2020
	-$19,005.00		January 2021
	-$237.50		February 2021
	$30,205.00		March 2021

X. Business Structure & Professional Registration

Certificate of Good Standing

State of Florida
Department of State

I certify from the records of this office that REPUBLIC SERVICES OF FLORIDA, LIMITED PARTNERSHIP is a Delaware limited partnership authorized to transact business in the State of Florida, qualified on December 27, 1999.

The document number of this limited partnership is B99000000467.

I further certify that said limited partnership has paid all fees due this office through December 31, 2020 and that its status is active.

I further certify that said limited partnership has not filed a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twelfth day of March, 2021

Secretary of State

Tracking Number: 5814230626CU

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https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

Broward County Business Tax Receipt

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-83 1-4000
VALID OCTOBER 1, 2020 THROUGH SEPTEMBER 30, 2021

DBA:
Business Name: ALL SERVICE REFUSE REPUBLIC SERVICES OF FL LP

Receipt #: 326-3550
Business Type: COURIER/TRANSPORT/DLVRY/TOWING (SOLID WASTE/RECYCLING/REMOVAL)

Owner Name: REPUBLIC SERVICES INC
Business Location: 751 NW 31 AVE FT LAUDERDALE
Business Phone: 954-583-1830

Business Opened: 09/27/2004
State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		275		

For Vending Business Only — Number of Machines: — Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
150.00	0.00	0.00	0.00	0.00	0.00	150.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:

REPUBLIC SERVICES INC
751 NW 31 AVE
FORT LAUDERDALE, FL 33311

Receipt #WWW-19-00197842
Paid 07/20/2020 150.00

2020 - 2021

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Signature

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Receipt #WWW-19-00197842
Paid 07/20/2020 150.00

Corporate Data Sheet

Corporate Data Sheet Report

As of March 25, 2021

Republic Services of Florida, Limited Partnership

Formed in Delaware on 12/02/1999

Status:	Current		
Entity Type :	Limited Partnership		
Federal ID #:	65-0965470	**Internal #:**	XY
Domicile:			

Primary Address

18500 North Allied Way
Phoenix, Arizona 85054

Partners

	Title
Republic Services of Florida GP, Inc.	General Partner
Republic Services of Florida LP, Inc.	Limited Partner

Direct Owners

	Registered in	%Ownership
Republic Services of Florida GP, Inc.	Delaware	1.0000 %
Republic Services of Florida LP, Inc.	Delaware	99.0000 %

Registrations

	Charter No.	Tax ID No.	Date	End Date
Arizona				
Qualification	3007917		12/04/2012	
Delaware				
Formation	3136069		12/02/1999	
Florida				
Qualification	B99000000467		12/27/1999	
Georgia				
Qualification	0211922		03/07/2002	
North Carolina				
Qualification	1734183		08/01/2018	
South Carolina				
Qualification			12/07/2012	
Washington				
Qualification	UBI#: 603-390-039		03/31/2014	

XI. Added Value and Enhancement

Sustainability

We invest more than $100 million per year in our sustainability initiatives to commit to our blue planet. We are the only solid waste company selected to the prestigious Dow Jones Index for Sustainability in both the North American and World indices.

Our industry-leading sustainability platform focuses on increasing recycling, decreasing vehicle emissions, generating renewable energy, and enabling our customers to be more resourceful. In 2018-19, Republic Services were steadily building upon our sustainability achievements, including:

- The gold standard in corporate sustainability, Republic Services, was named to the Dow Jones Sustainability – North America and World Index™ (DJSI) - for the fourth straight year.
- Inclusion on two elite lists by the Carbon Disclosure Project (CDP), including the Global Climate A-List and the Supplier A-List. The CDP is an organization based in the United Kingdom which works with shareholders and corporations to disclose the greenhouse emissions of major corporations. In the last assessment, we scored 98 out of 100 in the S&P 500 Climate Change Assessment
- Receiving the industry's top awards for Recycling Facility of the Year. Both Republic Services' Southern Nevada Recycling Center, the largest and smartest residential recycling facility in North America, and the Plano Recycling Center were recognized by the top two industry associations for their excellence and innovation.
- Recognition for landfill gas utilization excellence by the Georgia Chapter of the Solid Waste Association of North America. Three Republic Services facilities in the metro-Atlanta area

Republic Services' blue planet initiative strives for a cleaner, safer and healthier world

- Named to the Dow Jones Sustainability Index for a fourth straight year
- Added 150K tons of recycling capability in 2018
- Scored 98 out of 100 in the Carbon Disclosure Project S&P 500 Climate Change Assessment
- More than a quarter of a million homes can be powered by our 75 landfill-gas-to-energy plants
- 3,200 (and counting) compressed natural gas vehicles



Figure 52. ***Committed to Sustainability****. Republic Services' sustainability goals trace to five key areas*

- generate more than 24 megawatts of renewable energy, capable of powering more than 15,600 homes.
- For the fourth year in a row, Republic Services was named a World's Most Ethical Company® by the Ethisphere® Institute – Republic Services is the sole recycling and solid waste services provider listed under the Environmental Services category.

We continue to find new avenues for sustainability success. Consider our five-point sustainability platform (see Figure 68):

Operations We are working to minimize the impact of our operations around our fleet and our facilities. We have established aggressive sustainability goals now through the year 2030.

Materials Management When we extract materials from the waste stream (commodities and/or energy), we reduce greenhouse gas emissions and your community's carbon footprint.

Communities Our Empty, Clean, Dry™ recycling outreach and education program help your residents and business community recycle more and waste less.

Safety We are committed to creating a safe environment for our customers, communities, and employees. A recent national study found that Republic Services is the safest solid waste company – by a 40 percent margin.

People We employ and develop talented professionals who are committed to sustainability, our customers, and each other.

*Figure 53. **Five Elements of Sustainability**. Republic Services is the lowest risk, best-value partner for your municipality, focusing our sustainability platform around these five areas*



Safety

Safety is Republic Services' highest priority. We adhere to a strict safety protocol policy with supporting infrastructure, where employees are trained to Think. Choose. Live.®

Safety Overview

Republic Services has an industry-leading safety program that has been 40% better than the industry average for the past nine years, based on OSHA data. In addition, we have been recipients of 75% of industry Driver of the Year awards for the large truck category since 2009.

Republic Services maintains strict compliance with all applicable OSHA and Federal, State, and Local safety requirements while performing all work-related functions.

We recognize that a safe workforce is not simply a discussion with a new hire but a dedicated plan to review, educate, and verify employee practices throughout their career.

Republic Services has the lowest occurrence of incidents and crashes in the industry due to our company-wide emphasis on safety, extensive employee training, and ongoing educational development programs. Republic Services requires all operations personnel to participate in extensive classroom training, testing and on-road auditing, and policy reinforcement.

Republic Services offers full-spectrum safety initiatives and award-winning safety training programs to all employees. We are an industry leader in safety, and we are very proud of our safety track record.

Think. Choose. Live.®

Every day, drivers face a multitude of challenges and are required to make decisions that can greatly impact their safety and the safety of those in the communities we serve. Our best-in-class driver training program focuses on the continual improvement of all our 15,000 drivers.

Our employees are our greatest asset, and our dedication to every employee's safety is second to none

- 40% safer than the industry average, while maintaining the 8th largest vocational fleet in the United States
- Think. Choose. Live.® embodies our company culture
- Winners of 75% of industry Driver of the Year awards since 2009

Our Think. Choose. Live.® philosophy helps navigate these situations by encouraging employees to Think about their actions, Choose the safest approach and Live to go home to their families at the end of each day.

ReSOP Program

The Republic Services Observation Program (ReSOP) is paramount to decreasing safety incidents. Supervisors are required to conduct a minimum of two in-person employee observations per week.

The purpose is to improve safety, customer experience, and productivity. The employee and their leader work together toward excellence.

Safety Meetings & Training

*Figure 54. **Republic Services ReSOP.** Program decreased safety incidents since implementation.*



Republic Services provides weekly, monthly, and annual safety training for all our employees.

Safety topics are developed based on the subject matter required under OSHA regulation. Republic Services prepares well-developed tailgate sessions, provides translators to engage all employees, and encourages open discussion and participation.

Meeting topics may include:

- Injury and illness prevention/safety rules
- Back injury prevention
- Emergency response/fire safety
- Exposure control plan
- Drug and alcohol program
- Personal protective equipment
- Employee right-to-know
- Hearing conservation safety
- Lockout and tag out safety
- Slips, trips, and falls
- Confined space entry

Safety Recognition Program

The Republic Services Dedicated to Safety and Dedicated to Excellence programs are designed to identify, recognize and reward safety-sensitive employees who are dedicated to safety and excellence in their workplace.

Employee safety and excellence are measured on six criteria: no preventable crashes or injuries, no unscheduled lost time, and no safety warning letters. Each employee who qualifies is recognized monthly, quarterly, and annually.

Quality Control

To ensure extreme reliability and a consistently high level of customer service, Republic Services has a quality control program called Driver Service Management (DSM).

DSM includes an extensive driver-lead reporting process, accompanied by regular auditing, that is focused on safeguarding against procedural failures. DSM standards guarantee that all driver issues will be addressed and completely resolved by supervisors or management within seven days of discovery.

Other key benefits of this program include:

- Increased driver communication and accountability with Republic Services management
- Improved documentation and resolution of driver issues
- Improved customer service
- Improved on-route safety

The program is monitored and conducted by a Driver Service Coordinator responsible for:

- Conducting pre- and post-route briefings with drivers
- Entering and monitoring DSM issues
- Running and distributing reports

Drivers must observe and record issues while performing collection duties and report findings to the Driver Service Coordinator during the pre-and post-route briefings daily.

The objective of the pre-route briefing is to ensure all drivers have the necessary tools to run their routes safely, competently, and accurately each day. The Driver Service

*Figure 55. **Continually Improving Safety** is Top Goal for Republic Services.*



Coordinator reviews the following topics during the briefing:

- Confirms the driver is wearing the proper uniform and gear: clean uniform and personal protective equipment (PPE)
- Confirms the driver has the necessary route paperwork: sequenced route sheets and special/extra paperwork
- Confirms the driver has completed the pre-trip vehicle inspection report
- Ensures route completion by the end of the day

During collection activities, drivers are instructed to make notes on their route sheets throughout the day. The objective of the post-route briefing is to collect all valuable route information from each driver. Driver Service Coordinators must complete the post-route briefing section of the Driver Check-In form, and drivers must sign the form before clocking out each day.

Finally, Driver Service Coordinators must submit any findings to the appropriate department that same day. For example, customer service will receive issues such as billing concerns and questions; operations will receive issues such as poorly sequenced routes; sales will receive items such as commercial overage issues; safety will receive information pertaining to safety items such as low hanging wires or dangerous dumpster locations, and maintenance will be forwarded issues such as repair and replacement needs.

Should an item remain open for longer than seven days, it is forwarded to the General Manager to bring matters to an immediate resolution.

To track items, the following reports are produced:

- Driver Service Issues Cover Sheets are printed automatically each day for any route that has associated issues and is distributed to drivers along with their daily route sheets
- Open Issue Reports are run daily by department managers and include the day's new issues
- Aged Open Issue Reports are run by the Driver Service Coordinator, as needed, and is intended to bring awareness to the General Manager of challenging issues that need to be resolved
- Closed Issue Reports are posted weekly in the driver break room to increase driver awareness

Together for Safer Roads

As the operator of the 8th largest vocational fleet in the country, with an industry-leading safety record, we directly affect roadway safety each day. While our strong safety performance is significant in the communities we serve, we aspire for more.

Today, we are proud to be the only recycling and waste services provider associated with Together for Safer Roads. This innovative coalition brings together global private-sector companies across industries to

*Figure 56. **Driver performs a pre-route inspection** to ensure the vehicle is safe for operating.*



improve road safety and reduce deaths and injuries caused by road traffic crashes.

The Coalition's mission to provide guidelines and processes to keep employees, partners, and contractors safe on the road closely aligns with our continuous work fostering an environment that provides ongoing road safety education.

Focus 6

Our Focus 6 program provides employees with tips and techniques to reduce the frequency of our six most common types of serious incidents. This industry-leading program involves in-class training and practical skills course exercises that have helped to reduce crashes and injuries.

Personal Protective Equipment

Republic Services is committed to providing the safest collection and disposal processes possible. We recognize that effective management of worker safety and health protection is a decisive factor in reducing the extent, severity, and cost of work-related injuries and illnesses.

Eye, face, head, hand and high visibility PPE is required to be worn when applicable.

*Figure 57. **Our Focus 6 safety program** assists with tips and techniques to reduce our top 6 most common incident types.*



Recycling Simplified

As a leader in the recycling industry, Republic Services is committed to educating consumers on how and what to recycle – we call it Recycling Simplified.

Recycling Economics

For many municipalities, recycling is a core service that residents expect. Republic Services is committed to offering curbside recycling with the framework of a new business model. A general knowledge of how we arrived at the current state provides the basis for the change.

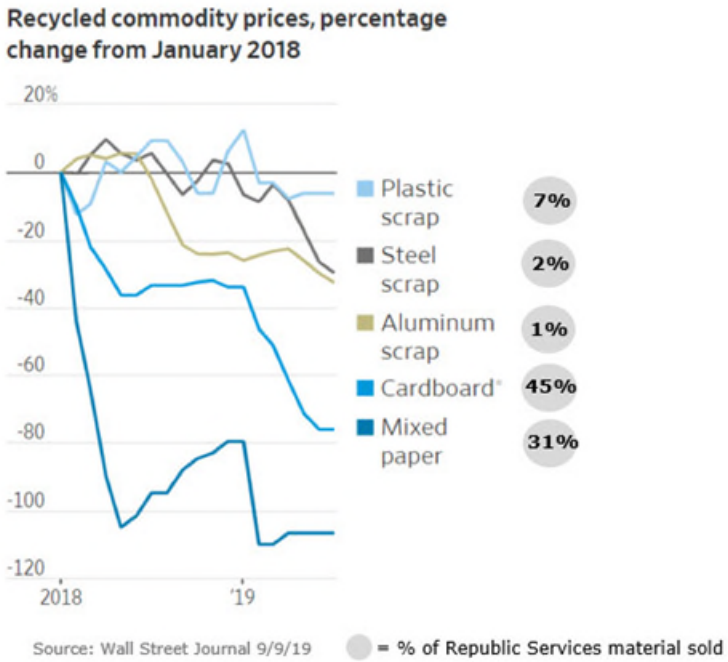
In late 2017, China disrupted the global industry by changing its rules and regulations on imported recyclable material. From total bans on some material to unrealistic quality restrictions on other material had monumental impacts on the sale of recyclable material. China accounted for buying about 40% of the recycling commodities. While China's direction was disruptive, it was only a matter of time before the "old" business model was destined to fail.

Republic Services is creating durable and sustainable processes to ensure municipalities can offer this service to their communities

- On average, one-third of what consumers put in recycling cart doesn't belong
- Collection of recycling commodities should be limited to 3 or 4 items
- The business model must change to make curbside recycling sustainable
- Prior to the disruption to the industry, 30% of Republic's material went to China – today, it is less than 1%
- We continue to invest in technology and equipment

Recycling has never been free. But for a long time, the cost of collecting and processing recycling was covered by the value created by selling the recycled material. What many people don't realize is, even though something is technically

*Figure 58. **Plunging Commodity Prices** as published by the Wall Street Journal in Sept. 2019. About 76% of the material we sell has declined in value 78-105%.*



recyclable, that doesn't necessarily mean there's an end market for it.

The average American household pays about $30 a month for weekly garbage and recycling services. You may be surprised to learn that most of this goes toward the cost of collecting garbage, even though the cost of collecting and processing recycled material is much higher.

We are actively transitioning our municipal customers to a more durable and sustainable pricing model with an equitable risk-sharing arrangement. These new contracts ensure we are paid for the collection and processing of material, and then share the value of the commodity with the municipality.

We know consumers care about recycling, and they have demonstrated a willingness to pay for the service. Paying around just $1 more a week for your weekly recycling service will help keep these services sustainable for future generations.

Despite these recent challenges, we continue to invest in it the recycling business. Recycling is one of the fastest growing segments of the waste stream, in large part due to e-commerce. We're also committed to helping create a cleaner, safer and more sustainable environment for the future.

We are using state-of-the-art technology like optical scanners and even artificial intelligence to help us recover as many recyclable items as possible.

What's changed over the past 25 years is that recycling in the U.S. has never been simpler for consumers, and participation is at an all-time high. This success, however, has resulted in a pricing model that doesn't come close to covering the actual costs of recycling collection and processing, as well as increased contamination rates.

For example, when curbside programs were first introduced, they were largely what we call "source separated," meaning the customer placed different materials in different bins.

- Material was collected in specialized trucks that had multiple compartments and needed to be loaded manually, which was a safety hazard.
- Once a compartment was filled, the truck had to leave the route to dispose of it - this was inefficient and resulted in more

Figure 59. The Recommend Business Model is one where the cost of a recycling program is the sum of fees for the two services – Collection Fee and the Net Processing Fee.



fuel usage, traffic, etc. It was also difficult for customers, so participation was low.

- Admittedly, the quality of recycled materials was much higher than it is today. But given the low participation rates, "source separated" programs were unable to satisfy public policy and regulatory requirements in many markets.

Today, in most markets we offer "single-stream" recycling, in which all recyclables are placed in a single cart. However, the downside is that the quality of the material has decreased dramatically – contamination rates are much higher. On average, more than 30% of what Americans put in their recycling carts doesn't belong there, and that material often exposes good recyclables, like cardboard, to residue from food, liquid, or other waste. This results in more recyclables going to landfills despite the good intentions of consumers.

Another change we've experienced over the decades is the "light-weighting" of packaging. As packaging becomes lighter, we need to process more material to achieve the same weight. In the past we collected 40K water bottles to recycle 1 ton of plastic; with today's lighter bottles, we need to collect 90K water bottles to recycle that same ton of plastic.

Recycling Overview

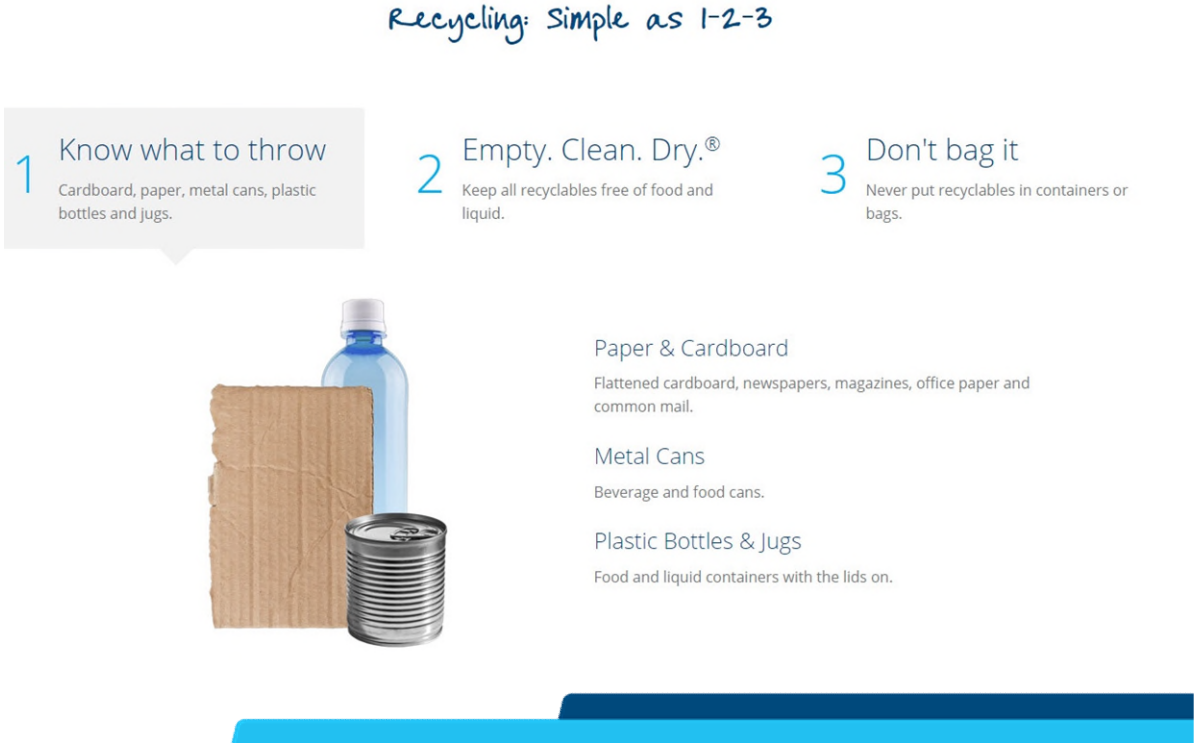
We believe we have a responsibility to educate our customers when it comes to recycling the right way. We understand recycling can be confusing at time, so we have created a campaign to educate people how and what to recycle.

On average, one-third of what consumers put in their recycling carts doesn't belong there. And there aren't enough resources or technology to reverse contamination once it takes place. Some of these items are contaminated with food or another residue. Think of a ketchup bottle – if there's still ketchup inside, it's contaminated and can ruin an entire load of recyclables.

Other items people put into their recycling carts simply shouldn't be there. From dirty diapers to garden hoses to bowling balls, non-recyclable materials should be disposed of or donated.

We know people want to be responsible and do the right thing to ensure the local

Figure 60. Republic Services is making recycling as simple as 1-2-3.



recycling programs they know, and love, are sustainable for future generations. We encourage consumers to take a couple extra minutes a day to think about what they are putting in their carts, and for them to recognize there is a true cost to local recycling programs.

Many people are "wish-cycling" – throwing items in their recycling bin that they hope can be recycled. Remember: When in doubt, throw it out.

There also shouldn't be 50 different items in your recycling cart! Stick to these materials, and you'll be doing it right:

- Paper and cardboard
- Metal or aluminum cans
- Plastic bottles and jugs

We mean it when we say we are making recycling simple. Follow three important rules:

- Know what to throw – [
- Make sure recyclables are Empty. Clean. Dry.
- Don't bag it. Recyclables should be placed loosely in your cart – and plastic bags never belong.

To help consumers know how and what to recycle, we launched our Recycling Simplified campaign. Visit RecyclingSimplified.com for tips, videos and resources to become a better recycler and reduce contamination rates.

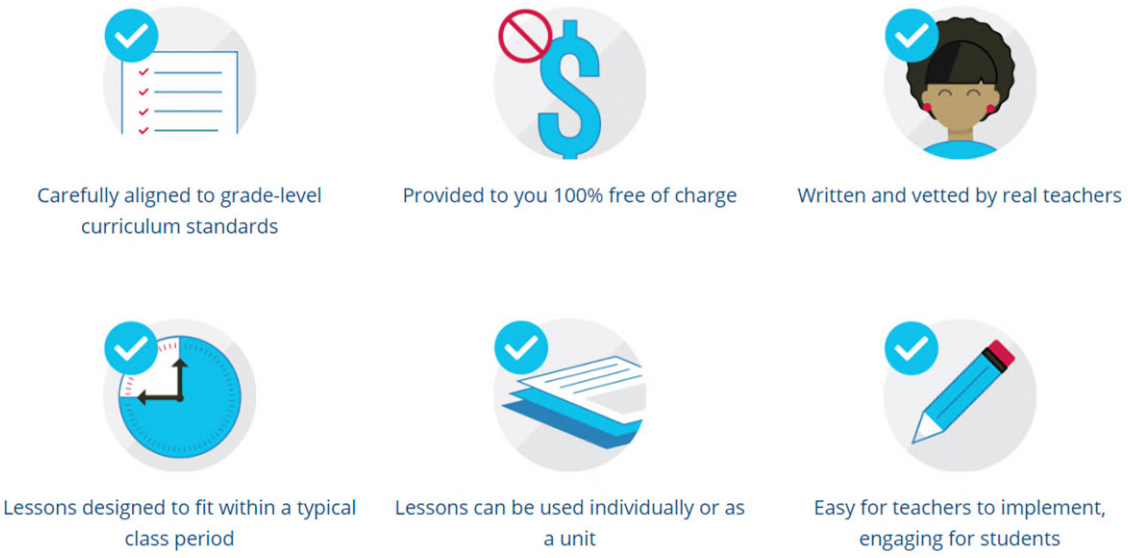
Prior to the recent changes, 30% of our recyclable material used to go to China, now it's less than 1%.

The good news is that we are moving all our recycled material – we have new markets for recyclables both domestically and internationally. But the prices paid for recycled commodities are nowhere near where they were just one year ago.

Education

We are partnering with communities to help reduce contamination and the best way to do this is through education. We also know that the children are integral in driving behaviors in the home. We are extremely proud to offer a free service to the schools to assist in this effort. The Recycling Simplified Education Program contains everything needed to teach students about recycling. You'll find step-by-step lesson plans and supporting materials including

*Figure 61. **Republic Services is proud** to partner with communities to offer lessons and activities for educators built by educators.*



activities, videos, student certificates and handouts for students to bring home. The curriculum is based on grade level. There are four categories – PreK-2, 3rd-5th, 6-8th and 9-12th grade.

Lessons within each grade range build upon students' understanding and help them gain greater awareness of the broader environmental, sustainability, and societal issues related to recycling and its role in conserving natural resources. The lessons can be taught as a unit or individually – whatever fits best for your students and your curriculum.

The Future?

Republic Services doesn't know where the recycling commodity markets will be next year or the next 10 years. We do know that we're making recycling simpler for customers, and if Americans take the necessary steps now, the model will be profitable and sustainable for generations to come.

We believe we can transform the business model from one that largely relies on the value of the recovered commodities to one that fully acknowledges the cost of collecting and processing the recycled material and shares the value of the commodities. We are actively transitioning our municipal customers to a more durable and sustainable pricing model with an equitable risk-sharing arrangement.

Municipalities also need to join us in shifting their focus to extracting materials that have positive environmental (life cycle) benefits and have end markets. Diversion needs to be about re-introducing materials into production and manufacturing systems, not about hitting a number.

Everyone wants to do the right thing, but recycling is a business. Over the past 25 years, state legislatures have been racing to 50%, 75%, or even zero-waste goals.

For Americans, recycling will be much simpler and more convenient in the future. Consumers will better understand what and how to recycle properly. We launched a new website, RecyclingSimplified.com, to help them learn what to recycle while minimizing contamination. We want to simplify the entire process to make it easy for Americans to feel good about what they do to protect our environment.

Figure 62. Visit us at Recyclingsimplified.com for more information.



Public Education and Outreach

Public education is critical to maintaining an efficient and cost-effective service for recycling and waste in your community.

The goal of Republic Services Public Education and Outreach Program is to educate residents on industry trends and the services offered by Republic Services. We do this by engaging community groups and business associations, to educate residents and businesses about the key elements of the program, including relevant program changes, and highlighting customer service, cost, environmental benefits and state requirements.

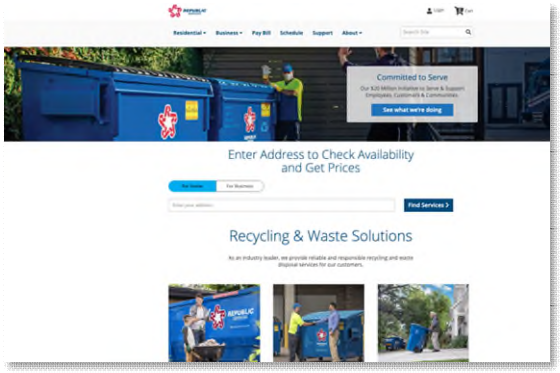
Website

The Republic Services website is designed to be a one-stop resource for current and potential customers. Here they will find news updates, collection information and educational tools. The educational program provides in-depth information for both residential and commercial customers, and the programs are downloadable and can be used for outreach and environmental initiatives. When a resident enters their service address, they will find news and resources specific to North Lauderdale.

RepublicServices.com provides in-depth content specific to residential and commercial needs. Residential pages allow

the user to enter their address to receive information specific to them, including the ability to schedule pickup, or change service. If the customer is direct billed by Republic Services, they can also inquire into billing related questions or even view and securely pay their bill. Residential customers will also find resources on recycling and environmental needs.

*Figure 63. **Republic Services' Website**. RepublicServices.com is a one-stop resource.*



We develop and maintain a library of public education programs and materials that our partners can leverage in their communities

- Instant access to information via website and the Republic Services app
- Facility tours
- School education and take-home materials
- Videos and public service announcements
- Community newsletters

Business pages allow users to login and view/pay their bills, view billing history, and schedule pickups. Commercial users will also find resources on how to responsibly dispose of electronics waste, hazardous household material, and other environmentally harmful materials.

On the main page of RepublicServices.com, visitors will be able to view a video clip of recycling education that features our "closed loop" recycling collection program. This video can easily be edited to focus on any new initiatives agreed upon with North Lauderdale.

Republic Services App

Our application for mobile devices can be used to schedule a pick-up, report a missed pick-up, receive service notifications, search additional products and services, and much more. It can be easily downloaded from the App Store for Apple users or for Android users from Google Play.

Reference Guides & Collateral

As part of the initial program implementation our ongoing education efforts, we will provide the following materials to ensure that residents are fully

aware of the services provided by Republic Services and how to properly use these services.

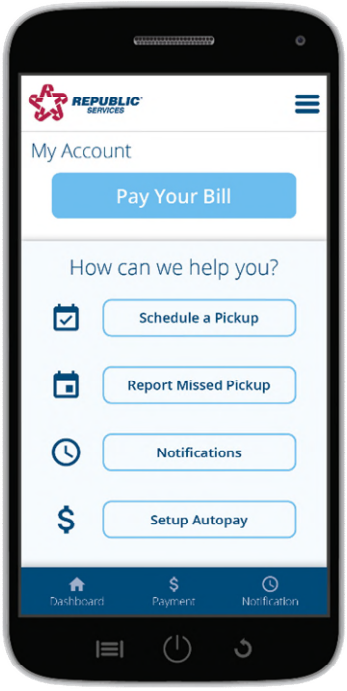
Welcome Packet

At the commencement of service, Republic Services will provide an initial information packet to residents. This packet will contain information on the services offered and proper preparation procedures. In addition, the packet will contain information on additional services and products offered by Republic Services as well as a collection day reminder for their specific location. This packet will also be made available to new residents that move into North Lauderdale.

Annual Education Updates

Republic Services will mail each household an annual reference guide for collection services. This reference guide will contain information on collection services as well as any updates for acceptable or unacceptable materials. The reference guide will also contain information on new products and services available to residents.

*Figure 64. **Mobile App**. Over 2.4M customers use the Republic Services app to instantly access important information on services.*



Oops Tags

Oops tags are our first line of education for residents that have placed unacceptable items at the curb for collection. Drivers and route supervisors will leave an oops tag with the resident if a material cannot be picked up. Oops tags will provide the reason why the item was not picked up as well as a phone number to call for further follow up information.

Presentations to Schools and Other Community Organizations

Republic Services is a well-known friend, supporter and partner to local schools in North Lauderdale. We believe that providing an environmental education to students will build a foundation and an appreciation to preserving and protecting the planet. Students, in turn, bring this knowledge back to their families and become catalysts for promoting sustainable habits at home.

Republic Services provides teachers, staff and students with training on proper diversion and disposal practices. We place significant emphasis on the importance of recycling as it diverts reusable materials from being disposed in and allows for a longer lifespan for local landfills.

We provide education on all aspects of environmental stewardship including trash, electricity, water, paper, chemical, and emissions reductions. Our goal is to empower students to utilize what they have learned in their school communities about environmental sustainability to make a global impact.

Enroll and Involve the Entire School Community in Becoming Great Recyclers

Republic Services will engage school administrators, faculty, staff and students in its efforts to conduct a successful recycling program. Once enrolled, the entire school community will receive specialized education

based on that group's role in promoting recycling.

Republic Services will include the following elements when addressing the education and training needs of each community member:

1) Communication and Feedback

Republic Services will communicate the availability of educational resources to each school's administrators through a variety of outlets prior to the opening of school each fall. In addition, a recycling representative will follow up and respond to school/teacher requests for educational materials, resources, and presentations throughout the year.

2) Logistical Training

Republic Services will meet with administrators, faculty, facilities personnel, and parents (through PTA meetings and other means) initially, and as needed, to establish and provide training on internal materials capture systems. We will provide educational curriculum and program how-to information in a fun format, such as storytelling, recycling relays, competitions, waste audits and videos. Educational curriculum, activities and presentations are geared toward grade level/age groups.

3) Recycling Champions

Republic Services will work with all schools within the district to identify a recycling champion within each school who will act as the school's recycling coordinator. This coordinator will monitor faculty, staff and administrators for optimal, proper recycling program participation, knowledge, and utilization of educational resources provided by Republic Services and other sources. They will also communicate recycling program results to students and staff.

4) District Recycling Committee

Republic Services proposes that the school district recycling committee be comprised of the identified recycling champions named in item 3 above and headed by a district administrator and a Republic Services recycling representative. The recycling committee will meet according to need and district preference until recycling programs are functional in all schools.

5) Recycling Education

All educational materials will be provided in the primary languages represented in the student body of the district and can be found at RecyclingSimplified.com

Republic Services involvement with local schools goes beyond how we can help with environmental education, we also believe in supporting students at all levels. For example, we provide educational and safety programs at local schools featuring characters such as Recycling Rosie, Garbage Gus and Driver Mike.

The presentation is interactive and features information on how to recycle and teaches children how to be safe around collection vehicles. Children receive a complimentary coloring book that reinforces the safety message. At the end of the presentation, children are escorted out to the parking lot, where a Republic Services truck and driver are on hand so that children can sit in the cab, view the controls, and ask the driver questions.

Republic Services also encourages an annual recycling contest among local elementary

*Figure 65. **Engaging kids through schools**. We believe that providing an environmental education to students will build a foundation and an appreciation to preserving and protecting the planet.*



schools. Each school is challenged to reduce waste, recycle more, and separate their food scraps for composting. Schools will compete for the greatest year-over-year diversion results (measured Fall through early Spring). The winning school is rewarded with an all-expenses paid recycling fair that will feature multiple activity stations including recycled art projects, an opportunity to view the inside of a recycling collection truck, and products made from recycled materials.

In addition to providing a unique and comprehensive school outreach program, Republic Services plans to reach out to various community organizations such as the Chamber of Commerce, Rotary, business associations and other appropriate groups to provide detailed recycling outreach education and offer tools and support for successful programs.

Public Events

Republic Services will be a true leader in North Lauderdale, not only because of our dedication to excellence in service, but because we are a proud community partner.

We participate in numerous community events on an annual basis and propose to build on these existing efforts by partnering with North Lauderdale to develop and launch a sustainability-themed outreach schedule for public events.

*Figure 66. **Recycling Education**. Our educational materials include flyers and stickers for distribution through mailers or at schools.*



The program would involve creating a family of "green" recycling-specific educational hand-outs, and a common, customizable booth design that could be used at local street fairs, art festivals and concerts.

Republic Services will not only continue to provide service and assistance to community events, we will also work with event planners to bring additional value. This would include upfront planning for logistics detail, such as placement of dumpsters, providing a full contingent of dumpsters at each collection point with clear messaging to encourage recycling participation, clean up services, sponsorships and educational materials.

We see this as an opportunity to engage with the community to become even stronger and more vibrant. North Lauderdale can count on Republic Services to be a true corporate citizen and community partner in greening the North Lauderdale service area and educating residents and businesses every step of the way.

Promise®

In 2020, the Republic Services Charitable Foundation supported 24 National Neighborhood Promise projects focused on neighborhood revitalization, positively impacting nearly one million residents. This is in addition to ongoing charitable giving by the Company at the business unit level, in-kind contributions and employee giving and volunteerism.

We are good neighbors. We stand for strong neighborhoods. Through our charitable giving platform centered on neighborhood revitalization, we are making a promise to help rebuild, revitalize and restore places and spaces in need, ultimately creating stronger neighborhoods that sit at the heart of our planet.

Our National Neighborhood Promise is a charitable program funded by the Republic Services Charitable Foundation. This program provides financial support, in-kind products and services, and volunteer opportunities to select nonprofit charitable organizations focused on neighborhood revitalizations. These partnerships create a unique opportunity to strengthen the neighborhoods where our employees and customers live and work.

Through our program, we:

- Renovate / build parks & playgrounds
- Plant community gardens
- Restore public infrastructure
- Reduce neighborhood blight
- Clean up communities

How We Partner

The Republic Services Charitable Foundation partners with select nonprofit organizations to directly support neighborhood revitalization projects and programs in local markets. These partnerships are vital to the success of our program and create a unique opportunity to strengthen our neighborhoods side-by-side with the residents and employees that live there.

While the Foundation's primary focus is neighborhood revitalization, we also support nonprofit charitable organizations that demonstrate community impact in the areas of safety, disaster relief and social services.

*Figure 67. **Our 2020 Calendar** is full, and we are continually looking for additional projects for the future.*



Community Engagement

Serving our customers goes beyond handing their recycling and waste needs. Service is about being a good neighbor to the communities where we live, work, and raise our families. Whether we are volunteering or donating our time or resources, our willingness to give back is yet another way we make a difference.

At Republic Services, our customers can always rely on us to handle their recycling and waste needs in a way that is easy and effortless. But our promise goes far beyond our business. We pride ourselves on being a good neighbor and supporting the communities where we live and work. We want to do our part to help build stronger, safer communities.

Thought Leadership

Delivering exceptional services to a community requires that we remain a thought leader in the complex topics that our industry requires. We understand the complex regulations and requirements to responsibly manage and dispose of the nation's recycling and waste.

We are heavily engaged in the top municipal associations in the country, as well as important local organizations, which include:

- National League of Cities (NLC)
- International City Manager's Association (ICMA)
- Council of Mayors
- National Waste and Recycling Association (NWRA)
- Solid Waste Association of North America (SWANA)
- Tamarac North Lauderdale Chamber of Commerce Trustee
- Greater Sunrise Chamber of Commerce-Treasurer
- Coral Springs Coconut Creek Chamber of Commerce Board Member
- Greater Fort Lauderdale Chamber of Commerce

We are a committed, visible partner for your municipality

- We're watching out for your program - partnering with local law enforcement
- $5M donated annually - cash or in-kind
- $6.7M in local sponsorships nationwide

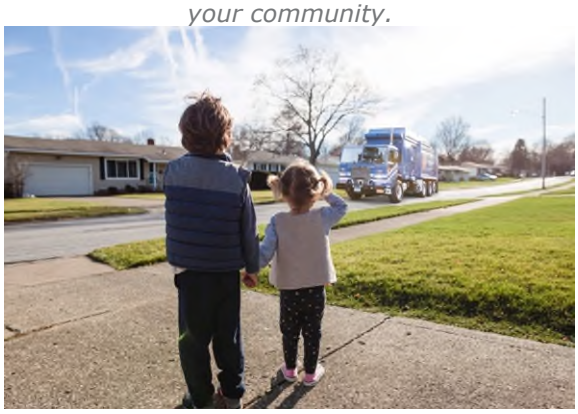
Through these forums, we can contribute as a thought leader, as well as listen and understand the critical and emerging topics within our communities. This enables us to continue to tell our customers that "We'll handle it from here™."

Community Events

Helping the local community and leaders understand the complexity of the industry is a big part of our role. We frequently execute events that enable increased awareness and understanding of how to responsibly dispose of recycling and waste, as well as hold events that assist the community in doing the right thing for our environment.

Shred events help the disposal of large volumes of recyclable paper. Recycling events can educate the community on what and how to recycle properly, using our Empty, Clean and Dry methodology. Lastly, we offer tours of our facilities, to help educate the community on how the operations work, and to show how much effort and care goes into ensuring that the recycling and waste material from your

Figure 68 ***We are a visible*** *and highly engaged partner, because we live and work in your community.*



community is properly handled and disposed in a responsible manner.

In-Kind or Cash Contributions

As a good neighbor, we often support community events and initiatives through in-kind donation of recycling and waste services or cash donations.

Large community events involve large crowds of people. Our event boxes are easily distributed throughout community events, offering easy and environmentally conscious solutions for recycling and waste disposal. Where needed and appropriate, dumpsters can be utilized to manage the consolidation and removal of recycling and waste from an event.

Awards and Recognition

Because of our efforts, Republic Services has been recognized numerous times for our actions as a business and a community partner. Some of these awards and recognition include:

- Named to the CDP Climate "A List" addressing environmental risks and building our future sustainable economy
- Named to both the Dow Jones Sustainability World and North America indices
- Named to the 2020 World's Most Ethical Companies List® by the Ethisphere® Institute for the fourth year in a row
- Great Place to Work certified three years in a row

*Figure 69 **Good neighbors** help build stronger neighborhoods, which is why we volunteer in our communities.*



SCRUTINIZED VENDOR CERTIFICATION

Certification Pursuant To Florida Statute § 287.135

I, Jean-Pierre Turgot- General Manager (Print Name and Title), on behalf of Republic Services of Florida, Limited Partnership (Contractor Name),

Certify that Republic Services of Florida, Limited Partnership (Contractor Name) does not:

1. Participate in a boycott of Israel; and
2. Is not on the Scrutinized Companies that Boycott Israel List; and
3. Is not on the Scrutinized Companies with Activities in Sudan List; and
4. Is not on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
5. Has not engaged in business operations in Syria.

Submitting a false certification shall be deemed a material breach of contract. The City shall provide notice, in writing, to the Contractor of the City's determination concerning the false certification. The Contractor shall have ninety (90) days following receipt of the notice to respond in writing and demonstrate that the determination of false certification was made in error. If the Contractor does not demonstrate that the City's determination of false certification was made in error then the City shall have the right to terminate the contract and seek civil remedies pursuant to Florida Statute § 287.135.

Section 287.135, Florida Statutes, prohibits the City from: 1) Contracting with companies for goods or services in any amount if at the time of bidding on, submitting a proposal for, or entering into or renewing a contract if the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, F.S. or is engaged in a boycott of Israel; and 2) Contracting with companies, for goods or services over $1,000,000.00 that re on either the Scrutinized Companies with activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473, or are engaged in business operations in Syria.

SCRUTINIZED VENDOR CERTIFICATION

As the person authorized to sign on behalf of the Contractor, I hereby certify that the company identified above in the section entitled "Contractor Name" does not participate in any boycott of Israel, is not listed on the Scrutinized Companies that Boycott Israel List, is not listed on either the Scrutinized Companies with activities in the Iran Petroleum Energy Sector List, and is not engaged in business operations in Syria. I understand that pursuant to section 287.135, Florida Statutes, the submission of a false certification may subject the company to civil penalties, attorney's fees, and/or costs. I further understand that any contract with the City for goods or services may be terminated at the option of the City if the company is found to have submitted a false certification or has been placed on the Scrutinized Companies with Activities in Sudan list or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Republic Services of Florida, Limited Partnership

Company Name

03242021

Signature

Jean-Pierre Turgot

Print Name

General Manager

Title

VENDOR CONTACT SUMMARY

THIS FOLLOWING MUST BE COMPLETED IN ITS ENTIRETY INCLUDING THE SIGNATURE OF AN AUTHORIZED REPRESENTATIVE WHERE INDICATED BELOW AND SUBMITTED WITH THE SOLICITATION. FAILURE TO PROVIDE THIS DOCUMENT, WITH THE SOLICITATION RESPONSE, WILL RESULT IN BID BEING CONSIDERED NON-RESPONSIVE.

Bidder's Name and state "Doing Business As", if applicable: Republic Services of Florida, Limited Partnership	
Address: 751 NW 31st Avenue	**City:** Lauderhill
State: FL **Zip Code:** 33311	**Federal Tax Identification Number:** 065-0965470
Telephone Number: 954-327-9555	**Toll Free Number:**
Contact: Jean-Pierre Turgot General Manager	**E-Mail Address of Authorized Representative:** jturgot@republicservices.com

"REMIT TO" ADDRESS FOR PAYMENT:

If payment(s) is/are to be mailed to address other than as stated on left, please complete section below.

Address: P.O. Box 9001099	**City:** Louisville
State: KY **Zip Code:** 40290-1090	**Telephone Number:** 954-327-9555
Contact: Mike Rizopoulos- Finance Manager	**Toll Free Number:** N/A

Signature of Authorized Representative (Manual)

Jean-Pierre Turgot 03/24/2021

Name of Authorized Representative (Typed or Printed)

General Manager

Title



Purchasing and Contracts Division

VENDOR DRUG-FREE WORKPLACE

Preference may be given to vendors submitting a certification with their bid/proposal certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991. The special condition is as follows:

IDENTICAL TIE BIDS - Preference may be given to businesses with drug-free workplace programs. Whenever two or more bids that are equal with respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifies the actions taken against employees for violations of such prohibition.

2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

3. Give each employee engaged in providing the commodities or contractual services that are underbid a copy of the statement specified in subsection (1).

4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are underbid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after each conviction.

5. Impose a section on, or require satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by any employee who is so convicted.

6. Make a good faith effort to continue to maintain a drug-free workplace through the implementation of this section. As the person authorized to sign the statement, I certify that this form complies fully with the above requirements.

03242021

Jean-Pierre Turgot- General Manager
Authorized Signature

Republic Services of Florida, Limited Partnership
Company Name

CITY OF NORTH LAUDERDALE
VENDOR OWNERSHIP SURVEY

Contact:	Agency:	Contact E-mail:
Jean-Pierre Turgot	Republic Services of Florida, Limited Partnership	jturgot@republicservices.com

Vendor Name: Republic Services of Florida, Limited Partenrship_____

Using the drop-down menu to the right to answer the questions below:

1. Does your firm employ more than 50 persons (including full-time and part-time employees)	**Yes**
2. Is your firm a construction firm?	**No**
2A: If YES to number 2 above, is the average annual gross revenue for your firm for the past three (3) years greater than $9 million?	**Choose an item.**
2B: If NO to number 2 above, is the average annual gross revenue for your firm for the past three (3) years greater than $5 million?	**Yes**
3. Which of the following best describes the gender of your firm's primary owner (at least 51% ownership):	**Not Applicable**
4. Which of the following best describes the ethnicity of your firm's primary owner (at least 51% ownership): If you chose "Other", Please indicate: ___Limited Partnership_____	**Other (not listed above)**
5. Which of following best describes the primary owner's veteran status (at least 51% ownership):	**Not Applicable**
6. Is your firm located within the city limits of North Lauderdale?	**No**
7. If your firm has been certified as a Small Business (SBE), a Women Owned Business (WBE), a Minority Owned Business (MBE) a Veteran Owned Business (VBE), or a Certified Business Enterprise (CBE) please indicate the agency or agencies that have granted the certification to your firm. (If you choose "other" please indicate the name or names of the certifying agency(ies)): _____	**N/A**

Please save and email this document to:

Andrew Rozwadowski
Purchasing & Contracts Manager
City of North Lauderdale
Phone: (954) 597-4776
ARozwadowski@nlauderdale.org