ENR

THE TOP 200
ENVIRONMENTAL FIRMS

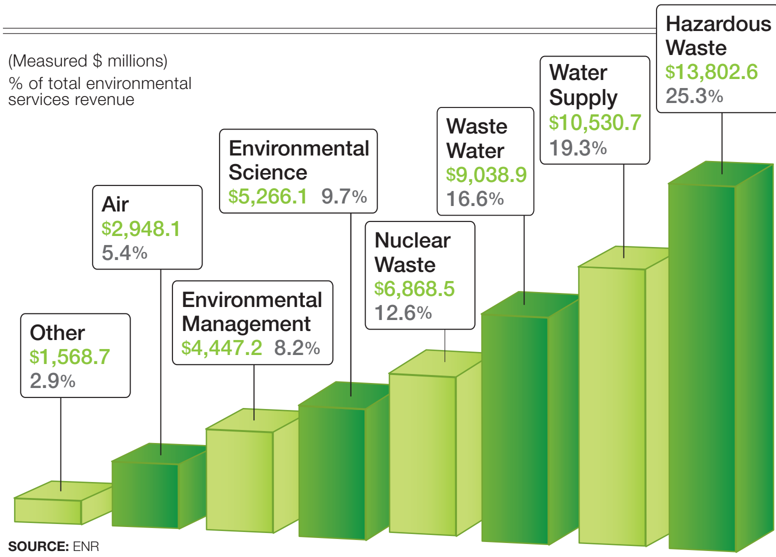
GROUND UP Work on the $150-million Kailua tunnel influent pump station in 2016 is part of Honolulu's federally mandated $5.2-billion wastewater treatment upgrade.

PHOTO COURTESY OF BROWN & CALDWELL

Firms Dig Deeper for Growth

The Top 200 weigh market ups and downs in the Trump era and amid shifting global catalysts By Debra K. Rubin and Mary B. Powers

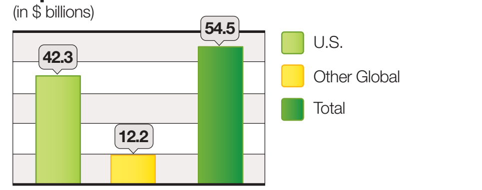
Looking at Markets



SOURCE: ENR

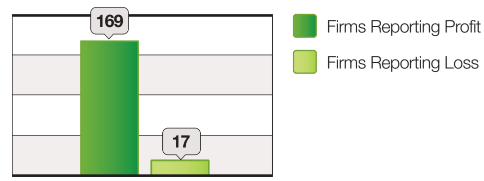
Top 200 Environmental Firms' Revenue

(in $ billions)



* Not all firms provided domestic/international breakdowns.

Number of Firms Reporting Profitability Change



Comparing the Past Decade's Top 200 Firm Revenue

(in $ billions) **SOURCE:** ENR

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
$46.3	$53.0	$48.3	$51.3	$54.4	$51.7	$53.7	$51.4	$53.4	$54.5

The Top 200 Environmental Firms held their own in 2016, even as the election of Donald Trump, an uncertain post-Brexit Europe and still-sluggish oil prices loomed over the environmental marketplace.

Spurred by continuing cleanup mandates and some improved economic signals before Trump was officially installed as president, list participants in their overall revenue last year managed a 2% hike, to $54.47 billion—a total not seen in five years. The 2017 Top 200 firms' domestic U.S. revenue growth of 2.4% dipped from last year's 3.8% rate. But in a reversal, non-U.S.-generated revenue in 2016 rose 2.5%, to $12.2 billion, after declining more than 10% for participants reporting 2015 results.

"Globally, we are seeing an increase in requests for environmental services, especially in emerging economies, driven by water availability, water quality, biodiversity and resiliency," says HDR Chairman and CEO George Little, who steps down at year-end.

"We're hearing a lot about building up and renewing America's aging infrastructure. In addition to roads and bridges, water infrastructure is getting federal attention, and we're optimistic that many critical investments will receive bipartisan support," adds Craig Goehring, chairman and CEO of Brown & Caldwell. "At the same time, there is a lot of uncertainty surrounding the future of environmental regulation at the federal level. Changes from the [Trump] administration could impact project funding and schedules." John Braccio, CEO of consultant Wright-Pierce, voices concern "that the new administration may turn back regulations too far," with uncertain effects on future work and market growth.

"There is a growing appreciation that water solutions will be different from in the past. We are at a tipping point and need to challenge legacy issues with innovative solutions to bring new norms to the future. Water is too precious now."

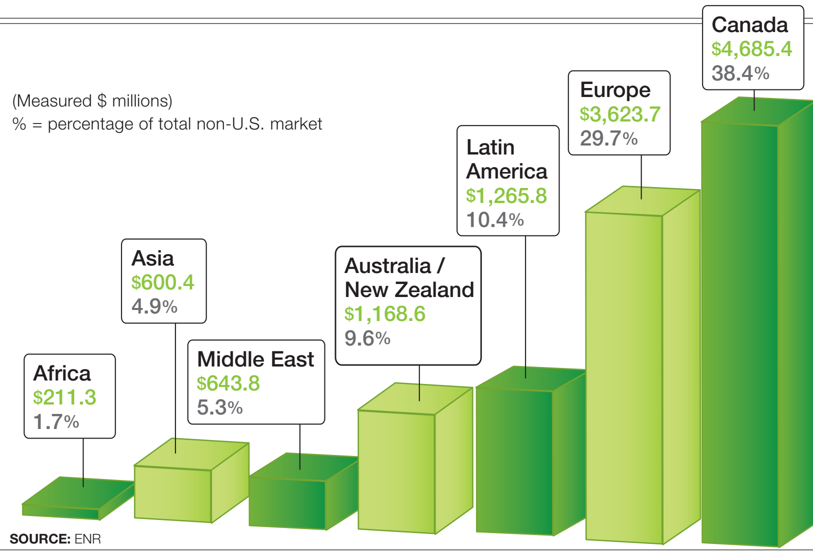
Bryan Harvey, Vice President and Managing Director, CH2M International Water Business

Overall cautiousness last year likely slowed the pace of municipal decision-making, with Top 200 revenue down 1.1% among those reporting work for state and local governments. Revenue growth for water-supply and treatment facility design and construction also was off in 2016, by more than 10%, but that shows every sign of reversing this year and in the future. A recent survey of 340 U.S. water utilities predicted investments of $8.3 billion in smart infrastructure over the next 10 years to improve efficiency. "We expect some stagnation in U.S. federal environmental services contracts under the current administration, while municipal spending on urban-resiliency and sustainable-city programs continue to be on the rise," says a spokesperson for consultant Louis Berger.

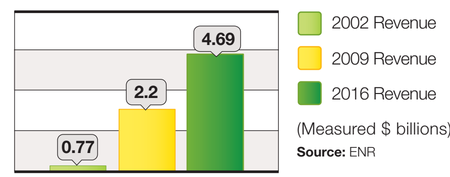
Stepping Up

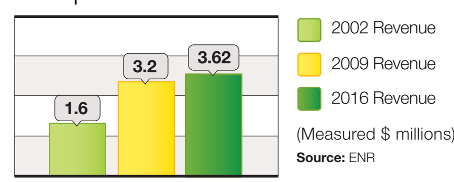
Whether reacting to need, political realities or both, states are stepping up to the plate. "California has incredibly conservative environmental regulations, probably a world leader," says Hirad Emadi, president of construction manager Innovative Construction

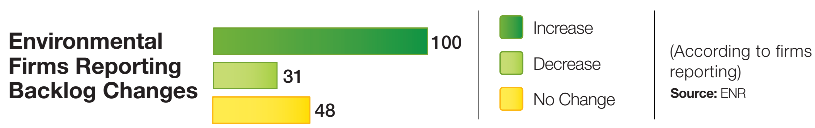
Looking at Global Regions



Regional Changes







Solutions, Santa Ana. "We don't see Trump's policies affecting us one bit." He notes the firm's $50-million project to clean up contaminated soil for a large defense contractor on a 996-acre site in Santa Clarita.

Motivated by a slow rise in oil prices, the faster-climbing Dow industrial average and more optimism, the private sector expanded as an environmental services client. Top 200 firms reported revenue up more than 2%, to nearly $25 billion, this year after almost no sector growth on last year's list.

"Overall, we see our global markets as stable and/or recovering in calendar year 2017 in terms of the economic health of the clients we are serving," says Keryn James, global CEO of London-based consultant ERM, which generated 97% of its revenue in the private sector. "Stock markets are at all-time highs, the cost of working capital and unemployment are near all time lows, and commodity prices—energy, base materials and platinum—have recovered at least 30% over the past 12 months."

But other Top 200 firm executives voice concern that their corporate customers will be negatively affected by the Trump administration's environmental compliance reversals, which could be too rapid or too severe. "Although the new administration in Washington has made a number of changes to environmental policy, we have found that our clients dislike making

"The new administration in Washington has made a number of changes to environmental policy, but ... our clients dislike making large procedural swings in their business operations."

Todd Perry, Principal, PPM Consultants

large procedural swings in their business operations. Because they already invested money to meet more stringent environmental standards under the Obama administration, it doesn't make sense for them to abandon those investments." says Todd Perry, principal of PPM Consultants. "They also need to be prepared for the next administration to come, in case it resumes some of the former environmental standards."

Market Watch

The Top 200's largest market was still waste cleanup, although the proportion and growth rate of 2016 revenue for hazardous-waste remediation and management both fell as projects complete. But continued mothballing of nuclear power plants, spurring needed decontamination and demolition, may have been a factor in that sector's 19% revenue bump.

At federal nuclear facilities, however, the looming administration change slowed activity, says one Top 200 market expert. In the U.S. Dept. of Energy, "there has been a slowdown of the procurement cycle for the entire nuclear complex," says Dyan Foss, nuclear-sector managing director at CH2M. She says contract bids at DOE's key Hanford, Savannah River and Los Alamos complexes have not been released. "We thought we would see them three months ago," says Foss, noting that, at the Hanford nuclear complex in Washington

The Top Firms by Market Segment

HAZARDOUS WASTE

Top 20 Revenue: $9.45 Billion
Share of Total Sector Revenue: 68.4%

2017	2016	** indicates firm did not rank	$ MIL.
1	1	CLEAN HARBORS INC.	2,371.5
2	2	AECOM	1,036.0
3	3	VEOLIA NORTH AMERICA	1,005.5
4	5	CH2M	810.9
5	7	BECHTEL	500.0
6	8	AMEC FOSTER WHEELER	451.4
7	4	ARCADIS NV	408.7
8	10	CB&I	393.7
9	9	TRADEBE ENVIRONMENTAL SERVICES	377.7
10	**	STANTEC INC.	249.3
11	**	GOLDER ASSOCIATES	213.4
12	13	TETRA TECH INC.	209.5
13	11	GHD	206.9
14	14	NATIONAL RESPONSE CORP.	205.2
15	12	PARSONS CORP.	194.9
16	15	ERM	181.2
17	20	CDM SMITH	164.4
18	**	SCS ENGINEERS	157.3
19	**	SEVENSON ENVIR. SERVICES INC.	156.6
20	19	GEOSYNTEC CONSULTANTS INC.	153.5

WATER TREAT. / SUPPLY

Top 20 Revenue: $8.13 Billion
Share of Total Sector Revenue: 77.2%

2017	2016	** indicates firm did not rank	$ MIL.
1	2	TETRA TECH INC.	1,257.1
2	5	AECOM	911.7
3	3	SUEZ NORTH AMERICA	891.7
4	1	BECHTEL	789.5
5	4	CH2M	552.9
6	13	VEOLIA NORTH AMERICA	464.1
7	10	GARNEY HOLDING CO.	412.4
8	17	STANTEC INC.	411.3
9	9	KIEWIT CORP.	352.3
10	11	CDM SMITH	305.3
11	14	BLACK & VEATCH	288.0
12	7	THE WALSH GROUP LTD	214.2
13	15	LAYNE CHRISTENSEN CO.	193.8
14	12	ARCADIS NV	175.1
15	18	HDR	160.2
16	**	ALBERICI-FLINTCO	159.6
17	**	BARNARD CONSTRUCTION CO INC.	158.0
18	16	PCL CONSTRUCTION ENTERPRISES INC.	149.7
19	**	MOTT MACDONALD GROUP	148.5
20	**	PC CONSTRUCTION	133.2

WASTEWATER TREATMENT

Top 20 Revenue: $5.79 Billion
Share of Total Sector Revenue: 64.1%

2017	2016	** indicates firm did not rank	$ MIL.
1	3	CH2M	704.4
2	1	VEOLIA NORTH AMERICA	541.4
3	**	AEGION CORP.	483.4
4	9	THE WALSH GROUP LTD	397.8
5	5	BLACK & VEATCH	379.2
6	4	CDM SMITH	377.6
7	**	GREAT LAKES DREDGE & DOCK CORP.	376.0
8	6	SUEZ NORTH AMERICA	356.7
9	10	HDR	240.4
10	12	LYLES CONSTRUCTION GROUP	220.3
11	**	MOTT MACDONALD GROUP	204.6
12	8	LAYNE CHRISTENSEN CO.	197.0
13	13	BROWN AND CALDWELL	188.2
14	18	BOWEN	180.1
15	11	GARNEY HOLDING CO.	176.8
16	14	PC CONSTRUCTION	173.0
17	15	KIEWIT CORP.	162.2
18	16	CAROLLO ENGINEERS INC.	151.0
19	19	HAZEN AND SAWYER	150.4
20	17	CLEAN HARBORS INC.	131.8

AIR QUALITY

Top 10 Revenue: $2.22 Billion
Share of Total Sector Revenue: 75.3%

2017	2016	** indicates firm did not rank	$ MIL.
1	4	MCCARTHY HOLDINGS INC.	466.1
2	1	VEOLIA NORTH AMERICA	464.1
3	3	AECOM	414.4
4	2	BECHTEL	315.8
5	**	ICF INTERNATIONAL	147.2
6	8	TRINITY CONSULTANTS	90.0
7	**	BOWEN	87.1
8	**	LEIDOS	82.2
9	9	PARSONS CORP.	77.4
10	6	BLACK & VEATCH	75.8

NUCLEAR WASTE

Top 10 Revenue: $6.5 Billion
Share of Total Sector Revenue: 95.4%

2017	2016	** indicates firm did not rank	$ MIL.
1	1	FLUOR CORP.	1,676.1
2	2	CH2M	1,642.3
3	4	AECOM	911.7
4	3	BECHTEL	868.5
5	5	BATTELLES	677.8
6	**	LEIDOS	418.6
7	6	CB&I	111.9
8	9	PARSONS CORP.	111.8
9	**	NAVARRO RESEARCH AND ENGIN. INC.	86.8
10	**	MOTT MACDONALD GROUP	49.3

ENVIRON. MANAGEMENT

Top 10 Revenue: $4.45 Billion
Share of Total Sector Revenue: 55.2%

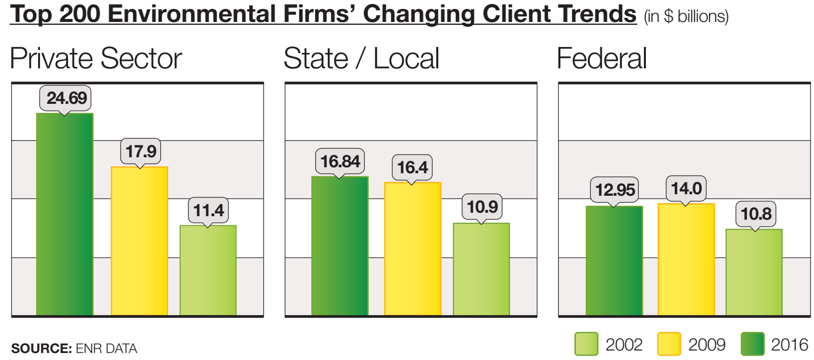
2017	2016	** indicates firm did not rank	$ MIL.
1	1	TETRA TECH INC.	523.8
2	2	CH2M	385.0
3	3	ERM	309.0
4	4	ANTEA GROUP	252.7
5	6	AECOM	248.6
6	7	GOLDER ASSOCIATES	247.1
7	5	ARCADIS NV	175.1
8	**	BUREAU VERITAS	107.1
9	**	ATC GROUP SERVICES LLC	103.0
10	**	CLEAN EARTH INC.	102.2

ENVIRONMENTAL SCIENCE

Top 10 Revenue: $3.37 Billion
Share of Total Sector Revenue: 64%

2017	2016	** indicates firm did not rank	$ MIL.
1	3	TETRA TECH INC.	628.6
2	1	AECOM	497.3
3	2	HDR	480.7
4	5	STANTEC INC.	423.8
5	4	ERM	301.9
6	6	WEEKS MARINE INC.	244.4
7	7	AMEC FOSTER WHEELER	213.0
8	9	ICF INTERNATIONAL	208.3
9	**	BATTELLE	203.0
10	8	GOLDER ASSOCIATES	171.8

Top 200 Environmental Firms' Changing Client Trends (in $ billions)



SOURCE: ENR DATA

The Top Firms by Type of Client

PRIVATE

Top 10 Revenue: $12.40 Billion
Share of Total Sector Revenue: 50.2%

2017	2016	** indicates firm did not rank	$ MIL.
1	1	CLEAN HARBORS INC.	2,239.8
2	2	VEOLIA NORTH AMERICA	1,985.3
3	4	AECOM	1,409.0
4	3	BECHTEL	1,289.6
5	5	TETRA TECH INC.	1,257.1
6	**	STANTEC INC.	1,034.5
7	6	CH2M	954.3
8	8	ERM	864.9
9	**	GOLDER ASSOCIATES	706.1
10	7	ARCADIS NV	661.6

STATE / LOCAL

Top 10 Revenue: $7.63 Billion
Share of Total Sector Revenue: 45.3%

2017	2016	** indicates firm did not rank	$ MIL.
1	3	CH2M	1,527.6
2	2	SUEZ NORTH AMERICA	1,197.4
3	1	AECOM	1,077.4
4	9	TETRA TECH INC.	654.8
5	5	THE WALSH GROUP LTD	581.3
6	6	CDM SMITH	574.5
7	7	VEOLIA NORTH AMERICA	541.4
8	**	BLACK & VEATCH	500.2
9	8	GARNEY HGOLDING CO.	494.9
10	10	AEGION CORP.	478.6

FEDERAL

Top 10 Revenue: $9.45 Billion
Share of Total Sector Revenue: 73%

2017	2016	** indicates firm did not rank	$ MIL.
1	3	FLUOR CORP.	1,676.1
2	2	AECOM	1,657.6
3	1	CH2M	1,613.6
4	4	BECHTEL	1,342.2
5	5	BATTELLE	905.7
6	6	TETRA TECH INC.	707.1
7	**	LEIDOS	639.6
8	8	CB&I	364.3
9	9	AMEC FOSTER WHEELER	304.8
10	**	GREAT LAKES DREDGE & DOCK CORP.	239.3

The Top Firms by Type of Work

CONSTRUCT / REMEDIATION

Top 10 Revenue: $7.22 Billion
Share of Total Sector Revenue: 42.8%

2017	2016	** indicates firm did not rank	$ MIL.
1	1	BECHTEL	1,447.5
2	2	FLUOR CORP.	1,342.5
3	3	AECOM	812.2
4	4	KIEWIT CORP.	614.8
5	7	GARNEY HOLDING CO.	583.3
6	**	CB&I	500.4
7	5	THE WALSH GROUP LTD	489.6
8	**	GREAT LAKES DREDGE & DOCK CORP.	488.3
9	9	AEGION CORP.	483.4
10	**	STANTEC INC.	461.2

ENGINEERING / DESIGN

Top 10 Revenue: $5.92 Billion
Share of Total Sector Revenue: 61.5%

2017	2016	** indicates firm did not rank	$ MIL.
1	4	AECOM	1,728.0
2	1	CH2M	1,269.6
3	2	BECHTEL	736.9
4	5	TETRA TECH INC.	654.8
5	**	STANTEC INC.	610.7
6	**	MOTT MACDONALD GROUP	508.9
7	**	GOLDER ASSOCIATES	425.3
8	9	HDR	400.6
9	8	BLACK & VEATCH	397.6
10	10	RAMBOLL ENVIRON INC.	363.6

CONSULTING / STUDIES

Top 10 Revenue: $7.2 Billion
Share of Total Sector Revenue: 61.1%

2017	2016	** indicates firm did not rank	$ MIL.
1	2	TETRA TECH INC.	1,911.9
2	1	CH2M	1,843.0
3	3	AECOM	683.8
4	4	ERM	581.6
5	5	ARCADIS NV	457.3
6	6	AMEC FOSTER WHEELER	440.8
7	7	ICF INTERNATIONAL	399.0
8	8	HDR	360.5
9	9	GOLDER ASSOCIATES	306.8
10	**	WSP	216.1

CM / PM

Top 10 Revenue: $3.23 Billion
Share of Total Sector Revenue: 68%

2017		$ MIL.
1	CH2M	978.8
2	AECOM	899.2
3	MCCARTHY HOLDINGS INC.	542.0
4	BECHTEL	447.4
5	VEOLIA NORTH AMERICA	257.8
6	BATTELLE	199.1
7	CLEAN EARTH INC.	166.9
8	HDR	150.2
9	AMEC FOSTER WHEELER	142.4
10	THE WALSH GROUP LTD	122.4

state, there is $6 billion to $7 billion of environmental work still to be procured.

While the Top 200 firms worry about U.S. Environmental Protection Agency Administrator Scott Pruitt's moves to make program and regulatory cuts and changes, the newly installed chief has promised to continue and even expedite the federal Superfund cleanup program. But industry observers are following the numbers. "The Superfund market is too early to call," says Leslie Shoemaker, executive vice president of Tetra Tech and president of its water, environment and infrastructure business. "The FY 2018 budget will show whether it is a material driver."

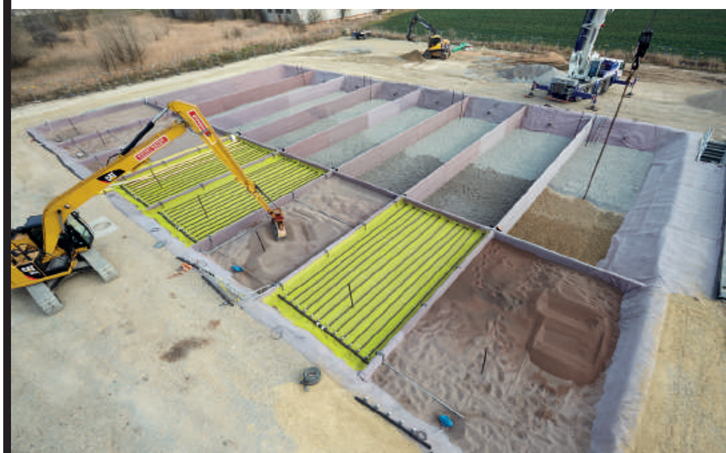
She and others are also watching proposed federal changes to coal-ash disposal rules. "But it's harder and more complex to roll back rules that have been on the books, adopted and pushed down to states," says Shoemaker. Legal intervention also may play a key rule in how and whether cleanups continue. On Aug. 4, a Nashville, Tenn., federal court ruled against utility TVA over coal-ash leaks at its Gallatin power plant, ordering it to excavate and move the waste to a lined disposal site from a leaking, unlined pit.

List Shifts

Market nuances and economic pressures brought additional changes to 2017's Top 200 list. Stantec's acquisition of privately held water giant MWH last year moved the new parent into the ranking's Top 10 for the first time. Also missing from this year's list is Atkins, which did not file, pending its $2.6-billion purchase by SNC-Lavalin Group; however, that buy should significantly boost the Canadian firm's environmental footprint and list ranking next year. And, after years of non-participation in the Top 200 ranking, Jacobs Engineering will occupy a leading position on the 2018 list, assuming the successful conclusion of its agreement to buy Top 200

Top 200 Company Close-Up | By Mary B. Powers

Bauer Takes Green Worldwide



Twenty-five years ago, German contracting and industrial giant Bauer AG, based near Munich, formed a corporate unit to contend with contamination on its global construction sites. Today, that unit is thriving, serving its municipal and industrial clients in the areas of remediation, waste management, water-wastewater treatment and natural-resource protection. Making its debut on this year's Top 200 list, Bauer Resources GmbH **(No.49)** reported about $232 million in global revenue.

The company has five soil-treatment centers in Germany, its largest market, generating 64% of total revenue. Its clients include former U.S. and NATO installations as well as automakers BMW and Audi. Currently, Bauer is remediating more than 30 military sites, says Dennis Alexandersen, international business development manager. In Leuna, a center of chemicals production in eastern Germany, Bauer says it is developing the world's first industrial-scale biovertical filter for groundwater remediation (see photo). "Featuring nature-like biological remediation technology, the biofilter system offers a more effective, environmentally friendlier and cheaper alternative to conventional … treatment technologies," Stefanie Apelt, site manager at Leuna, told visiting officials earlier this year.

The spin-off's business has expanded worldwide. For example, the Middle East last year generated 18% of its revenue, primarily to support oil and gas clients as prices inch back up. The firm's most well-known project in the region involves the Nimr oil field in Oman, Alexandersen notes; there, extracting oil requires about 10 barrels of water for every barrel of oil produced. Bauer designed, built and financed a 360-acre wetland oasis—now one of the world's largest natural filtration projects—to treat hydrocarbon-contaminated water. Microorganisms and algae reduce contamination to 0.5 ppm from 300 ppm—almost non-detectable, says Alexandersen. Until 2031, Bauer will operate the site, which processes 115,000 cu meters of brackish water a day. Further, the German firm has teamed with U.S. metals giant Alcoa to commercialize similar natural water-treatment technology at facilities in Texas and Pennsylvania. The company's Americas work, which includes water supply to breweries, generated 7% of last year's revenue. In Africa, which accounted for about 5% of revenue, Bauer has built solar-based defluoridation plants in Ghana to reduce naturally occurring fluoride in drinking water.

With global uncertainty, the company's backlog fell 6% in 2016 and its parent's stock price dropped 33% by year-end, according to its annual report. But the environmental unit sees an increased need for soil and groundwater remediation in Europe and potential to grow its small footprint in Asia. ■

leader CH2M, announced on Aug. 2 (see story, p. 8).

Another new name could appear on next year's list if U.K.-based Wood Group in 2017 completes its nearly $3-billion acquisition of No. 10-ranked Amec Foster Wheeler. At least 65 Top 200 firms on this year's list said they were considering a merger or acquisition in the next 12 to 24 months.

Among those firms ranked for the first time is Bauer Resources GmbH, the water and environmental unit of German industrial-construction giant Bauer AG (see story, left).

Go With the Flows

The growing importance of water as a global population and business resource should accelerate growth for Top 200 designers, builders and others that provide needed supply and management services. Revenue for firms in the wastewater treatment sector rose nearly 13.7% last year; it now makes up nearly 17% of the list total.

After more than a decade, New York City's Newtown Creek wastewater treatment plant last year completed its final phase of a $5-billion expansion to meet a state consent order and raise wet-weather processing capacity, to 720 million from 310 gallons per day. On the other coast, San Francisco got going last year on a billion-dollar effort to modernize its 60-year-old treatment plant, one of the first in the country to use the Cambi thermal hydrolysis process to boost processing efficiency for biosolids and biogas in a tight space. Design firm KCI, active in the design of plant upgrades to meet the strict nutrient reductions set for the Chesapeake Bay watershed, now sees its focus "shifting to failing infrastructure," says Chairman Terry F. Neimeyer.

"Population changes have affected cities by adding pressures to the already-aging infrastructure," says C. David Dickey Jr., executive vice president of the water business line at No. 1-ranked AECOM. "Cities with declining populations face the additional challenge of not having fiscal reserves or the ratepayer base to finance systemwide improvements." Samara Barend, firm vice president and North America director of public-private partnerships, thinks states should use more private activity bonds. "Any upcoming federal infrastructure bill should include a focus on PABs for water," she says.

But sector firms worry about aggressive price competition. "We had a tremendous year in 2016 and … there are many opportunities available," says Jim Voltz, president of wastewater-plant builder American Contracting & Environmental Services Inc. "But there are still way too many contractors who are willing to

PHOTO COURTESY OF BAUER RESOURCES GMBH

The Top 30 All-Environmental Firms

FIRMS REPORTING 100% OF TOTAL GROSS REVENUE IN ENVIRONMENTAL SERVICES

RANK 2017	2016	FIRM	REVENUE $ MIL.
1	1	VEOLIA NORTH AMERICA	2,578.3
2	2	SUEZ NORTH AMERICA	1,273.8
3	3	ERM	888.0
4	5	GARNEY HOLDING CO.	589.2
5	6	BROWN AND CALDWELL	362.0
6	7	CAROLLO ENGINEERS INC.	247.6
7	**	BAUER RESOURCES GMBH	231.7
8	8	NATIONAL RESPONSE CORP.	228.0
9	9	HAZEN AND SAWYER	218.0
10	10	CLEAN EARTH INC.	189.0
11	15	ULLIMAN SCHUTTE CONSTRUCTION LLC	167.3
12	12	SCS ENGINEERS	163.9
13	14	APEX COS. LLC	150.4
14	**	EA ENGIN., SCIENCE, AND TECH. INC.	133.4
15	17	TRINITY CONSULTANTS	116.9
16	22	MAX FOOTE CONSTRUCTION CO. LLC	107.9
17	29	C.H. NICKERSON & CO. INC.	107.4
18	16	ECOLOGY AND ENVIRONMENT INC.	105.9
19	18	PAL ENVIRONMENTAL SAFETY CORP.	100.0
20	25	KENNEDY JENKS CONSULTANTS INC	97.8
21	23	ANCHOR QEA LC	90.7
22	20	ENVIRONMENTAL RESTORATION LLC	90.5
23	24	GROUNDWATER & ENVIR. .SVS. INC.	87.5
24	**	AMERICAN INTEGRATED SERVICES INC.	87.5
25	21	SWCA ENVIRONMENTAL CONSULTANTS	85.6
26	26	ROUX ASSOCIATES INC.	84.9
27	**	DUDEK	83.2
28	19	USA ENVIRONMENT LP	82.0
29	**	ENVIRONMENTAL SCIENCE ASSOCIATES	80.9
30	**	CHARTER CONTRACTING CO.	78.5

The Top 20 Firms Working in Non-U.S. Locations

RANK 2017	2016	FIRM	REVENUE $ MIL.
1	2	CH2M	1,568.6
2	1	BECHTEL	1,131.7
3	3	TETRA TECH INC.	1,047.6
4	**	AECOM	712.8
5	8	GOLDER ASSOCIATES	588.5
6	13	STANTEC INC.	573.3
7	5	CLEAN HARBORS INC.	527.0
8	10	WSP	426.8
9	**	MOTT MACDONALD GROUP	411.3
10	7	ERM	400.5
11	14	AMEC FOSTER WHEELER	345.9
12	16	ANTEA GROUP	330.0
13	9	ARCADIS NV	316.2
14	15	BLACK & VEATCH	303.4
15	6	VEOLIA NORTH AMERICA	283.6
16	11	FLUOR CORP.	277.7
17	12	TRADEBE ENVIRONMENTAL SERVICES	272.5
18	17	RAMBOLL ENVIRONMENTAL INC.	264.0
19	**	BARNARD CONSTRUCTION CO. INC.	220.8
20	**	BAUER RESOURCES GMBH	219.0

severely underbid the work and then underperform."

CH2M is advocating new infrastructure delivery models, such as its $190-million contract—finalized in May—to upgrade and manage deteriorating water-wastewater assets in North Miami Beach, says Brian Harvey, vice president and managing director of its international water business. Despite local controversies, he calls the approach "a unique contract that can be considered a new model for the water industry."

According to Harvey, "There is a growing appreciation that water solutions will be different from in the past. We are at a tipping point and need to challenge legacy issues with innovation. Water is too precious now." He cites analytics and data management that CH2M and others used to reduce risk on the $900-million Lee tunnel combined-sewer-overflow project under London's Thames River that was completed last year. "If we can manage the risk, we can draw funding." he says. "So, computing power is producing a new breed of engineers who are entrepreneurs." ■

With Gary Tulacz, Scott Blair, Cody Hall and Andrea Pinyan

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Total of Top 200 firms that boosted hiring in 2016. Thirty-two said they cut staff, and 53 reported no change.

How To Read the Top 200 List

Firms are ranked based on the % of their 2016 gross revenue from environmental services. Figures are in $ millions; percents are rounded and may not add up to 100. A company update is marked by number in red, with a detailed footnote on the side of each list page.

Two asterisks (**) indicate firms that were not ranked on the 2016 Top 200 list. An alphabetical listing of firms can be found on p. 58.

Hazardous/Solid Waste Chemical and industrial waste cleanup, management and/or disposal; asbestos and lead abatement; non-hazardous waste landfill and recycling facilities

Nuclear Waste Nuclear or radioactive materials remediation, storage or disposal.

Air Facility air-pollutant emissions; permitting and energy efficiency.

Water Municipal or industrial water-system supply and treatment.

Wastewater Treatment Municipal or industrial wastewater or stormwater sewers and treatment systems.

Environmental Management Compliance, due diligence, audits and environmental information technology.

Environmental Sciences Planning, EIS/EIRs, natural resources, wetlands, modeling

Other Environmental markets not included in the above category descriptions.

Clients: Work for these types of owners is shown as a % of environmental revenue:

Private corporations, utilities or other.

Federal U.S. agencies, military services or foreign governments.

State, county or municipal government entities.

Type of Firms: Based on the largest % of 2016 environmental revenue in categories described below. Multiple listings appear if the largest % is evenly split between two or more categories or is within 5%.

DES Engineering and/or design; **CSL** Consulting and/or studies; **CON** Construction, contracting and/or remediation; **CM-PM** Construction management and/or program management; **EQP** Equipment or device manufacture; **OPS** Contract operations; **R&D** Technology and/or research and development, **OTH** Services not already designated.

The Top 200 List

RANK 2017	RANK 2016	FIRM	2016 ENVIRONMENTAL REVENUE: TOTAL (IN $ MIL.)	% OF ALL FIRM REV.	% OF NON-U.S.	TYPE OF WORK: LARGEST % OF ENV. REVENUE	MARKETS (% OF ENVIRONMENTAL REVENUE): HAZARDOUS WASTE	NUCLEAR WASTE	AIR	WATER	WASTEWATER TRMT.	ENV. MANAGEMENT	ENV. SCIENCE	OTHER	CLIENTS (% OF ENV. REV.): FEDERAL	STATE/LOCAL	PRIVATE
1	1	**AECOM**, Los Angeles, Calif.	4,144.0	24	17	DES	25	22	10	22	2	6	12	1	40	26	34
2	2	**CH2M**, Englewood, Colo.	4,095.5	71	38	CSL	20	40	0	14	17	9	0	0	39	37	23
3	5	**CLEAN HARBORS INC.**, Norwell, Mass.	2,635.0	95	20	OTH/OPS	90	0	0	5	5	0	0	0	5	10	85
4	3	**BECHTEL**, San Francisco, Calif.	2,631.8	8	43	CON	19	33	12	30	3	0	0	3	51	0	49
5	6	**TETRA TECH INC.**, Pasadena, Calif.	2,619.0	97	40	CSL	8	0	0	48	0	20	24	0	27	25	48
6	4	**VEOLIA NORTH AMERICA**, Boston, Mass.	2,578.3	100	11	OPS/OTH	39	1	18	18	21	2	0	1	2	21	77
7	7	**FLUOR CORP.**, Irving, Texas	1,693.0	9	16	CON	0	99	1	0	0	0	0	0	99	0	1
8	10	**SUEZ NORTH AMERICA**, Paramus, N.J.	1,273.8	100	6	OPS	2	0	0	70	28	0	0	0	0	94	6
9	18	**STANTEC INC.**, Edmonton, Alberta, Canada[1]	1,246.4	41	46	DES	20	0	1	33	6	2	34	4	5	12	83
10	11	**AMEC FOSTER WHEELER**, Alpharetta, Ga.	1,054.7	15	33	CON/CSL	43	2	3	5	2	4	20	22	29	18	54
11	13	**HDR**, Omaha, Neb.	1,001.5	45	10	DES/CSL	7	0	3	16	24	2	48	0	17	42	41
12	8	**ARCADIS NV**, Amsterdam, Holland	973.0	26	32	CSL	42	0	0	18	11	18	11	0	8	24	68
13	15	**BATTELLE**, Columbus, Ohio	957.4	20	0	R&D	6	71	0	1	1	1	21	0	95	1	4
14	12	**CDM SMITH**, Boston, Mass.	903.4	76	14	DES/CON	18	0	6	34	42	0	0	0	21	64	15
15	14	**ERM**, London, England, U.K.	888.0	100	45	CSL	20	0	7	0	4	35	34	0	2	1	97
16	25	**GOLDER ASSOCIATES**, Palm Beach Gardens, Fla.	784.6	82	75	DES	27	1	2	7	1	32	22	9	3	7	90
17	16	**BLACK & VEATCH**, Overland Park, Kan.	766.1	24	40	DES	2	0	10	38	50	1	0	0	2	65	32
18	19	**CB&I**, The Woodlands, Texas	735.9	7	3	CON	54	15	5	0	0	14	6	6	50	15	35
19	40	**LEIDOS**, Reston, Va.	734.4	10	2	CSL	19	57	11	0	0	9	1	3	87	4	9
20	23	**PARSONS CORP.**, Pasadena, Calif.	624.6	18	16	DES	31	18	12	12	2	3	22	0	28	47	24
21	20	**KIEWIT CORP.**, Omaha, Neb.	619.1	8	0	CON	17	0	0	57	26	0	0	0	35	38	28
22	17	**THE WALSH GROUP LTD**, Chicago, Ill.	611.9	14	3	CON	0	0	0	35	65	0	0	0	5	95	0
23	22	**GARNEY HOLDING CO.**, Kansas City, Mo.	589.2	100	0	CON	0	0	0	70	30	0	0	0	5	84	11
24	34	**MCCARTHY HOLDINGS INC.**, St. Louis, Mo.	542.0	16	0	CM/PM	0	0	86	2	12	0	0	0	0	27	73
25	30	**WSP**, Montreal, Quebec, Canada[2]	540.2	9	89	CSL/CON	18	0	1	14	10	10	25	22	10	15	75
26	**	**MOTT MACDONALD GROUP**, Iselin, N.J.	519.3	24	89	DES	7	10	3	29	39	7	6	0	2	48	50
27	53	**GREAT LAKES DREDGE & DOCK CORP.**, Oak Brook, Ill.	488.3	64	8	CON	20	0	0	0	77	0	0	3	49	24	27
28	28	**AEGION CORP.**, Chesterfield, Mo.	483.4	40	25	CON	0	0	0	0	100	0	0	0	1	99	0
29	27	**TRADEBE ENVIRONMENTAL SERVICES**, Barcelona, Spain	478.2	92	57	OPS	79	1	0	13	0	2	0	6	2	1	97
30	29	**RAMBOLL ENVIRONMENTAL INC.**, Copenhagen, Denmark	454.5	29	58	DES	28	0	11	2	17	19	9	14	20	5	75
31	39	**BARNARD CONSTRUCTION CO. INC.**, Bozeman, Mont.	438.9	71	50	CON	8	0	3	36	0	0	0	54	3	23	74
32	26	**GHD**, Sydney, New South Wales, Australia	431.0	35	50	CSL/CON	48	0	4	2	7	22	17	0	3	22	75
33	32	**ANTEA GROUP**, Almere, Holland	415.6	16	89	CSL	17	1	3	7	4	61	2	5	10	27	63
34	24	**LAYNE CHRISTENSEN CO.**, The Woodlands, Texas	399.6	86	0	CON	0	0	0	49	49	2	0	0	1	23	77
35	31	**ICF INTERNATIONAL**, Fairfax, Va.	399.0	34	10	CSL	0	0	37	0	0	11	52	0	26	24	50
36	33	**BROWN AND CALDWELL**, Walnut Creek, Calif.	362.0	100	0	DES	0	0	0	22	52	13	13	0	3	67	30
37	35	**WEEKS MARINE INC.**, Cranford, N.J.	318.3	40	25	CON	4	0	0	10	9	0	77	0	23	77	0
38	43	**PC CONSTRUCTION**, South Burlington, Vt.	306.2	55	0	CON	0	0	0	44	57	0	0	0	0	98	2
39	46	**BOWEN**, Indianapolis, Ind.	300.2	98	0	CON	0	0	29	11	60	0	0	0	0	31	69
40	38	**TRC COS. INC.**, Lowell, Mass.	289.9	41	1	CSL	37	0	13	5	10	15	20	0	2	13	85
41	78	**GILBANE BUILDING CO.**, Providence, R.I.	264.9	6	24	CON	48	8	1	8	0	28	3	4	54	14	32
42	47	**ALBERICI-FLINTCO**, St. Louis, Mo.	259.9	13	4	CON	0	0	19	61	20	0	0	0	0	81	19
43	37	**LOUIS BERGER**, Morristown, N.J.	258.2	30	4	DES	32	0	0	36	11	12	10	0	50	30	20
44	36	**PCL CONSTRUCTION ENTERPRISES INC.**, Denver, Colo.	247.8	4	50	CON	0	0	0	60	40	0	0	0	0	100	0
45	48	**CAROLLO ENGINEERS INC.**, Walnut Creek, Calif.	247.6	100	24	DES	0	0	0	39	61	0	0	0	2	93	5
46	44	**LYLES CONSTRUCTION GROUP**, Fresno, Calif.	247.5	92	0	CON	0	0	0	11	89	0	0	0	0	92	8
47	43	**GEOSYNTEC CONSULTANTS INC.**, Atlanta, Ga.	243.6	88	13	CSL/DES	63	7	3	4	10	8	5	0	7	10	83
48	45	**KOKOSING INC.**, Westerville, Ohio	234.0	21	0	CON	3	0	0	53	43	0	0	0	2	90	9
49	**	**BAUER RESOURCES GMBH**, Schrobenhausen, Germany	231.7	100	94	CON	43	1	4	0	16	0	5	31	10	22	68
50	50	**BURNS & MCDONNELL**, Kansas City, Mo.	231.3	9	5	DES	25	2	10	21	12	25	5	0	10	15	75

FOOTNOTES: 1 Stantec acquired MWH Global, a former Top 200 list participant in 2016; 2 WSP was formerly WSP/Parsons Brinckerhoff.

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AMERICAN INTEGRATED SERVICES INC., a certified MBE environmental contractor in California, ranks on the Top 200 list for the first time in 2017.

RANK 2017	RANK 2016	FIRM	2016 ENVIRONMENTAL REVENUE: TOTAL (IN $ MIL.)	% OF ALL FIRM REV.	% OF NON-U.S.	TYPE OF WORK: LARGEST % OF ENV. REVENUE	MARKETS (% OF ENVIRONMENTAL REVENUE): HAZARDOUS WASTE	NUCLEAR WASTE	AIR	WATER	WASTEWATER TRMT.	ENV. MANAGEMENT	ENV. SCIENCE	OTHER	CLIENTS (% OF ENV. REV.): FEDERAL	STATE/LOCAL	PRIVATE
51	49	**NATIONAL RESPONSE CORP.,** Great River, N.Y.	228.0	100	25	OPS	90	0	0	0	0	5	5	0	5	20	75
52	52	**HAZEN AND SAWYER,** New York, N.Y.	218.0	100	3	DES	0	0	0	31	69	0	0	0	0	98	2
53	60	**WOODARD & CURRAN,** Portland, Maine	193.9	94	0	DES	18	0	3	19	38	22	0	0	0	42	58
54	54	**CLEAN EARTH INC.,** Hatboro, Pa.	189.0	100	0	CM/PM	34	0	0	0	0	54	0	12	7	32	61
55	**	**CARDNO LTD.,** Brisbane, Queensland, Australia	184.0	21	19	DES	4	0	0	2	3	22	53	16	21	21	58
56	41	**WORLEYPARSONS LTD.,** North Sydney, New South Wales, Australia	181.8	4	96	CSL	29	0	0	6	0	39	26	0	2	7	91
57	51	**WESTON SOLUTIONS INC.,** West Chester, Pa.	177.4	70	0	CSL	79	0	8	3	5	3	2	0	41	17	42
58	66	**ULLIMAN SCHUTTE CONSTRUCTION LLC,** Miamisburg, Ohio	167.3	100	0	CON	0	0	0	34	66	0	0	0	2	98	0
59	56	**BUREAU VERITAS,** Fort Lauderdale, Fla.	164.8	24	0	CSL	17	0	11	2	5	65	0	0	4	5	91
60	58	**SCS ENGINEERS,** Long Beach, Calif.	163.9	100	4	DES/CSL	96	0	0	0	0	4	0	0	2	35	63
61	61	**OBG,** Syracuse, N.Y.	163.8	80	0	DES/CSL/CON/CM-PM	57	0	4	8	24	6	1	0	4	20	76
62	75	**ATC GROUP SERVICES LLC,** Lafayette, La.	160.0	70	0	CON	19	0	13	1	1	64	1	1	1	14	85
63	59	**TERRACON CONSULTANTS INC.,** Olathe, Kan.	157.0	27	0	CSL	68	0	1	1	1	20	9	0	1	14	85
64	63	**SEVENSON ENVIRONMENTAL SERVICES INC.,** Niagara Falls, N.Y.	156.6	92	0	CON	100	0	0	0	0	0	0	0	26	0	74
65	65	**APEX COS. LLC,** Rockville, Md.	150.4	100	0	CSL/CON/CM-PM	29	0	2	1	30	20	18	0	14	6	80
66	62	**WHARTON-SMITH INC.,** Sanford, Fla.	147.0	46	2	CON	0	0	0	21	79	0	0	0	1	94	5
67	68	**KLEINFELDER,** San Diego, Calif.	138.1	37	20	CM-PM	63	0	0	16	0	12	9	0	7	28	65
68	64	**MICHAEL BAKER INTERNATIONAL,** Pittsburgh, Pa.	136.6	21	0	CSL	5	0	0	50	13	0	32	0	39	49	12
69	57	**RICE LAKE CONSTRUCTION GROUP,** Deerwood, Minn.	134.5	82	8	CON	0	0	0	27	73	0	0	0	0	81	19
70	71	**EA ENGINEERING, SCIENCE, AND TECHNOLOGY INC.,** Hunt Valley, Md.	133.4	100	0	DES	54	1	1	2	6	16	20	0	61	21	18
71	69	**SNC-LAVALIN INC.,** Montreal, Quebec, Canada	127.7	2	100	CSL	1	0	2	5	0	5	87	0	15	20	65
72	84	**CASCADE ENVIRONMENTAL,** Woodinville, Wash.	125.9	72	3	CSL/CON	88	0	0	3	0	9	0	0	34	17	49
73	107	**NAVARRO RESEARCH AND ENGINEERING INC.,** Oak Ridge, Tenn.	122.3	83	0	CON	10	71	1	1	9	7	1	0	100	0	0
74	94	**NORTH WIND GROUP,** Idaho Falls, Idaho	121.8	79	0	CON	64	17	0	0	0	8	11	0	93	4	3
75	77	**TRINITY CONSULTANTS,** Dallas, Texas	116.9	100	10	CSL	0	0	77	0	2	16	5	0	1	2	97
76	125	**HASKELL,** Jacksonville, Fla.	111.6	15	0	CON	0	0	0	4	96	0	0	0	0	56	44
77	85	**LANGAN ENGIN., ENVIR., SURV. & LANDSCAPE ARCH.,** Parsippany, N.J.	110.3	45	6	DES	54	0	2	2	2	20	20	0	6	9	85
78	83	**HALEY & ALDRICH INC.,** Burlington, Mass.	109.7	70	0	CSK	63	2	5	5	5	10	5	5	1	1	98
79	88	**MAX FOOTE CONSTRUCTION CO. LLC,** Mandeville, La.	107.9	100	0	CON	0	0	0	11	90	0	0	0	0	84	16
80	103	**C.H. NICKERSON & CO. INC.,** Torrington, Conn.	107.4	100	0	CON	0	0	0	86	14	0	0	0	0	94	6
81	67	**ECOLOGY AND ENVIRONMENT INC.,** Lancaster, N.Y.	105.9	100	30	CSL	30	1	2	1	3	31	33	0	30	29	41
82	102	**ALLAN MYERS,** Worcester, Pa.	102.6	13	0	CM/PM	0	0	0	49	51	0	0	0	3	51	46
83	72	**C. OVERAA & CO.,** Richmond, Calif.	102.3	38	0	CON	0	0	0	29	71	0	0	0	0	83	17
84	100	**CROWDER CONSTRUCTORS INC.,** Charlotte, N.C.	101.7	0	0	CON	0	0	0	5	95	0	0	0	0	100	0
85	81	**PAL ENVIRONMENTAL SAFETY CORP.,** Long Island City, N.Y.	100.0	100	0	CON	100	0	0		0	0	0	0	0	21	79
86	74	**ECC,** Burlingame, Calif.	99.9	48	48	CON	69	0	0	27	1	3	0	0	67	0	33
87	93	**KENNEDY JENKS CONSULTANTS INC,** San Francisco, Calif.	97.8	100	0	DES	1	0	1	29	35	18	17	0	1	64	34
88	89	**ANCHOR QEA LC,** Seattle, Wash.	90.7	100	6	CSL	0	0	0	1	1	7	42	49	10	18	73
89	86	**ENVIRONMENTAL RESTORATION LLC,** St. Louis, Mo.	90.5	100	0	CON	100	0	0	0	0	0	0	0	72	2	26
90	80	**SUKUT CONSTRUCTION LLC,** Santa Ana, Calif.	90.0	23	0	CON	0	0	0	0	0	0	0	100	0	88	12
91	73	**REMEDIAL CONSTRUCTION SERVICES LP,** Houston, Texas	88.0	53	19	CON	100	0	0	0	0	0	0	0	0	0	100
92	99	**HATCH LTD.,** Mississauga, Ontario, Canada	87.6	11	97	DES	0	0	14	19	22	18	27	0	0	11	89
93	92	**GROUNDWATER & ENVIRONMENTAL SERVICES INC.,** Wall Township, N.J.	87.5	100	8	CSL	25	2	2	8	21	35	7	0	2	2	96
94	**	**AMERICAN INTEGRATED SERVICES INC.,** Wilmington, Calif.	87.5	100	0	CON	78	0	0	0	0	0	0	22	1	13	86
95	91	**CIVIL & ENVIRONMENTAL CONSULTANTS INC.,** Pittsburgh, Pa.	86.1	74	1	DES	29	0	14	9	21	18	9	0	0	5	95
96	96	**GZA,** Norwood, Mass.	85.6	64	0	CSL	34	0	6	2	2	11	40	5	0	7	93
97	87	**SWCA ENVIRONMENTAL CONSULTANTS,** Phoenix, Ariz.	85.6	100	0	CSL	0	0	0	0	0	46	51	3	7	18	75
98	95	**ROUX ASSOCIATES INC.,** Islandia, N.Y.	84.9	100	1	CSL	70	0	1	0	5	5	4	15	0	5	95
99	90	**HYDROGEOLOGIC INC.,** Reston, Va.	84.6	99	0	CON	64	7	0	0	15	2	1	11	96	3	1
100	108	**DUDEK,** Encinitas, Calif.	83.2	100	0	CSL	0	0	0	15	10	25	50	0	0	50	50

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101	82	**USA ENVIRONMENT LP,** Deer Park, Texas	82.0	100	0	CON	75	25	0	0	0	0	0	0	5	0	95
102	111	**ENVIRONMENTAL SCIENCE ASSOCIATES,** San Francisco, Calif.	80.9	100	0	CSL	0	0	9	9	4	28	50	0	3	50	46
103	110	**CHARTER CONTRACTING CO.,** Boston, Mass.	78.5	100	0	CON	100	0	0	0	0	0	0	0	30	10	60
104	98	**EBI CONSULTING INC.,** Burlington, Mass.	78.3	100	0	CSL	13	0	1	1	0	81	4	0	3	3	94
105	101	**GREELEY AND HANSEN LLC,** Chicago, Ill.	77.8	100	1	DES	0	0	0	13	87	0	0	0	0	95	5
106	106	**J.R. FILANC CONSTRUCTION CO. INC.,** Escondido, Calif.	75.7	100	0	CON	0	0	0	35	57	0	0	8	15	85	0
107	105	**THE CADMUS GROUP,** Waltham, Mass.	75.2	72	9	CSK	0	0	0	25	0	10	10	55	38	8	54
108	113	**JUDY CONSTRUCTION CO.,** Cynthiana, Ky.	72.6	95	0	CON	0	0	0	27	73	0	0	0	0	100	0
109	**	**FREESE AND NICHOLS INC,** Fort Worth, Texas	71.5	54	0	DES	0	0	0	59	38	1	2	0	4	91	6
110	116	**M.B. KAHN CONSTRUCTION CO. INC.,** Columbia, S.C.	70.6	23	0	CON	0	0	0	63	37	0	0	0	0	82	19
111	117	**WESTON & SAMPSON,** Peabody, Mass.	70.6	88	0	DES	11	0	0	23	38	8	8	13	0	71	29
112	114	**AKRF INC.,** New York, N.Y.	69.6	100	0	CSL	20	0	5	5	10	10	50	0	0	60	40
113	115	**GANNETT FLEMING,** Camp Hill, Pa.	68.8	18	2	DES	11	0	0	59	19	2	9	0	10	50	40
114	128	**PARTNER ENGINEERING AND SCIENCE INC.,** Torrance, Calif.	64.8	45	1	CSL	5	0	7	0	0	88	0	0	5	5	90
115	124	**ENSAFE INC,** Memphis, Tenn.	64.2	100	0	CSL	19	0	2	0	3	53	3	21	25	13	62
116	120	**HEPACO LLC,** Charlotte, N.C.	63.8	100	0	CON	98	0	0	2	0	0	0	0	0	1	99
117	122	**BARR ENGINEERING CO.,** Minneapolis, Minn.	63.4	46	3	CSL	14	0	12	6	11	34	22	1	1	17	82
118	123	**CROSSLAND HEAVY CONTRACTORS INC.,** Columbus, Kan.	62.1	58	0	OPS	0	0		70	30	0	0	0	0	100	0
119	112	**TRIHYDRO CORP.,** Laramie, Wyo.	62.0	90	0	CSL	30	0	25	10	10	10	15	0	9	9	82
120	126	**ESG OPERATIONS INC.,** Macon, Ga.	61.3	100	0	OPS	5	0	0	45	45	0	0	0	0	95	5
121	130	**INTERTEK-PSI,** Arlington Heights, Ill.	59.8	5	0	CSL	45	0	0	0	0	45	10	0	5	15	80
122	119	**GEI CONSULTANTS INC.,** Woburn, Mass.	58.3	40	0	CON	67	0	4	3	1	18	7	0	1	13	86
123	70	**LOS ALAMOS TECHNICAL ASSOCIATES INC,** Albuquerque, N.M.	57.6	88	0	CON	43	54	0	0	1	3	0	0	97	3	0
124	135	**VERSAR INC.,** Springfield, Va.	57.4	34	0	DES/CSL/CON/CM-PM	17	0	9	0	0	32	42	0	69	30	1
125	132	**PORTAGE INC.,** Idaho Falls, Idaho[3]	56.0	100	0	CON	0	85	0	0	0	15	0	0	100	0	0
126	121	**BRASFIELD & GORRIE LLC.** Birmingham, Ala.	55.9	2	0	CON	0	0	0	85	15	0	0	0	0	100	0
127	142	**ET ENVIRONMENTAL CORP., LLC,** Atlanta, Ga.	55.7	100	3	CM/PM	94	0	0	0	5	0	1	0	0	3	97
128	133	**KCI TECHNOLOGIES INC.,** Sparks, Md.	55.2	27	0	DES	5	0	0	18	38	18	21	0	0	90	10
129	129	**GSE CONSTRUCTION CO. INC,** Livermore, Calif.	55.0	100	0	CON	0	0	0	40	60	0	0	0	0	72	28
130	146	**COMANCO ENVIRONMENTAL CORP.,** Plant City, Fla.	53.8	100	3	CON	80	2	0	7	11	0	0	0	0	30	70
131	109	**ENVIRONMENTAL QUALITY MANAGEMENT INC.,** Cincinnati, Ohio	53.3	100	5	CON	68	2	15	0	5	10	0	0	80	5	15
132	118	**PERMA-FIX ENVIRONMENTAL SERVICES,** Atlanta, Ga.	51.2	100	3	OPS	15	80	0	0	0	5	0	0	63	2	35
133	149	**D&B ENGINEERS AND ARCHITECTS PC,** Woodbury, N.Y.	49.5	97	0	DES	20	0	0	8	72	0	0	0	0	95	5
134	171	**EAGLE CONTRACTING L.P.,** Fort Worth, Texas	48.6	100	0	CON	0	0	0	0	100	0	0	0	0	100	0
135	139	**CREAMER ENVIRONMENTAL INC.,** Cedar Grove, N.J.	48.6	100	0	CON	100	0	0	0	0	0	0	0	0	5	95
136	140	**DEWBERRY,** Fairfax, Va.	48.4	13	0	DES	7	0	2	28	50	6	7	0	25	65	10
137	**	**GROUND/WATER TREATMENT & TECHNOLOGY LLC,** Wharton, N.J.	48.3	100	0	OPS	0	0	0	0	90	0	0	10	10	0	90
138	134	**ONEIDA TOTAL INTEGRATED ENTERPRISES (OTIE),** Milwaukee, Wisc.	45.7	69	10	CON	77	0	0	1	4	0	9	9	83	15	2
139	136	**WADE TRIM,** Detroit, Mich.	45.7	71	0	DES	0	0	0	22	72	0	6	0	1	69	30
140	127	**CAPE ENVIRONMENTAL MANAGEMENT INC.,** Norcross, Ga.	45.6	50	5	CON	86	0	0	1	2	1	10	0	53	0	47
141	137	**GAI CONSULTANTS INC.,** Homestead, Pa.	45.1	34	0	CON	11	0	0	4	4	0	76	5	3	6	91
142	147	**T&M ASSOCIATES,** Middletown, N.J.	43.8	63	0	CSL	25	0	5	10	30	25	5	0	2	65	33
143	104	**ENERCON SERVICES INC.,** Kennesaw, Ga.	42.1	17	0	CSL	21	5	1	0	0	33	34	6	0	30	70
144	144	**S&ME INC.,** Raleigh, N.C.	41.9	24	0	CSL	28	1	2	0	2	38	29	0	5	20	75
145	143	**PRECISION ENVIRONMENTAL CO.,** Independence, Ohio	41.9	95	0	CON	100	0	0	0	0	0	0	0	8	13	79
146	131	**ENGINEERING/REMEDIATION RESOURCES GROUP, INC,** Martinez, Calif.	41.1	100	0	CON	85	0	0	0	10	5		0	30	27	43
147	141	**WENCK ASSOCIATES INC.,** Maple Plain, Minn.	40.7	68	3	DES	15	0	10	15	15	10	15	20	3	37	60
148	154	**TURNER SPECIALTY SERVICES LLC,** Baton Rouge, La.	39.5	100	0	CON	30	0	0	10	60	0	0	0	0	5	95
149	186	**HNTB COS.,** Kansas City, Mo.	39.4	4	0	DES	0	0	0	26	27	0	32	15	11	87	2
150	185	**AMERICAN CONTRACTING & ENVIR. SERVICES INC.,** Columbia, Md.	38.8	100	0	CON	9	0	0	3	88	0	0	0	1	96	3

FOOTNOTE: 3 PORTAGE INC. WAS ACQUIRED BY NORTH WIND GROUP, RANKED AT NO. 74, IN JANUARY 2017

#137 **GROUND/WATER TREATMENT & TECHNOLOGY LLC,** new to the Top 200 in 2017, was a unit of geotech contractor Moretrench American.

RANK 2017	RANK 2016	FIRM	2016 ENVIRONMENTAL REVENUE: TOTAL (IN $ MIL.)	% OF ALL FIRM REV.	% OF NON-U.S.	TYPE OF WORK: LARGEST % OF ENV. REVENUE	MARKETS (% OF ENVIRONMENTAL REVENUE): HAZARDOUS WASTE	NUCLEAR WASTE	AIR	WATER	WASTEWATER TRMT.	ENV. MANAGEMENT	ENV. SCIENCE	OTHER	CLIENTS (% OF ENV. REV.): FEDERAL	STATE/LOCAL	PRIVATE
151	162	**PENNONI,** Philadelphia, Pa.	38.3	18	0	CSL	40	0	5	15	5	5	5	25	5	25	70
152	150	**ARC ABATEMENT,** Waco, Texas	38.2	100	0	CON	100	0	0	0	0	0	0	0	5	25	70
153	165	**STRAND ASSOCIATES INC.,** Madison, Wis.	37.9	52	0	DES	0	0	0	25	75	0	0	0	0	100	0
154	156	**TIGHE & BOND INC.,** Westfield, Mass.	37.8	70	0	DES/CSL	20	0	0	25	38	3	14	0	0	60	40
155	168	**JOHNSON, MIRMIRAN & THOMPSON INC.,** Hunt Valley, Md.	37.5	16	0	DES	0	0	0	7	41	28	24	0	2	97	1
156	**	**J.F. BRENNAN CO. INC.,** La Crosse, Wis.	37.5	46	0	CON	100	0	0	0	0	0	0	0	1	9	90
157	169	**VHB,** Watertown, Mass.	37.0	18	0	CSL	11	0	2	0	12	1	74	0	3	38	59
158	157	**BSI SERVICES AND SOLUTIONS (WEST) INC.,** San Jose, Calif.	36.6	100	7	CSL	3	0	5	0	0	6	0	85	0	5	95
159	155	**CABRERA SERVICES INC.,** East Hartford, Conn.	35.9	100	0	CON	5	65	5	10	5	5	5	0	90	2	8
160	160	**THE VERTEX COS. INC.,** Weymouth, Mass.	35.8	32	7	CSL	23	0	16	0	0	57	4	0	1	2	97
161	153	**FOTH COS.,** De Pere, Wis.	35.6	26	0	DES	33	0	7	0	10	9	41	0	1	23	76
162	148	**INNOVATIVE CONSTRUCTION SOLUTIONS,** Santa Ana, Calif.	35.3	80	0	CM/PM	75	0	0	25	0	0	0	0	1	7	92
163	159	**GRESHAM, SMITH AND PARTNERS,** Nashville, Tenn.	35.2	22	0	CON	0	0	0	12	58	6	0	24	0	95	5
164	163	**ENVIROTRAC LTD.,** Yaphank, N.Y.	35.0	100	0	CSL	35	0	5	0	10	40	10	0	0	30	70
165	191	**J. F. AHERN CO.,** Fond du Lac, Wis.	34.3	12	0	CON	0	0	2	15	83	0	0	0	0	90	10
166	170	**BAY WEST LLC,** St. Paul, Minn.	33.3	100	0	CON]	93	0	3	0	2	2	0	0	72	14	14
167	164	**BUILDING CRAFTS INC.,** Wilder, Ky.	33.0	81	0	CON	0	0	0	48	52	0	0	0	0	83	17
168	178	**ENGINEERING CONSULTING SERVICES LTD.,** Chantilly, Va.	32.1	17	0	CSL	30	0	0	15	0	45	10	0	5	15	80
169	138	**WHITMAN, REQUARDT & ASSOCIATES,** Baltimore, Md.	31.2	24	2	DES	0	0	0	43	44	0	13	0	0	100	0
170	166	**WRIGHT-PIERCE,** Topsham, Maine	31.2	98	0	DES-CON	0	0	0	25	73	1	1	0	0	94	6
171	177	**POSILLICO,** Farmingdale, N.Y.	30.1	100	0	CON	100	0	0	0	0	0	0	0	0	10	90
172	179	**RJN GROUP INC.,** Wheaton, Ill.	29.8	100	0	DES	0	0	0	4	96	0	0	0	0	99	1
173	172	**PARAMETRIX INC.,** Seattle, Wash.	29.5	45	0	DES-CSL	14	0	0	10	27	1	49	0	4	59	37
174	**	**H2M ARCHITECTS + ENGINEERS,** Melville, N.Y.	29.1	49	0	CSL	37	5	3	26	12	4	13	0	0	51	49
175	183	**POWER ENGINEERS INC.,** Hailey, Idaho	28.9	7	0	CSL	4	0	8	1	6	3	78	0	0	7	93
176	152	**THE CONTI GROUP,** Edison, N.J.	28.8	8	8	CON	68	0	0	0	32	0	0	0	32	0	68
177	173	**LOCUS TECHNOLOGIES,** Mountain View, Calif.	28.8	100	10	R&D	10	5	0	0	0	0	0	85	20	0	80
178	176	**NORMANDEAU ASSOCIATES INC.,** Bedford, N.H.	28.7	100	1	CSL	0	0	0	0	0	0	100	0	10	4	85
179	181	**BURGESS & NIPLE INC.,** Columbus, Ohio	28.6	40	0	CSL	4	0	1	32	54	9	0	0	0	66	34
180	**	**GEO-SOLUTIONS INC.,** New Kensington, Pa.	27.8	60	5	CON	100	0	0	0	0	0	0	0	30	20	50
181	192	**INTERA INC.,** Austin, Texas	26.6	100	8	CSL	30	30	0	5	0	5	10	20	40	30	30
182	188	**ENVIRONMENTAL CONSULTING & TECHNOLOGY INC.,** Gainesville, Fla.	26.4	100	1	CSL	12	0	8	0	26	13	30	12	75	25	0
183	175	**JOHNSTON CONSTRUCTION CO.,** Dover, Pa.	26.0	100	0	CON	1	0	0	19	80	0	0	0	35	30	35
184	187	**MCKIM & CREED INC.,** Raleigh, N.C.	25.6	45	10	DES	0	0	7	25	68	0	0	0	1	85	14
185	193	**ABSCOPE ENVIRONMENTAL INC.,** Canastota, N.Y.	25.0	100	0	CON	100	0	0	0	0	0	0		5	20	75
186	**	**EFI GLOBAL INC.,** Houston, Texas	24.6	37	0	CSL	67	0	0	0	0	28	0	5	7	41	53
187	161	**IREX CONTRACTING GROUP,** Lancaster, Pa.	24.1	10	0	CON	70	0	0	0	0	30	0	0	3	0	97
188	**	**AUGUST MACK ENVIRONMENTAL INC.,** Indianapolis, Ind.	24.1	100	0	CSL	30	0	3	2	13	37	13	2	1	2	97
189	190	**SHORT-ELLIOTT-HENDRICKSON INC. (SEH),** St. Paul, Minn.	23.3	20	0	DES	10	0	10	30	30	10	10	0	5	75	20
190	174	**LAND REMEDIATION INC.,** Waterford, N.Y.	23.1	100	0	CON	100	0	0	0	0	0	0	0	0	0	100
191	196	**EARTHCON CONSULTANTS INC.,** Marietta, Ga.	22.9	100	17	CSL-CON	67	0	1	0	5	10	2	15	1	4	95
192	200	**SLETTEN CONSTRUCTION,** Great Falls, Mont.	22.3	7	0	CON	0	0	0	10	90	0	0	0	0	100	0
193	189	**PPM CONSULTANTS INC.,** Monroe, La.	22.0	100	0	CSL	5	0	8	5	10	15	2	55	0	10	90
194	184	**SCHNABEL ENGINEERING,** Glen Allen, Va.	21.8	38	0	DES	4	0	0	73	3	3	3	13	10	53	37
195	180	**STV GROUP INC.,** New York, N.Y.	21.2	5	0	CSL	30	0	10	0	10	20	30	0	5	85	10
196	158	**LEGGETTE, BRASHEARS & GRAHAM INC.,** Shelton, Conn.	19.8	70	2	CSL	27	1	1	65	0	5	1	0	0	17	83
197	199	**GRW ENGINEERS INC.,** Lexington, Ky.	19.6	65	0	DES	0	0	0	33	67	0	0	0	0	94	6
198	**	**LT ENVIRONMENTAL INC.,** Arvada, Colo.	19.5	100	0	CON	63	0	11	3	11	11	2	1	0	10	90
199	194	**STANLEY CONSULTANTS,** Muscatine, Iowa	18.9	11	1	DES	15	0	40	11	27	7	0	0	4	30	66
200	197	**JONES EDMUNDS & ASSOCIATES INC.,** Gainesville, Fla.	18.4	68	0	DES	22	0	0	10	37	9	16	6	3	93	4

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