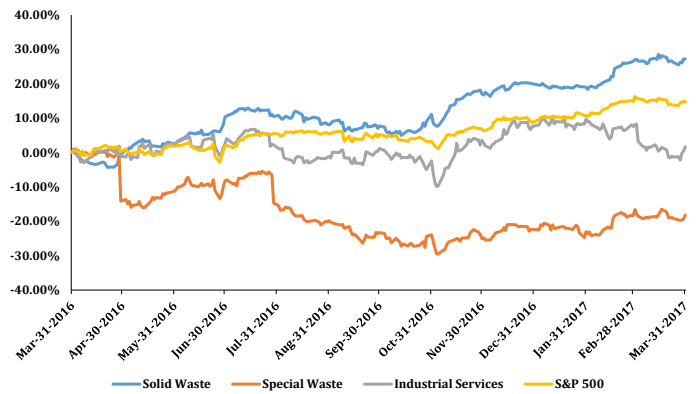
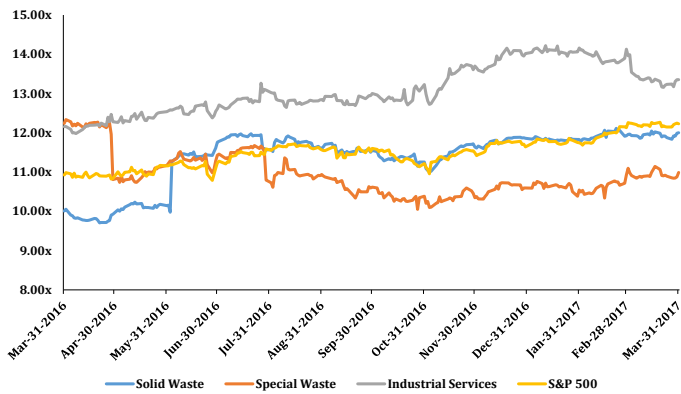


Trash Talk

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Environmental Services LTM TEV/EBITDA

Environmental Services LTM Share Price (Shown as % change)



Indices Performance (% change)

	<u>March 2017</u>	<u>LTM</u>		<u>March 2017</u>	<u>LTM</u>
S&P 500	(1.4%)	14.7%	Solid Waste	0.6%	27.2%
Dow Jones	(2.1%)	16.8%	Special Waste	0.3%	(18.1%)
NASDAQ	0.1%	21.4%	Industrial Services	(5.5%)	1.7%

(Source: CapitalIQ)

Largest Environmental Services Movers and Losers (largest % changes in the month of March)

Meridian Waste Solutions, Inc.	29.7%	Cypress Energy Partners, L.P.	(31.3%)
Casella Waste Systems, Inc.	20.8%	Industrial Services of America, Inc.	(19.9%)
Darling Ingredients Inc.	11.6%	Fuel Tech, Inc.	(8.1%)
Quest Resource Holding Corporation	10.3%	Heritage-Crystal Clean, Inc.	(8.1%)
Perma-Fix Environmental Services, Inc.	6.8%	US Ecology, Inc.	(7.7%)

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Select Public Trading Statistics (as of 3/31/2017)

Solid Waste:

(\$ in millions, except per share data)

Company	Share Price 03/31/2017	% of 52 Wk High	Market Capitalization	Enterprise Value	Valuation Multiples			PE Multiples			LTM Operating Margins			Net Debt/EBITDA	
					TEV/Total Revenue	TEV/EBITDA	TEV/EBIT	LTM P/E	CY17 P/E	CY18 P/E	Gross	EBIT	EBITDA		
Waste Management, Inc.	WM	\$72.92	98.7%	\$32,216	\$41,517	3.1x	11.3x	17.5x	27.5x	23.2x	21.3x	37.6%	17.7%	27.3%	2.5x
Republic Services, Inc.	RSG	\$62.81	98.4%	\$21,312	\$28,906	3.1x	10.9x	18.3x	35.3x	25.4x	23.1x	38.6%	16.9%	28.3%	2.9x
Waste Connections, Inc.	WCN	\$88.22	99.6%	\$15,503	\$18,991	5.6x	17.9x	31.8x	42.9x	30.8x	26.9x	42.0%	17.7%	31.4%	3.3x
Advanced Disposal Services, Inc.	ADSW	\$22.60	93.8%	\$1,591	\$3,913	2.8x	9.9x	28.7x	0.0x	NM	NM	38.4%	9.6%	28.1%	4.9x
Caseella Waste Systems, Inc.	CWST	\$14.11	99.2%	\$589	\$1,095	1.9x	10.2x	23.9x	NM	31.3x	23.8x	32.4%	8.1%	19.1%	4.7x
Meridian Waste Solutions, Inc.	MRDN	\$3.89	10.0%	\$27	\$71	2.6x	NM	NM	NM	NM	NM	39.4%	(39.9%)	(16.0%)	(8.1x)
Mean				\$11,940	\$15,749	3.2x	12.0x	24.0x	26.4x	27.7x	23.8x	38.1%	5.0%	19.7%	1.7x
Median				\$8,747	\$11,452	2.9x	10.9x	23.9x	31.4x	28.1x	23.4x	38.5%	13.2%	27.7%	3.1x
High				\$32,216	\$41,517	5.6x	17.9x	31.8x	42.9x	31.3x	26.9x	42.0%	17.7%	31.4%	4.9x
Low				\$27	\$71	1.9x	9.9x	17.5x	0.0x	23.2x	21.3x	32.4%	-39.9%	-16.0%	-8.1x

Source: Capital IQ

Total Enterprise Value (TEV) = Market Capitalization + Preferred Equity + Debt + Minority Interest - Cash

LTM = Last Twelve Months

Special Waste:

(\$ in millions, except per share data)

Company	Share Price 03/31/2017	% of 52 Wk High	Market Capitalization	Enterprise Value	Valuation Multiples			PE Multiples			LTM Operating Margins			Net Debt/EBITDA	
					TEV/Total Revenue	TEV/EBITDA	TEV/EBIT	LTM P/E	CY17 P/E	CY18 P/E	Gross	EBIT	EBITDA		
Stericycle, Inc.	SRCL	\$82.89	64.3%	\$7,066	\$9,983	2.8x	12.3x	17.8x	39.9x	19.6x	18.7x	44.6%	15.7%	22.8%	3.6x
Clean Harbors, Inc.	CLH	\$55.62	94.0%	\$3,186	\$4,512	1.6x	11.5x	43.0x	NM	79.8x	49.8x	29.8%	3.8%	14.2%	3.4x
Darling Ingredients Inc.	DAR	\$14.52	91.1%	\$2,391	\$4,130	1.2x	8.1x	18.8x	23.4x	NM	21.4x	22.3%	4.4%	12.9%	3.7x
US Ecology, Inc.	ECOL	\$46.85	86.8%	\$1,021	\$1,297	2.7x	11.8x	18.5x	29.8x	28.3x	25.5x	30.9%	14.7%	23.0%	2.5x
Sharps Compliance Corp.	SMED	\$4.76	75.6%	\$76	\$72	2.1x	NM	NM	NM	NM	NM	31.0%	(3.7%)	(0.4%)	31.4x
Perma-Fix Environmental Services, Inc.	PEFI	\$3.15	55.9%	\$37	\$46	0.9x	NM	NM	NM	NM	NM	15.0%	(10.0%)	(1.7%)	(9.9x)
Mean				\$2,296	\$3,340	1.9x	10.9x	24.5x	31.0x	42.6x	28.8x	28.9%	4.2%	11.8%	5.8x
Median				\$1,706	\$2,714	1.9x	11.7x	18.7x	29.8x	28.3x	23.4x	30.4%	4.1%	13.6%	3.5x
High				\$7,066	\$9,983	2.8x	12.3x	43.0x	39.9x	79.8x	49.8x	44.6%	15.7%	23.0%	31.4x
Low				\$37	\$46	0.9x	8.1x	17.8x	23.4x	19.6x	18.7x	15.0%	-10.0%	-1.7%	(9.9x)

Source: Capital IQ

Total Enterprise Value (TEV) = Market Capitalization + Preferred Equity + Debt + Minority Interest - Cash

LTM = Last Twelve Months

Industrial Services:

(\$ in millions, except per share data)

Company	Share Price 03/31/2017	% of 52 Wk High	Market Capitalization	Enterprise Value	Valuation Multiples			PE Multiples			LTM Operating Margins			Net Debt/EBITDA	
					TEV/Total Revenue	TEV/EBITDA	TEV/EBIT	LTM P/E	CY17 P/E	CY18 P/E	Gross	EBIT	EBITDA		
Covanta Holding Corporation	CVA	\$15.70	91.2%	\$2,060	\$4,611	2.7x	13.9x	36.9x	NM	NM	NM	31.8%	7.1%	19.3%	7.8x
CECO Environmental Corp.	CECE	\$10.51	70.6%	\$361	\$457	1.1x	8.2x	12.4x	NM	13.6x	12.0x	32.5%	8.8%	13.4%	1.7x
Heritage-Crystal Clean, Inc.	HCCI	\$13.70	81.8%	\$315	\$343	1.0x	10.7x	24.2x	52.7x	27.8x	25.1x	23.5%	4.1%	9.2%	0.8x
Cypress Energy Partners, L.P.	CELP	\$9.10	63.8%	\$108	\$196	0.7x	13.2x	21.6x	NM	32.6x	20.4x	11.9%	2.9%	4.9%	7.5x
Ecology & Environment, Inc.	EET	\$10.02	89.4%	\$43	\$33	0.3x	6.3x	8.0x	33.8x	NM	NM	44.7%	4.0%	5.1%	(2.3x)
Fuel Tech, Inc.	FTEK	\$1.02	54.8%	\$24	\$12	0.2x	NM	NM	NM	NM	NM	34.1%	(20.5%)	(14.2%)	1.5x
Quest Resource Holding Corporation	QRHC	\$2.35	61.2%	\$36	\$40	0.2x	NM	NM	NM	NM	NM	7.8%	(4.2%)	(2.0%)	(1.0x)
Industrial Services of America, Inc.	ISIA	\$1.67	49.7%	\$13	\$19	0.5x	NM	NM	NM	NM	NM	3.9%	(8.4%)	(2.1%)	(6.9x)
Mean				\$370	\$714	0.8x	10.5x	20.6x	43.2x	24.6x	19.2x	23.8%	-0.8%	4.2%	1.1x
Median				\$76	\$118	0.6x	10.7x	21.6x	43.2x	27.8x	20.4x	27.7%	3.5%	5.0%	1.2x
High				\$2,060	\$4,611	2.7x	13.9x	36.9x	52.7x	32.6x	25.1x	44.7%	8.8%	19.3%	7.8x
Low				\$13	\$12	0.2x	6.3x	8.0x	33.8x	13.6x	12.0x	3.9%	-20.5%	-14.2%	(6.9x)

Source: Capital IQ

Total Enterprise Value (TEV) = Market Capitalization + Preferred Equity + Debt + Minority Interest - Cash

LTM = Last Twelve Months





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Select Mergers and Acquisitions & Capital Raising News

❖ **Bibby Financial Services Provides \$3.5M in Financing to Canadian Waste Management and Industrial Services Company**

March 1, 2017 – Bibby Financial Services Canada (BFS) provided a \$3.5 million confidential line of financing to a Canadian waste management and industrial services company. The funds will allow the company to refinance existing lines of credit and support its day-to-day needs managing a fleet of more than 65 trucks across several branch locations in Canada. This is the second waste management and environmental cleanup business BFS has funded in the past six months, continuing a trend of recent investments in the industry. The industrial waste management company serves businesses in multiple industries including airports, garages, oil plants, refineries and other manufacturing companies. The company has nearly a dozen different types of vehicles and serves clients located throughout provinces in Atlantic Canada – operating 24 hours a day, seven days a week. BFS leveraged its international network, including insights from Bibby Transportation Finance colleagues, to create an invoice factoring solution that would support the company's business strategies today and in the future. The confidential factoring facility will use current invoices to advance the funding needed to pay short-term obligations, maintain the company's fleet of service vehicles and support back office needs with BFS's seamless invoicing and collection services. BFS expects investments in the recycling, waste management and environmental cleanup sectors will continue as the demand for remediation services grows and more companies seek out alternative financing to overcome changes in the market.

❖ **Santek Acquires Bates Sanitation, Inc. and Major Waste Services**

March 3, 2017 – Santek Waste Services, LLC has acquired Bates Sanitation, Inc. and Major Waste Services, adding to its list of recent acquisitions in the North Atlanta and Houston markets. The acquisitions, which went into effect on March 1, include all of Bates' residential customers in Cherokee County, Georgia, and all of Major Waste's residential customers in Montgomery County, Texas, and San Jacinto County, Texas.

❖ **BioHiTech Global Acquires 17.2% Equity Interest in Entsorga West Virginia**

March 30, 2017 – BioHiTech Global, Inc., a Chestnut Ridge, New York-based green technology company that creates innovative data-driven solutions for the disposal of food waste, has acquired a 17.2 percent equity interest in Entsorga West Virginia, the owner of the nation's first mechanical biological treatment (MBT) municipal solid waste (MSW) resource recovery facility. BioHiTech sold a series of convertible notes to fund the acquisition, which was made in exchange for a cash payment of \$1.034 million, and has the option of acquiring an additional 22.8 percent for approximately \$1.4 million. The new facility, which utilizes a patented process developed by Italian engineering firm Entsorgafin S.p.A. and is expected to result in a greenhouse gas emission reduction of 28,000 tons per year of carbon dioxide, is currently under construction in Martinsburg, West Virginia, and is expected to begin commissioning in late 2017. Once complete, the facility will receive MSW through a 10-year contract with a regional waste hauler, and about 40 to 50 percent of the MSW will be converted into a clean-burning, Environmental Protection Agency-approved alternative fuel through the patented MBT process. Additionally, Entsorga West Virginia also entered into a 10-year contract for the sale of SRF with a privately held company in West Virginia that intends to use the SRF as an approved supplement to fossil fuels in cement production. Earlier this year, BioHiTech launched BioHiTech Cirrus 2.2, the second generation of its mobile app that includes features that deliver improved information accessibility and transparency into food waste creation, allowing users to identify inefficiencies and improve operating margins in real-time. In addition to the new app, the company has created BioHiTech Alto, what the company says is the first intelligent "chatbot" in the waste industry. BioHiTech Alto is an interactive industrial communication technology that allows users to communicate with industrial equipment in real-time.

❖ **RiverRoad Waste Solutions Acquires Owner CharterHouse Equity Partners**

March 30, 2017 – RiverRoad Waste Solutions Inc. has completed a management buyout from owner CharterHouse Equity Partners, which will enable the company to enhance its position as a leader in the waste and recycling sector. Following the acquisition, RiverRoad plans to leverage its strong market positioning, reputation and track record working with leading brands nationwide. The company also plans on increasing adoption of myRoad, its market-leading digital platform for waste and recycling.

Select Industry News

❖ **Teamsters and Sims Municipal Recycling Reach Unionization Agreement**

March 3, 2017 – Teamsters Local 210 reached an agreement with Sims Municipal Recycling on an expedited path to union recognition at its Sunset Park facility in Brooklyn, New York. The signed agreement set an election for Friday and committed Sims to remain neutral. The agreement will be enforced by an independent arbitrator. Next, the workers will develop their contract demands and, with union negotiators, begin talks with Sims management on a collective bargaining agreement. The union also plans to set up an interim grievance procedure to protect workers in any disciplinary action. According to a Daily News report, wages at the facility start at \$14 and can go up to more than \$20 with special skills.



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❖ **Morrigo Equipment Claims the Guam Solid Waste Authority is Hoarding Cash**

March 6, 2017 – Morrigo Equipment is claiming that the Guam Solid Waste Authority is hoarding \$10 million that it does not plan to use for solid waste-related projects. Guam Solid Waste Authority has stated that it wants to purchase new trash trucks, but refuses to accept Morrigo's bid for trash trucks with a standard cab design because it wants to purchase cab-forward trucks only. A ruling in the Superior Court of Guam states that the Guam Solid Waste Authority must consider purchasing Morrigo's standard cab trucks.

❖ **Ascent Recycling Faces Code Violations, Given Extension to Clear Waste from Property**

March 6, 2017 – Ascent Recycling in San Antonio is currently in violation of several city codes. The company's massive waste buildup is causing many dust and trash issues for neighbors, who are speaking out about the ongoing problems. Ascent has been cited for property maintenance issues in the past and recently received another extension by a local judge to remove the last of the waste from its property.

❖ **California Makes First Recycling Fraud Border Bust of 2017**

March 7, 2017 – The California Department of Resources Recycling and Recovery (CalRecycle) announced the arrest of a California truck driver suspected of felony recycling fraud, attempted grand theft and conspiracy. Agents with the California Department of Justice's (CDOJ) Recycling Fraud Team apprehended the truck driver as he attempted to smuggle nearly 7,000 pounds of used beverage containers from Phoenix, Arizona, to the Los Angeles area with the intent to defraud the California Redemption Value Program. On January 10, agents at the California Department of Food and Agriculture (CDFA) border checkpoint in Blythe, California, inspected a tractor-trailer driven by Eduardo Herrera, 27. Herrera failed to produce a bill of lading and claimed his 53-foot trailer was empty. Agents inspected Herrera's trailer and discovered bags filled with used beverage containers. They immediately requested assistance from CDOJ's Recycling Fraud Team. Herrera failed to produce an Imported Materials Report, required by law when transporting used beverage containers into California. Agents placed Herrera under arrest and impounded his tractor-trailer. The suspect told CDOJ agents he picked up the trailer at a lot in Phoenix after a "buddy" requested its transport to California. Herrera said he was planning to deliver the load to a gated yard in the Los Angeles area, but he said the exact location of the yard was still unknown to him at that time. A subsequent examination of the trailer revealed 5,563 pounds of aluminum used beverage containers with a potential CRV value of \$8,734 and 1,200 pounds of plastic used beverage containers with a potential CRV value of \$1,440. The case is now in the hands of the Riverside County District Attorney's Office to determine formal charges.

❖ **Springfield, Illinois Requires Waste Haulers to Report Fly Dumping**

March 8, 2017 – Under new rules issued by the City of Springfield, Illinois, Lake Area Disposal, Waste Management and Republic Services are required to report fly dumping. Since the rules went into effect in September 2016, the city's public works department has received approximately 30 calls from the haulers about discarded large items that need to be picked up.

❖ **Las Vegas City Council Pressured to Hold Off on Extending Franchise Agreement with Republic Services**

March 8, 2017 – With legislation being considered that would affect how solid waste agreements are negotiated in Nevada, two state senators and a coalition of waste haulers and recyclers are urging the Las Vegas City Council to delay an April 5 vote on changes to its solid waste and recycling ordinance to allow for no-sort, single-stream recycling. The city has been negotiating an extension with Republic Services. Its current franchise agreement is due to expire in 2021.

❖ **Proposed Legislation in Nevada Seeks to "Level Playing Field" in Waste Industry**

March 21, 2017 – Pushed by four regional haulers, several Nevada legislators have introduced a bill aimed at allowing companies to more fairly compete in the solid waste industry. Las Vegas-based A Track Out Solution, Las Vegas-based Lunas Construction Clean-Up, Reno-based Nevada Recycling And Salvage, and Reno-based Green Solutions Recycling hired Reno-based Argentum Partners to pursue the legislation. While not directly named, the bill seems aimed squarely at Republic Services, which has been at the center of criticism and lawsuits in recent months in the state. In December, Las Vegas-based attorneys James Adams and Puoy Premrsirut filed a class action lawsuit against Republic Services claiming the company is overcharging Clark County owners by placing multiple \$60 liens on homes for overdue trash bills. That suit came less than a month after four business owners filed complaints with the cities of Henderson, Las Vegas and North Las Vegas as well as Clark County about the firm, saying it is abusing its franchise agreements with the cities and the county to block out competitors.

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Sources include Waste360, Waste Dive and various publicly available news publications. Additional information is available upon request.

