



Enforcement and Compliance Assurance Annual Results for Fiscal Year 2016

**U.S. Environmental Protection Agency
Office of Enforcement and Compliance Assurance
Washington, DC 20460**

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News Releases from Headquarters

EPA Announces 2016 Annual Environmental Enforcement Results

12/19/2016

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WASHINGTON – The U.S. Environmental Protection Agency (EPA) today announced its 2016 annual enforcement and compliance results, highlighted by a series of high-impact cases that are delivering environmental and public health benefits to communities across the country. During EPA’s 2016 fiscal year—which spanned October 1, 2015 to September 30, 2016—EPA enforcement actions secured \$13.7 billion in investments by companies for projects to control pollution. EPA also secured enforceable commitments that ensure the proper treatment, storage and disposal of an estimated 62 billion pounds of hazardous waste, the majority coming through a settlement with Mosaic Fertilizer for their eight facilities across Florida and Louisiana.

Two recent landmark settlements—one with BP and one with Volkswagen—are among the most comprehensive and impactful environmental cases in U.S. history. On April 4, 2016, the court entered an agreement with BP for a \$20.8 billion settlement to resolve Clean Water Act violations stemming from the Deepwater Horizon blowout and resulting oil spill, with more than \$20 billion going to restore impacted communities and the environment. In a case that was lodged in fiscal year 2015 but not entered by the court until October 25, 2016, Volkswagen agreed to spend up to \$14.7 billion on projects to reduce air pollution, remedy environmental damage and buy back 2.0 liter diesel vehicles to settle allegations of using illegal software to cheat emissions tests and deceive customers.

“EPA’s enforcement work continues to hold violators accountable and deliver investments to reduce pollution in our communities,” said Cynthia Giles, Assistant Administrator for EPA’s Office of Enforcement and Compliance Assurance. “The American public depends on EPA to enforce the law, protect our communities from pollution and help ensure a level playing field for responsible companies.”

To view an interactive map showing the location of EPA’s 2016 enforcement actions, [click here](#)

EPA’s 2016 enforcement efforts also secured:

- More than \$1 billion in commitments from responsible parties to clean up Superfund sites, and return \$55 million to the Superfund trust.

- Commitments from companies to reduce, treat or eliminate releases of pollution by an estimated 324 million pounds per year.
- Clean up of an estimated 174 million cubic yards of contaminated water or aquifers and 17 million cubic yards of contaminated soil.
- A combined \$6 billion in federal administrative, civil judicial penalties and criminal penalties.
- \$207 million in criminal fines and restitution, and a combined 93 years of incarceration for criminal violations of federal environmental laws.

EPA continued to pursue high impact cases to drive compliance and tackle the biggest pollution problems across industries:

- Tesoro Corp., one of the largest fuel refiners in the U.S., and Par Hawaii Refining will improve public health protections by spending \$403 million on advanced pollution control equipment to reduce air pollution at six refineries and \$12 million on projects to improve public health in local communities previously impacted by pollution.
- Enbridge, which owns and operates one of the world's largest oil pipeline systems, will spend at least \$110 million on implementing a series of state-of-the-art leak detection and monitoring measures to prevent spills, improve operations and protect communities across nearly 2,000 miles of its pipeline system in the Great Lakes region, following oil spills in Michigan and Illinois in 2010. Enbridge is also paying \$62 million in penalties.
- In a settlement with Marathon Petroleum Company, the company will spend \$319 million to install state-of-the-art air pollution controls at refineries in five different states, protecting the health of low-income and other vulnerable communities across the Southeast and Midwest.
- Sears will implement a comprehensive, corporate-wide program to ensure its contractors minimize lead dust from home renovation activities to protect the health of children and other vulnerable communities from exposure to lead-based paint.
- A settlement with Southern Coal Corporation and its affiliates requires the companies to comprehensively upgrade their coal mining and processing operations, at an estimated cost of \$5 million, to prevent polluted wastewater from threatening rivers and streams and overburdened communities across Appalachia.
- A settlement with national grocery store chain Trader Joe's Company will reduce potent greenhouse gas emissions from refrigeration equipment at 453 stores nationwide and sets a high standard for the grocery industry for detecting and fixing coolant leaks.
- EPA is working closely with local governments and utilities in communities such as Salt Lake County, Utah, Greenville, Miss. and the city of Rockford, Ill. to cut discharges of raw sewage and contaminated stormwater through integrated planning, green infrastructure and other innovative approaches.

More information about EPA's fiscal year 2016 enforcement results: <https://www.epa.gov/enforcement/enforcement-annual-results-fiscal-year-2016>

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Enforcement Annual Results for Fiscal Year 2016

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EPA's 2016 annual enforcement and compliance results demonstrate continued progress implementing Next Generation Compliance technologies and creative solutions in high-impact enforcement cases to reduce pollution, level the playing field for responsible companies and protect public health in communities across the country, including those disproportionately affected by pollution.

EPA's enforcement accomplishments include:

- **More than \$13.7 billion** in investments by companies in actions and equipment to control pollution. In addition, a case against Volkswagen lodged in June and entered just after the end of fiscal year 2015 adds up to \$14.7 billion to remedy Clean Air Act violations.
- **More than \$1 billion** in commitments from responsible parties to clean up Superfund sites.
- **\$6 billion** in combined federal administrative, civil judicial penalties and criminal fines.
- **93 combined years** of incarceration for sentenced defendants.
- **\$31.6 million** for supplemental environmental projects that provide direct benefits to local communities across the country.

Enforcement Highlights



During inspections of drinking water treatment plants, inspectors must climb to the top of the storage tank to check the condition of the tank.



Looking for Enforcement Annual Results from previous years?

[Search our document collection in archives.](#) "enforcement annual results"

In a landmark settlement, [Volkswagen](#) agreed to spend up to \$14.7 billion to settle allegations of using “defeat devices” to cheat emissions tests and deceive customers. Volkswagen will offer consumers a buyback and lease termination for nearly 500,000 model year 2009-2015 2.0 liter diesel vehicles sold or leased in the U.S., and provide additional compensation to consumers, at a cost of up to \$10 billion. In addition, Volkswagen will spend \$4.7 billion to mitigate the pollution from these cars and invest in green vehicle technology. Together, these actions will restore clean air protections and make our auto industry cleaner for generations of Americans to come.

[Enbridge](#), which owns and operates one of the world’s largest oil pipeline systems, is spending at least \$110 million on implementing a series of state-of-the-art leak detection and monitoring measures to prevent spills, improve operations and protect communities across nearly 2,000 miles of its pipeline system in the Great Lakes region. Enbridge is also paying \$62 million in penalties for oil spills in Michigan and Illinois in 2010.

[Tesoro](#) Corp., one of the largest fuel refiners in the U.S., and Par Hawaii Refining will improve public health protections by spending \$403 million on advanced pollution control equipment to reduce air pollution at six refineries and \$12 million on projects to improve public health in local communities previously impacted by pollution.

[Sears](#) will implement a comprehensive, corporate-wide program to ensure its contractors minimize lead dust from home renovation activities to protect the health of children and other vulnerable communities from exposure to lead-based paint.

Under a settlement with [BP Exploration & Production, Inc.](#), the company agreed to pay \$5.5 billion in penalties for Clean Water Act violations stemming from the April 20, 2010 Deepwater Horizon blowout and subsequent oil spill. This is the largest penalty ever for a Clean Water Act settlement. The settlement returned over \$20 billion to Gulf communities to restore the environment and strengthen resilience.

EPA is working closely with local governments and utilities in communities such as Salt Lake County, Utah, [Greenville, Miss.](#) and the [city of Rockford, Ill.](#) to cut discharges of raw sewage and contaminated stormwater through integrated planning, green infrastructure and other innovative approaches.

A settlement with national grocery store chain [Trader Joe's Company](#) will reduce potent greenhouse gas emissions from refrigeration equipment at 453 stores nationwide and sets a high bar for the grocery industry for detecting and fixing coolant leaks.

EPA's criminal program secured \$775,000 in court-ordered environmental projects, generated \$207 million in fines and restitution and sentenced defendants to a combined 93 years of incarceration. The two owners of [Freedom Industries](#), a chemical processing company, were each sentenced to 30 days in prison and a \$20,000 fine for a chemical spill that contaminated the Elk River and drinking water for 300,000 people and vulnerable communities in Charleston, W.Va., and in surrounding areas.

EPA ensures companies and federal facilities take responsibility and clean up toxic pollution they create while EPA conserves and recovers federal funds. This year, settlements will result in more than \$1 billion in commitments from responsible parties to clean up Superfund sites, and return \$55 million to the Superfund trust.

EPA completed more than [100 enforcement actions](#) that require entities like renovation contractors, landlords and property managers to protect communities and public health from exposure to lead. Collectively, the settlements require violators to pay more than \$1 million in penalties in addition to returning to compliance with federal lead-based paint rules.

EPA also finalized a rule for National Pollutant Discharge Elimination Systems (NPDES) that allows regulated entities to submit information electronically, increasing compliance rates and improving transparency. This rule will save an estimated \$22.6 million annually.

Progress on our National Enforcement Initiatives:

- [Reducing Air Pollution from the Largest Sources](#)
- [Cutting Hazardous Air Pollutants](#)
- [Ensuring Energy Extraction Activities Comply with Environmental Laws](#)
- [Reducing Pollution from Mineral Processing Operations](#)
- [Keeping Raw Sewage and Contaminated Stormwater Out of Our Nation's Waters](#)
- [Preventing Animal Waste from Contaminating Surface and Ground Water](#)

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Enforcement Annual Results Concluded Cases Map for Fiscal Year 2016

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Concluded EPA Enforcement Cases Map

This interactive map shows information on concluded enforcement actions and cases from fiscal year (FY) 2016. They include:

- civil enforcement actions taken by EPA at facilities,
- criminal cases prosecuted by EPA under federal statutes and the U.S. Criminal Code, and
- cases in which EPA provided significant support to cases prosecuted under state criminal laws

The indicators on the map generally mark the location of the site or facility where the violations occurred or were discovered.

How to Use the Map

The map displays all FY 2016 EPA enforcement actions. Add or subtract one or more layers (e.g. Air Water, Criminal) from the map by clicking on the "Layers" menu in the gray box beside the map. Check or un-check the box next to the program layer of interest.

Zoom the map to an exact location. Enter a city and state in the search box, then press the [Enter] key on your keyboard or use the zoom bar in the map's upper left corner. Click on the indicator to get information on the environmental enforcement case. See "[What are the limitations of interactive maps? for additional information and needs accommodations related to a disability.](#)"

Find address or place: Enter city and state. Press [Enter] on your keyboard.



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- Cleanup cases are civil enforcement actions taken under the Superfund program and the RCRA corrective action and leaking underground storage tank programs.
- Criminal enforcement cases include those prosecuted by EPA under federal statutes, the U.S. Criminal Code (Title 18), and cases in which EPA provided significant support to cases prosecuted under state criminal laws.
- Federal - Includes federal agencies and contractors at federal facilities.

Civil Enforcement Cases Not Represented on this Map

State	City	Facility Site Name	Primary Law	FRS/Program ID
PR	Utuaado	La Julita Community	SDWA	110010634144
PR	Corozal	Prasa Corozal Urbano	SDWA	110069548136
PA	Ashville	Ashville Inn	SDWA	110051746358
PA	Sharon	Buhl Cottages	SDWA	110051659148
PA	Pipersville	Camp Ockanickon	SDWA	110051611760
PA	Slippery rock	Coopers Lake	SDWA	110051607944
PA	Tioga	Fred S Lobster Garden	SDWA	110051766139
PA	Quakertown	Fries Rebellion	SDWA	110051690997
PA	Elderton	K & S Crossroads Convience St	SDWA	110052560803
PA	Valencia	Lakevue Racquet Club	SDWA	110051708087
PA	Tionesta	North Clarion Gas Inc	SDWA	110052866350
PA	Worthington	Novotnys Grocery	SDWA	110051771793
PA	Austin	Prouty Place State Park	SDWA	110052868287
PA	Westfield	River Valley Country Club	SDWA	110051801350
PA	Ulysses	Sandys Country Cottage Rest	SDWA	110052784144
PA	Butler	Serene Valley Golf Course	SDWA	110051861231
PA	Slippery rock	Slippery Rock Dunes	SDWA	110051861197
PA	Starlight	Starlite Inn	SDWA	110052784091

PA	Effort	Sun Valley Volunteer Fire Co	SDWA	110051835519
PA	Tioga	The Elms Tavern	SDWA	110051766157
PA	Wellsboro	Tioga Co Community Resources	SDWA	110051820455
PA	Tioga	Tioga Heritage Campground	SDWA	110051695796
AZ	Yuma	Basf Corporation C/O Desert Depot	FIFRA	110067008954
MI	Flint	City Of Flint Wtp	SDWA	110069231986
IL	Nashville	Gdb International	RCRA	110024548444
PA	Emigsville	Hercon Environmental Corp	FIFRA	110043422409
IL	Buffalo	Herrin Ltd.	FIFRA	110044869951
NJ	Raritan	Janssen Pharmaceutical	FIFRA	110067242950
OH	Kensington	Kensington Processing Plant	CAA	110058895370
OH	Kensington	Kensington Processing Plant	CAA	110058895370
WI	Keshena	Keshena Wwtf	CWA	110027989602
WI	East troy	Landmark Services	CAA	110067640510
PA	Valley forge	Pq Corporation	FIFRA	110069493266
IN	Sulphur springs	Robert Goad Property	CWA	110056132689
IN	Sulphur springs	Robert Goad Property	CWA	110056132689
WI	Shawano county	Wolf River Ranch Wwtf	CWA	110027989595
LA	Larose	Augusta Facility	CWA	OIL R6-LA-01504
LA	Terrebonne	Lake Hatch Facility	CWA	110055374811

WY	Wheatland	A-Ok Rv Park	SDWA	110050820028
WY	Ohio	Ashley Nf-Firehole Recreation Area	SDWA	110050786949
WY	Jackson	Broken Arrow Ranch/City Kid Wilderness	SDWA	110050801735
WY	Lysite	Burlington Resources/Conoco Phillips	SDWA	110050777566
WY	Gillette	Cedar Hills Water Association	SDWA	110013032333
WY	Wilson	Chippy's Catering/Wilson Hardware	SDWA	110067320269
WY	Dubois	Crooked Creek Guest Ranch	SDWA	110050819101
MT	Crow agency	Crow Agency Water System	SDWA	110012922089
WY	Riverton	Gardens North Homeowners Assn	SDWA	110012838563
WY	Casper	Hidden Hills Mhp	SDWA	110047029158
WY	Kemmerer	Kemmerer-Diamondville Jpb	SDWA	110012840195
WY	Ten sleep	Lds Ten Sleep Meetinghouse	SDWA	110067318833
WY	Casper	Mills Spring Camp-7th Day Adv.	SDWA	110050786645
WY	Moran	Moosehead Ranch	SDWA	110050780124
WY	Thermopolis	Owl Creek Water District	SDWA	110063342351
WY	Douglas	Ridgewater Improvement Distr.	SDWA	110013031995
WY	Hulett	Roberts Trailer Park	SDWA	110010673716
WY	Beulah	Sand Creek Trading Post	SDWA	110050852680

WY	Unk	Sauk Trail	SDWA	110022501461
WY	Sinclair	Seminole Boat Club, Inc.	SDWA	110050893832
WY	Riverton	Sunridge Estates	SDWA	110013030978
WY	Targhee national park	Targhee Nf-Trail Creek Campground	SDWA	110050877262
WY	Rock springs	Volcic Mobile Home Park	SDWA	110047379494
WY	Dubois	Warm Springs Water District	SDWA	110016612236
WY	Dubois	Warm Springs Water District	SDWA	110016612236
WY	Newcastle	West End Water District	SDWA	110013030433
WY	Yellowstone national park	Yellowstone Np Old Faithful	SDWA	110013028963
CA	Anaheim	Carrington Real Estate Company	TSCA	110069553717
CA	Pioneertown	Csa 70 W-4 Pioneertown	SDWA	110013161586
AZ	Second mesa	Hopi Cultural Center	SDWA	110050990308
AZ	Cameron	Cameron Area Mines	CERCLA	110055651566
NJ	Hampton	Precision Automotive And Diesel	CAA	110062639113
AR	Bentonville	Earth Sciences Laboratories, Inc.	FIFRA	ICIS 3600218691
OK	Tulsa	Earthecycle	RCRA	ICIS 3600217426
MD	Gaithersburg	In Vitro Sciences, Inc.	FIFRA	ICIS 3600218636

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Enforcement Annual Results Numbers at a Glance for Fiscal Year 2016

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Accomplishments

The following is a list of key results of compliance and enforcement activities.

Civil Enforcement Results

Results	Concluded Cases
Pollution Reduced, Treated or Eliminated (Pounds) ² (Rounded to the nearest million)	324,000,000
Hazardous Waste Treated, Minimized, or Properly Disposed of (Pounds) ² (Rounded to nearest million)	61,938,000,000
Contaminated Soil to be Cleaned Up (Cubic Yds) ² (Rounded to nearest million)	17,000,000
Contaminated Water to be Cleaned Up (Cubic Yds) ² (Rounded to nearest million)	174,000,000
Stream Miles Restored or Created (Linear Feet)	48,342

Results	Concluded Cases
Wetlands Restored or Created (Acres)	409
People Protected by Safe Drinking Water Act Enforcement (# of People) ³ (Rounded to nearest thousand)	650,000
Toxic Material Abated (# Housing Units, Schools, Buildings)	63
Volume (gallons) of Untreated Discharge Eliminated ¹ (Rounded to nearest hundred million)	1,140,000,000
Hazardous Waste Prevented from Release (Pounds) ² (Rounded to nearest million)	2,000,000
Liquid in Underground Storage Tanks Prevented from Release (Gallons) ² (Rounded to nearest million)	3,000,000
Underground Injection Wells Prevented from Leaking (# of Wells)	4
Toxic Substance Contamination Prevented (# of Housing Units, Schools, Buildings)	0
Volume of Oil Spills Prevented (in Gallons) ¹ (Rounded to nearest hundred million)	610,000,000
Toxic Chemicals and Pesticides Prevented from Misuse/Environmental Release (Pounds) ² (Rounded to nearest million)	7,000,000
Stream Miles Preserved (Linear Feet)	14,913
Wetlands Preserved (Acres)	300

Civil Enforcement Monetary Commitments

Monetary Commitments from Concluded Cases	Commitment
Estimated Value of Complying Actions to be Taken in Response to EPA's Concluded Enforcement Actions (Injunctive Relief) ² (Rounded to nearest million)	\$13,700,000,000
Estimated Investments in Projects that Benefit the Environment and Public Health (Supplemental Environmental Projects) ² (Rounded to nearest million)	\$32,000,000

Monetary Commitments from Concluded Cases	Commitment
Administrative Penalties Assessed ² (Rounded to nearest hundred million)	\$44,000,000
Judicial Penalties Assessed ² (Rounded to nearest million)	\$5,746,000,000
State/Local Judicial Penalties Assessed From Joint Federal-State/Local Enforcement Actions ² (Rounded to nearest million)	\$17,000,000
Stipulated Penalties Paid ² (Rounded to nearest million)	\$14,000,000

Superfund Cleanup Enforcement

Superfund Cleanup	Commitment
Amount Committed by Liable Parties to Clean up Superfund Sites ² (Rounded to nearest million)	\$1,002,000,000
Amount Committed by Liable Parties to Pay for Government Oversight of Superfund Cleanups ² (Rounded to nearest million)	\$92,000,000
Amount Committed by Liable Parties to Reimburse the Government for Money Spent Cleaning up Superfund Sites ² (Rounded to nearest million)	\$55,000,000
** See Cleanup Enforcement Program Accomplishments	

Civil Enforcement and Compliance Activities

Activities	Results
Referrals of Civil Judicial Enforcement Cases to Department of Justice (DOJ)	152
Supplemental Referrals of Civil Judicial Enforcement Cases to DOJ	16
Civil Judicial Complaints Filed with Court	93
Civil Judicial Enforcement Case Conclusions	94
Administrative Penalty Order Complaints	1,369

Activities	Results
Final Administrative Penalty Orders	1,372
Administrative Compliance Orders	893
Cases with Supplemental Environmental Projects	107
Inspections/Evaluations ⁴ (Rounded to nearest hundred)	13,500
Civil Investigations	125

Criminal Enforcement Program

Activities	Results
Environmental Crime Cases Opened	170
Defendants Charged	184
Years of Incarceration	93
Fines and Restitution ² (Rounded to nearest million)	\$207,000,000
Value of Court Ordered Environmental Projects ² (Rounded to nearest million)	\$775,000
** See Criminal Enforcement Major Case Highlights	

** National Environmental Policy Act (NEPA) Program - See [NEPA Program Annual Results](#)

Where necessary to reflect EPA's understanding of the precision of the data, numbers in this document and elsewhere on this Web site have been rounded to two or three significant digits.

The primary source for the data displayed in this document are the official databases of record which are:

- Integrated Compliance Information System (ICIS)
- Criminal Case Reporting System
- Resource Conservation and Recovery Act Information (RCRAInfo)
- Compass (the Agency's official accounting system.)
- Manual Data Submission

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Enforcement Annual Results in EPA Regions for Fiscal Year 2016

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Accomplishments by EPA Region

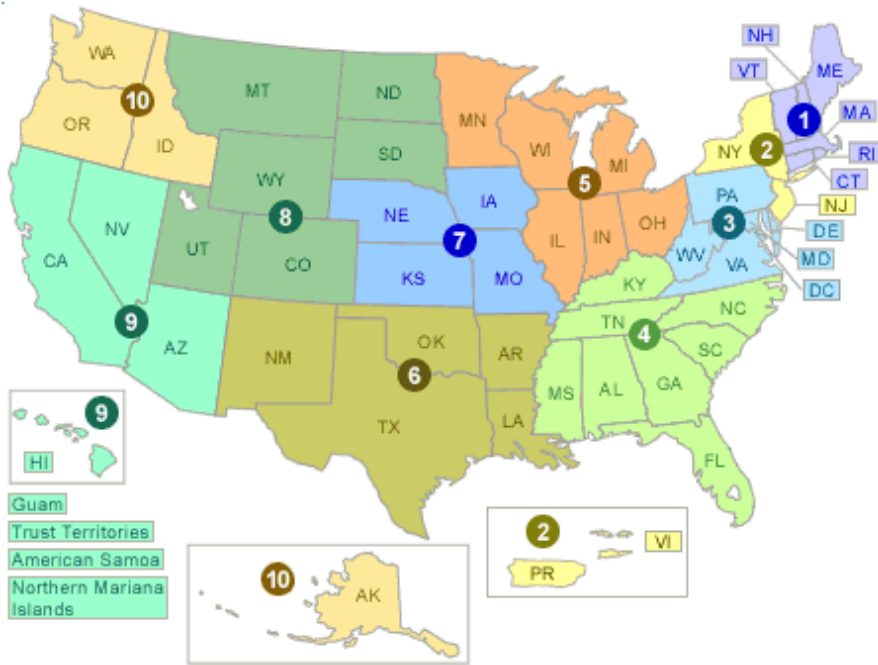
EPA's regional offices work with state and tribal governments to ensure compliance with our nation's environmental laws. Our civil and criminal enforcement actions are focused on the most serious water, air and chemical hazards including those identified in EPA's national enforcement initiatives and advance environmental justice by protecting overburdened communities.

To see results of EPA's enforcement work in our regional areas, select your state from the list or map below to go to your state's EPA regional enforcement results.

Select a Link

After you select a link, press go to jump to that link.

Go



EPA Region 1

Serving Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont

Accomplishments:

Civil Cases		
	Estimated pollution reduced, treated or eliminated (pounds) ¹ (1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)	647,702
	Estimated contaminated soil/debris to be cleaned up (cubic yards)	4,058
	Estimated contaminated water/aquifer to be cleaned up (cubic yards)	2,012
Enforcement Activities		
	Case initiations	93
	Case conclusions	91

EPA Region 2

Serving New Jersey, New York, Puerto Rico, and the U.S. Virgin Islands.

Accomplishments:

Civil Cases		
	Estimated pollution reduced, treated or eliminated (pounds) <u>1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)</u>	52,968,547
	Estimated hazardous waste treated, minimized, or properly disposed of (pounds) <u>1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)</u>	184,176,483
	Estimated contaminated soil/debris to be cleaned up (cubic yards)	12,890,272
	Estimated contaminated water/aquifer to be cleaned up (cubic yards)	165,276,851
Enforcement Activities		
	Case initiations	324
	Case conclusions	319

EPA Region 3

Serving Delaware, the District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia.

Accomplishments:

Civil Cases		
	Estimated pollution reduced, treated or eliminated (pounds) <u>1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)</u>	12,000,870
	Estimated hazardous waste treated, minimized, or properly disposed of (pounds) <u>1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)</u>	17,701
	Estimated contaminated soil/debris to be cleaned up (cubic yards)	381,840
	Estimated contaminated water/aquifer to be cleaned up (cubic yards)	384,113

Enforcement Activities		
	Case initiations	372
	Case conclusions	384

EPA Region 4

Serving Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee

Accomplishments:

Civil Cases		
	Estimated pollution reduced, treated or eliminated (pounds) ¹ . (1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)	113,793,795
	Estimated hazardous waste treated, minimized, or properly disposed of (pounds) ¹ . (1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)	51,198,401,058
	Estimated contaminated soil/debris to be cleaned up (cubic yards)	1,605,031
	Estimated contaminated water/aquifer to be cleaned up (cubic yards)	4,196,279
Enforcement Activities		
	Case initiations	322
	Case conclusions	318

EPA Region 5

Serving Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

Accomplishments:

Civil Cases		
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	Estimated pollution reduced, treated or eliminated (pounds) 1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)	35,393,901
	Estimated hazardous waste treated, minimized, or properly disposed of (pounds) 1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)	119,439
	Estimated contaminated soil/debris to be cleaned up (cubic yards)	413,844
	Estimated contaminated water/aquifer to be cleaned up (cubic yards)	990,506
Enforcement Activities		
	Case initiations	232
	Case conclusions	209

EPA Region 6

Serving Arkansas, Louisiana, New Mexico, Oklahoma, and Texas

Accomplishments:

Civil Cases		
	Estimated pollution reduced, treated or eliminated (pounds) 1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)	9,767,857
	Estimated hazardous waste treated, minimized, or properly disposed of (pounds) 1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)	10,540,930,000
	Estimated contaminated soil/debris to be cleaned up (cubic yards)	84,018
	Estimated contaminated water/aquifer to be cleaned up (cubic yards)	2,612
Enforcement Activities		
	Case initiations	364

	Case conclusions	346
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EPA Region 7

Serving Iowa, Kansas, Missouri, and Nebraska.

Accomplishments:

Civil Cases		
	Estimated pollution reduced, treated or eliminated (pounds) <u>1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)</u>	11,658,858
	Estimated hazardous waste treated, minimized, or properly disposed of (pounds) <u>1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)</u>	13,559,637
	Estimated contaminated soil/debris to be cleaned up (cubic yards)	164,897
Enforcement Activities		
	Case initiations	228
	Case conclusions	222

EPA Region 8

Serving Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

Accomplishments:

Civil Cases		
	Estimated pollution reduced, treated or eliminated (pounds) <u>1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)</u>	6,179,016
	Estimated hazardous waste treated, minimized, or properly disposed of (pounds) <u>1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)</u>	79,632

	Estimated contaminated soil/debris to be cleaned up (cubic yards)	569,391
	Estimated contaminated water/aquifer to be cleaned up (cubic yards)	178
Enforcement Activities		
	Case initiations	123
	Case conclusions	120

EPA Region 9

Serving Arizona, California, Hawaii, Nevada, American Samoa, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Guam, Marshall Islands, and Republic of Palau.

Accomplishments:

Civil Cases		
	Estimated pollution reduced, treated or Eliminated (pounds) 1. (1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)	73,968,438
	Estimated hazardous waste treated, minimized, or properly disposed of (pounds) 1. (1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)	363,428
	Estimated contaminated soil/debris to be cleaned up (cubic yards)	617,854
	Estimated contaminated water/aquifer to be cleaned up (cubic yards)	3,121,617
Enforcement Activities		
	Case initiations	126
	Case conclusions	123

EPA Region 10

Serving Alaska, Idaho, Oregon, and Washington.

Accomplishments:

Civil Cases		
	Estimated pollution reduced, treated or eliminated (pounds) 1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)	4,994,746
	Estimated hazardous waste treated, minimized, or properly disposed of (pounds) 1.(1. Projected pollution reductions to be achieved during the one year period after all compliance actions have been completed.)	34,700
	Estimated contaminated soil/debris to be cleaned up (cubic yards)	150,530
	Estimated contaminated water/aquifer to be cleaned up (cubic yards)	75
Enforcement Activities		
	Case initiations	158
	Case conclusions	154

Sources for Data displayed in this document: Integrated Compliance Information System (ICIS), Comprehensive Environmental Response, Compensation & Liability Information System (CERCLIS).

LAST UPDATED ON FEBRUARY 8, 2018

i We've made some changes to EPA.gov. If the information you are looking for is not here, you may be able to find it on the EPA Web Archive or the January 19, 2017 Web Snapshot.



Enforcement Annual Results Analysis and Trends for Fiscal Year 2016

[Overview](#)

[Case Map](#)

[Numbers at a Glance](#)

[Regional Results](#)

[Analysis and Trends](#)

Analysis and Trends

The links below show our progress in meeting performance targets and the trends in our enforcement results from fiscal year (FY) 2012 to 2016.

Government Performance and Results Act (GPRA)

Measure Number	GPRA External Performance Measure	FY 16 Target	FY 16 Actual (rounded)
409	Number of federal inspections and evaluations	15,500	13,500
410	Number of civil judicial and administrative enforcement cases initiated	2,700	2,400
411	Number of civil judicial and administrative enforcement cases concluded	2,400	2,400
412	Percentage of open consent decrees reviewed for overall compliance status	100%	100%

Measure Number	GPRA External Performance Measure	FY 16 Target	FY 16 Actual (rounded)
418	Percentage of criminal cases having the most significant health, environmental, and deterrence impacts	45%	68%
420	Percentage of criminal cases with charges filed	45%	37%
419	Percentage of criminal cases with individual defendants	75%	85%
421	Percentage of conviction rate for criminal defendants	85%	94%
400 *	Millions of pounds of air pollutants reduced, treated, or eliminated through concluded enforcement actions	310 M lbs	239 M lbs
402 *	Millions of pounds of water pollutants reduced, treated, or eliminated through concluded enforcement actions	250 M lbs	69 M lbs
404 *	Millions of pounds of toxic and pesticide pollutants reduced, treated, or eliminated through concluded enforcement actions	2.3 M lbs	16 M lbs
405	Millions of pounds of hazardous waste pollutants reduced, treated, or eliminated through concluded enforcement actions	2,400 M lbs	61,900 M lbs
417	Millions of cubic yards of contaminated soil and groundwater media EPA has obtained commitments to clean up as a result of concluded CERCLA and RCRA corrective action enforcement actions.	200 M cu yds	190 M cu yds
285	Percentage of Superfund sites having viable, liable responsible parties other than the federal government where EPA reaches a settlement or takes an enforcement action before starting a remedial action.	99%	100%

Measure Number	GPRA External Performance Measure	FY 16 Target	FY 16 Actual (rounded)
078	Percentage of all Superfund statute of limitations cases addressed at sites with unaddressed total past costs equal to or greater than \$500,000.	100%	100%

* GPRA measures 400, 402, and 404 respectively quantify pollutant releases that are or will be reduced, treated or eliminated to air, water, and land as a result of EPA enforcement actions. Measure 404 includes reductions of pollutant releases to land (e.g., RCRA non-hazardous waste, oil, gasoline, or solvents), as well as reductions in distribution of illegal products, including pesticides and new and existing chemicals.

Civil Enforcement Results

- [Estimated Value of Administrative and Civil Judicial Complying Actions \(Injunctive Relief\)\(PDF\)](#)
- [Administrative and Civil Judicial Penalties Assessed \(PDF\)](#)
- [Hazardous Waste Treated, Minimized or Properly Disposed \(PDF\)](#)
- [Commitments to Reduce, Treat or Eliminate Pollution \(PDF\)](#)

Criminal Enforcement Results

- [Value of Fines and Restitution and Court Ordered Environmental Projects \(PDF\)](#)
- [Environmental Crime Cases Opened, Defendants Charged and Sentencing Results – Years of Incarceration \(PDF\)](#)

Superfund Enforcement Results

- [Cleanup Commitments \(PDF\)](#)

Other Civil Enforcement Results

- [Volume of Contaminated Soil and Water to be Cleaned Up \(PDF\)](#)
- [Federal Inspections and Evaluations \(PDF\)](#)
- [Civil Enforcement Case Initiations and Conclusions \(PDF\)](#)
- [Supplemental Environmental Projects \(PDF\)](#)

Single Document Containing All Charts and Graphs

You may need Adobe Reader to view files on this page. See EPA's [About PDF](#) page to learn more.

- [Fy16 Enforcement Annual Results Data Graphs \(PDF\)](#). (14 pp, 167 K, Dec. 19, 2016)

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U.S. EPA ARCHIVE DOCUMENT

Fiscal Year 2016 EPA Enforcement and Compliance Annual Results

**Prepared by the Office of Enforcement and Compliance Assurance
U.S. Environmental Protection Agency**

December 19, 2016

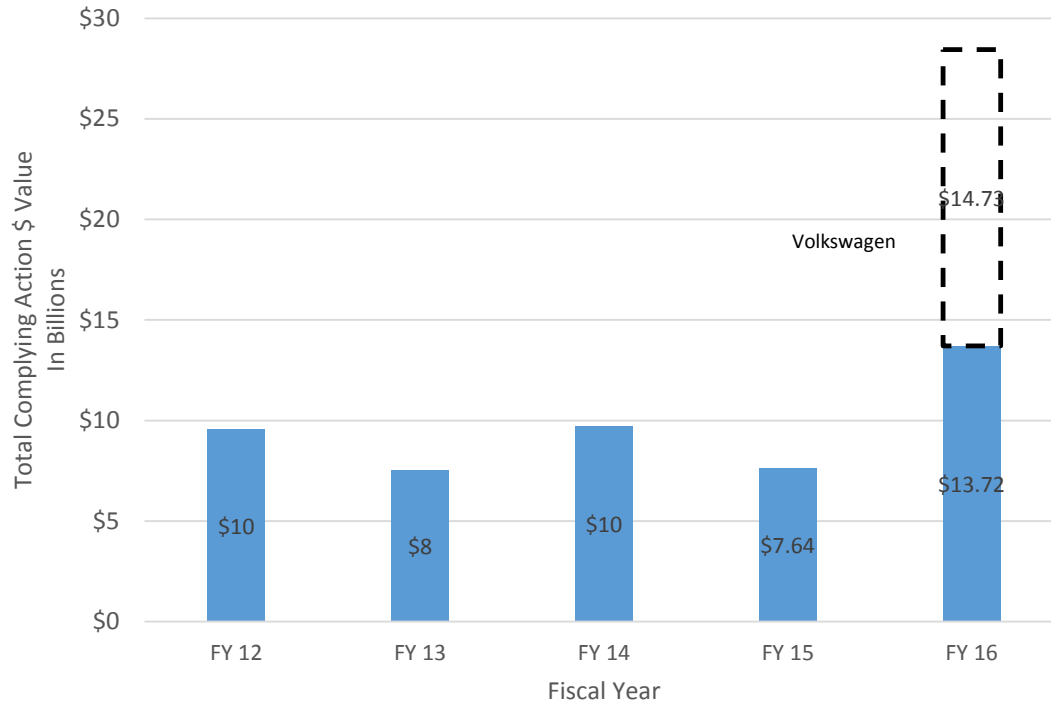
FY 2016 Enforcement and Compliance Annual Results

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FY 2016 Enforcement and Compliance Annual Results

Estimated Value of Administrative and Civil Judicial Complying Actions (Injunctive Relief) FY 2012 – FY 2016



➤ In FY 2016, EPA enforcement actions required companies to invest more than **\$13.7 billion** in actions & equipment to control pollution (injunctive relief.)

➤ Injunctive relief totals vary widely from year to year depending on the timing of resolution of the largest cases.

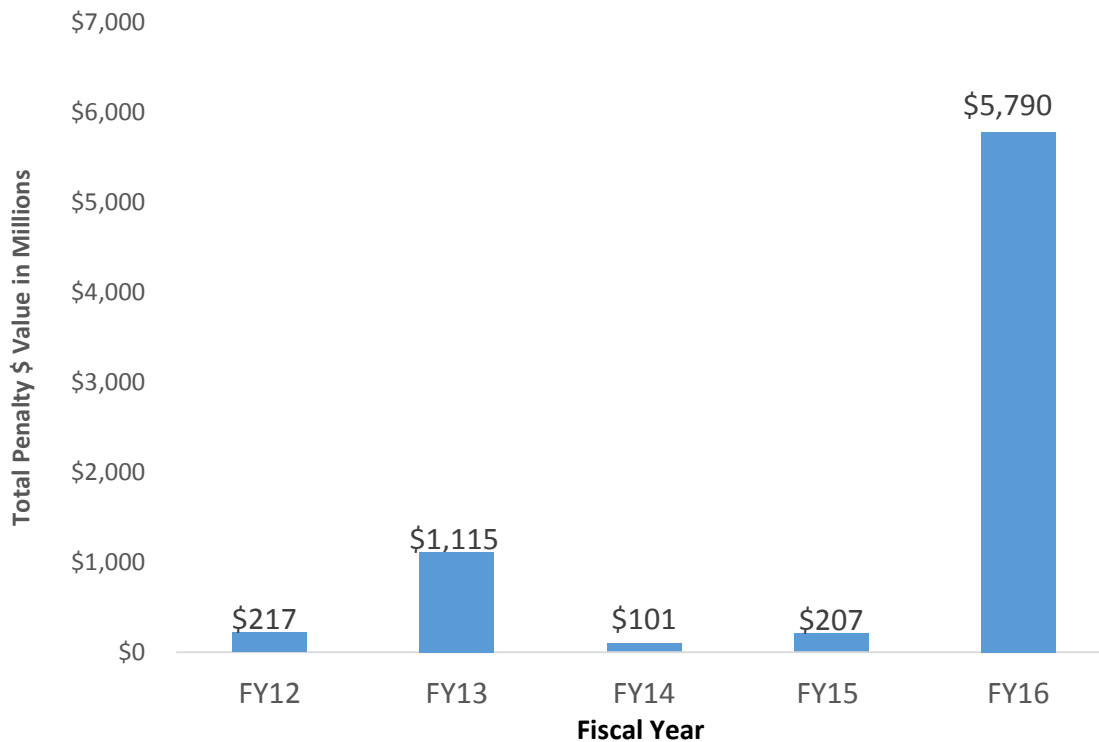
➤ A partial case settlement with Volkswagen, lodged with the court in FY 2016 and entered by the court early in FY 2017, contributed up to an additional estimated \$14.73B in injunctive relief (shown with a dashed bar since it was entered just after the end of the fiscal year).

Note: All prior FY dollar figures in this report are adjusted to reflect the current value in FY 2016 dollars based on the monthly rate of inflation/deflation as determined by the U.S. Department of Labor Consumer Price Index for All Urban Consumers.
Data Source: Integrated Compliance Information System (ICIS)
Prepared by: OC/ETDD/DSIMB
October 26, 2016

FY 2016 Enforcement and Compliance Annual Results

Administrative and Civil Judicial Penalties Assessed

FY 2012 – FY 2016



- In FY 2016, EPA obtained nearly **\$5.8 billion** in federal administrative and civil judicial penalties.
- The FY 2016 results were dominated by the record setting **\$5.6 billion** Clean Water Act penalty from BP Exploration and Production Inc., in the Deepwater Horizon case
- Penalties assessed vary from year to year depending on the timing of resolution of the largest cases.

Note: All prior FY dollar figures in this report are adjusted to reflect the current value in FY 2016 dollars based on the monthly rate of inflation/deflation as determined by the U.S. Department of Labor Consumer Price Index for All Urban Consumers.

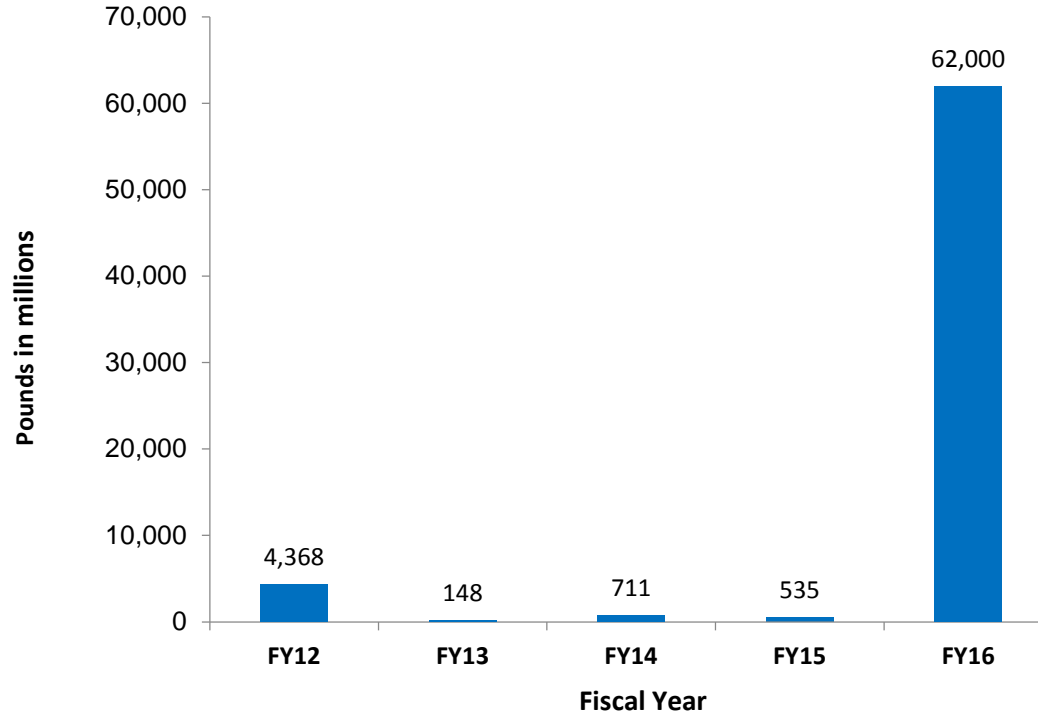
Data Source: Integrated Compliance Information System (ICIS)
 Prepared by: OC/ETDD/DSIMB
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FY2016 Enforcement and Compliance Annual Results

Estimated Environmental Benefits

Hazardous Waste Treated, Minimized, or Properly Disposed FY 2012 – FY 2016



➤ In FY 2016, EPA enforcement actions required companies to commit to treat, minimize, or properly dispose of an estimated **62 billion** pounds of hazardous waste.

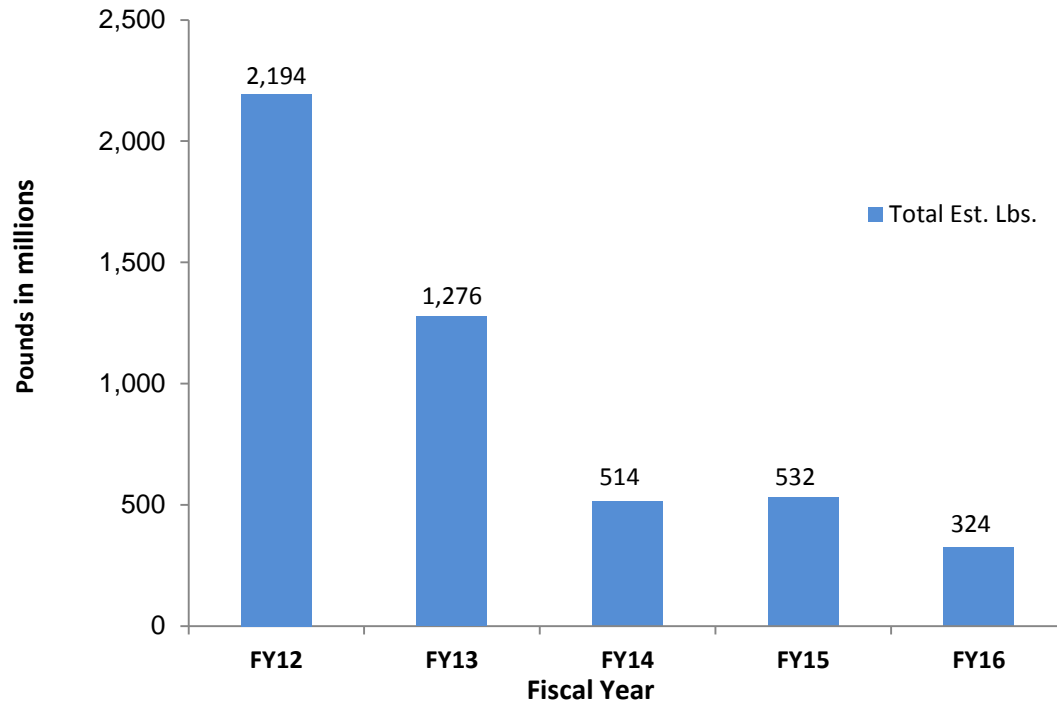
➤ In FY 2016, the IMC Phosphates Co. (Mosaic Fertilizer), a RCRA case, accounted for over 99% of the hazardous waste total of 62 billion pounds.

➤ Results vary from year to year depending on the timing of resolution of the largest cases.

Data Source: Integrated Compliance Information System.
Prepared by: OC/ETDD/DSIMB
October 26, 2016

FY 2016 Enforcement and Compliance Annual Results

Estimated Environmental Benefits Commitments to Reduce, Treat, or Eliminate Pollution FY 2012 – FY 2016



Data Source: Integrated Compliance Information System.
Prepared by: OC/ETDD/DSIMB
October 26, 2016

➤ In FY 2016, EPA enforcement actions required companies to commit to reduce releases of pollution by an estimated **324 million** pounds per year.

➤ The pounds of pollution reduced numbers in past years were largely conventional pollution emissions from coal fired power plants and municipal waste water systems. EPA addressed the largest of these systems first, so later cases in these sectors generally involved less pollution. In recent years we have increased our focus on toxic pollution, which involves more toxic, but smaller volume, pollution.

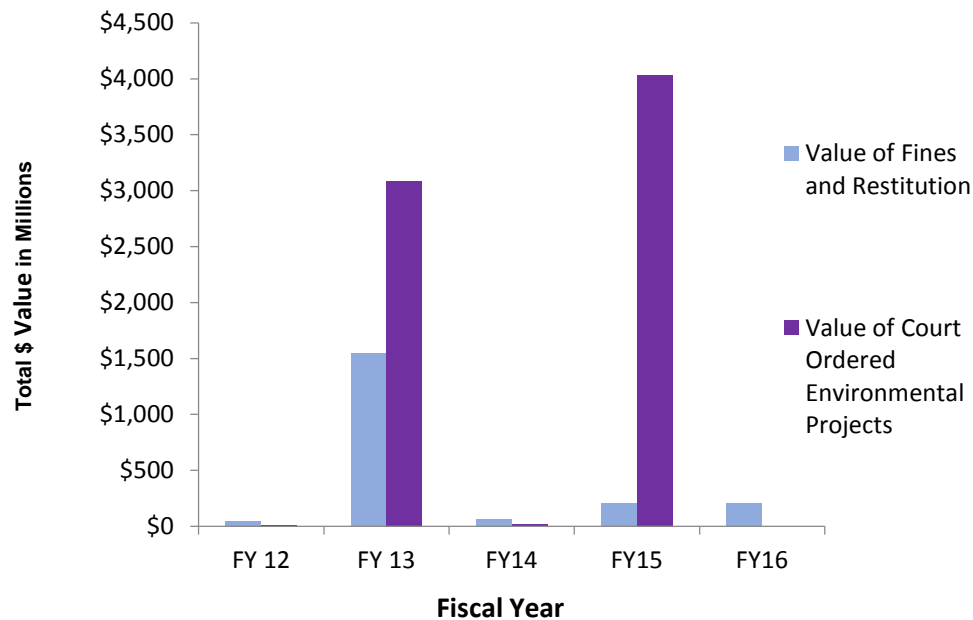
➤ Some of the largest cases, e.g., BP Deepwater and VW, do not have pollution reductions captured in this measure.

➤ Pounds of hazardous waste reduced in FY16, reflected on a different slide, was 62 billion pounds.



FY 2016 Enforcement and Compliance Annual Results

Criminal Enforcement Value of Fines and Restitution and Court Ordered Environmental Projects FY 2012 – FY 2016



➤ Criminal fines and restitution punish misconduct, deter other violators and, along with court-ordered environmental projects, help to remedy the harm caused by the criminal conduct.

➤ Criminal results in recent years have been dominated by two very large cases: BP Deepwater Horizon, resolved in 2013, and Duke Energy coal ash spill, resolved in 2015.

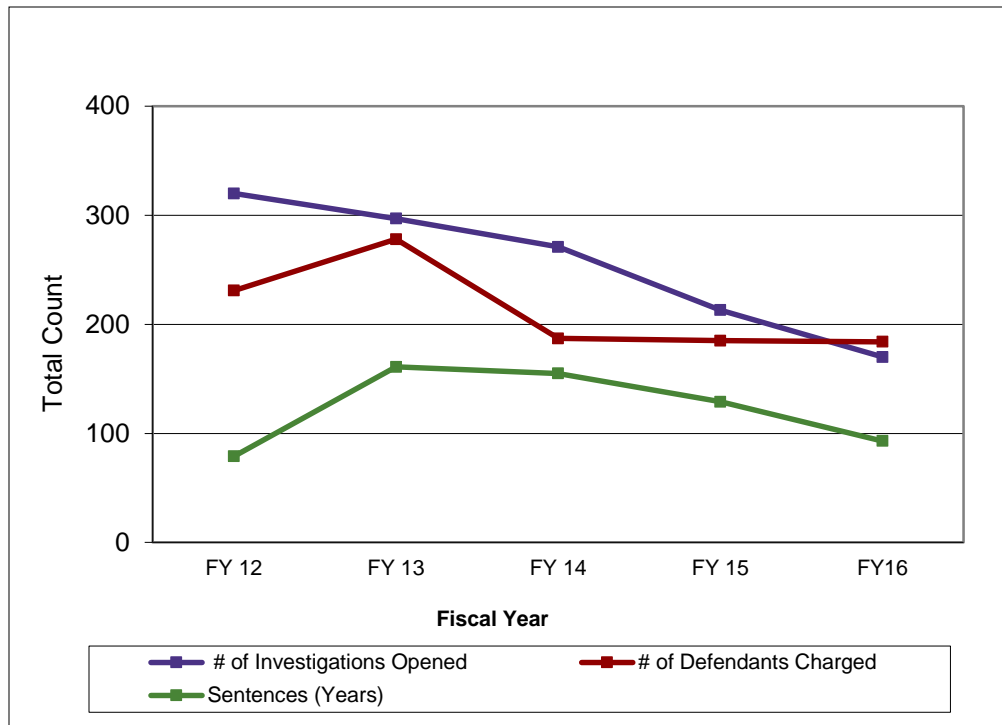
Note: All prior FY dollar figures in this report are adjusted to reflect the current value in FY 2016 dollars based on the monthly rate of inflation/deflation as determined by the U.S. Department of Labor Consumer Price Index for All Urban Consumers.

Data Source: Criminal Case Reporting System
Prepared by: OC/ETDD/DSIMB
October 26, 2016



FY 2016 Enforcement and Compliance Annual Results

Criminal Enforcement Environmental Crime Cases Opened, Defendants Charged, and Sentencing Results – Years of Incarceration FY 2012 – FY 2016



- The criminal program continued in FY16 to focus on complex cases that involve a serious threat to human health and the environment or that undermine program integrity.
- Despite declining budgets resulting in declines in the total number of investigations opened, the number of defendants charged remained level with last year, reflecting the greater complexity of cases handled in the criminal program.

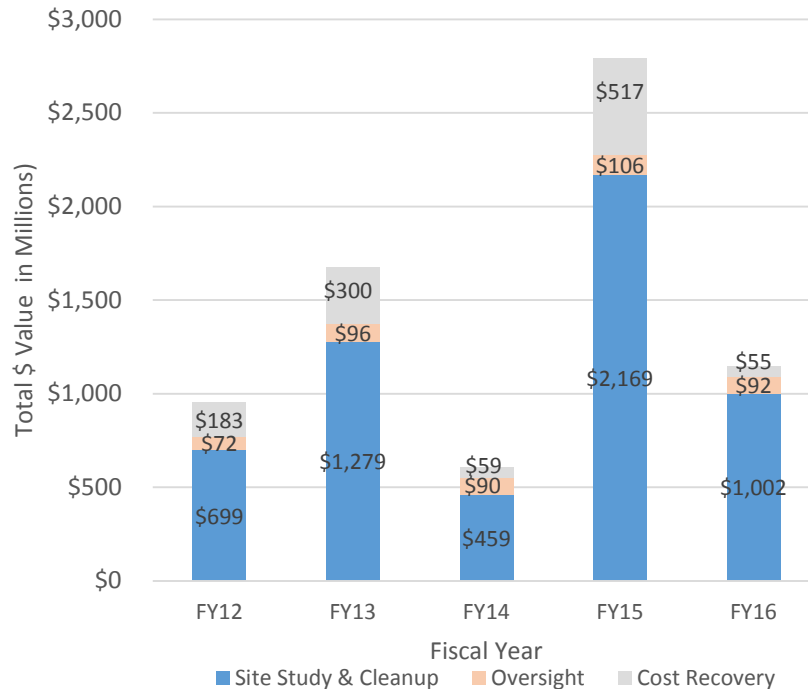
Data Source: Criminal Case Reporting System
Prepared by: OC/ETDD/DSIMB
October 26, 2016



FY 2016 Enforcement and Compliance Annual Results

Superfund Results

FY 2012 – FY 2016



- In FY 2016, private party Superfund cleanup commitments exceeded \$1 billion. Additionally, EPA billed private parties for \$92 million in “oversight” costs, the third highest amount ever billed during a fiscal year.
- The total dollar value of cleanup commitments is driven by settlements requiring responsible parties to conduct or pay for cleanup. Cleanup commitments generally vary from year to year depending on when the largest cases are resolved.
- FY 15 was an unusual year in Superfund enforcement history, due to the record breaking Anadarko settlement.

Note: All prior FY dollar figures in this report are adjusted to reflect the current value in FY 2016 dollars based on the monthly rate of inflation/deflation as determined by the U.S. Department of Labor Consumer Price Index for All Urban Consumers. Totals include "allowed claims" under bankruptcy settlements.

Data Source for Cleanup and Cost Recovery: FY16 Superfund Enterprise Management System (SEMS); FY14 & FY15 Manual Reporting; FY12 & FY13 Comprehensive Environmental Response, Compensation & Liability Information System (CERCLIS).

Data Source for Oversight: Compass Business Objects Reporting (CBOR)

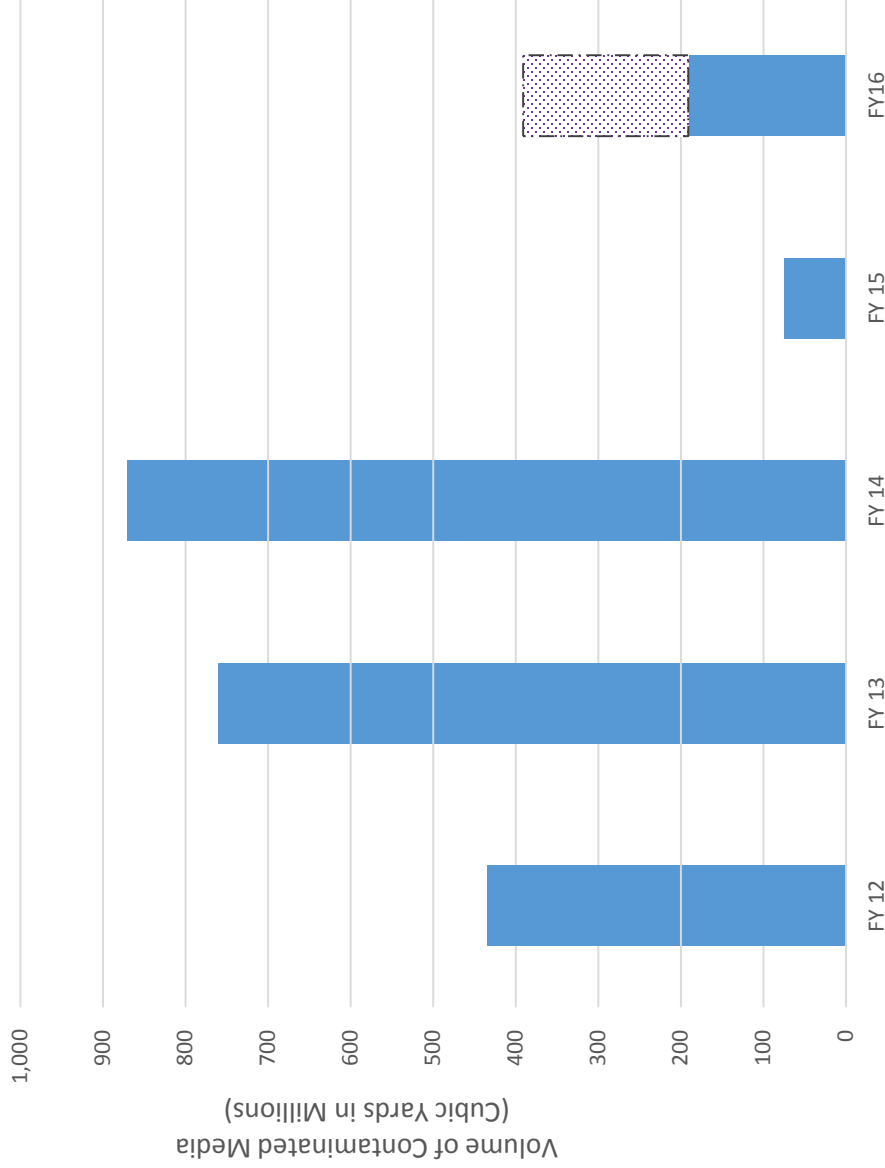
Prepared by: OC/ETDD/DSIMB

October 26, 2016

FY2016 Enforcement and Compliance Annual Results

Estimated Environmental Benefits

Volume of Contaminated Soil and Water to be Cleaned Up FY 2012 – FY 2016



➤ In FY 2016, the Agency obtained commitments for remediation of an estimated **17 million** cubic yards of contaminated soil and an estimated **174 million** cubic yards of contaminated water as a result of CERCLA and RCRA corrective action enforcement.

➤ An additional 200 million cubic yards of contaminated water will be cleaned up by a large case that was lodged, but not entered, in FY 16 (shown in dotted bar).

➤ VCMA totals vary widely from year to year depending on the timing of resolution of the largest cases. Three big cases in FY 2013 and FY 2014 accounted for a vast majority of the soil and water to be cleaned up in those years.

Contaminated Soil and Water to be Cleaned Up from FY16 Lodged Cases

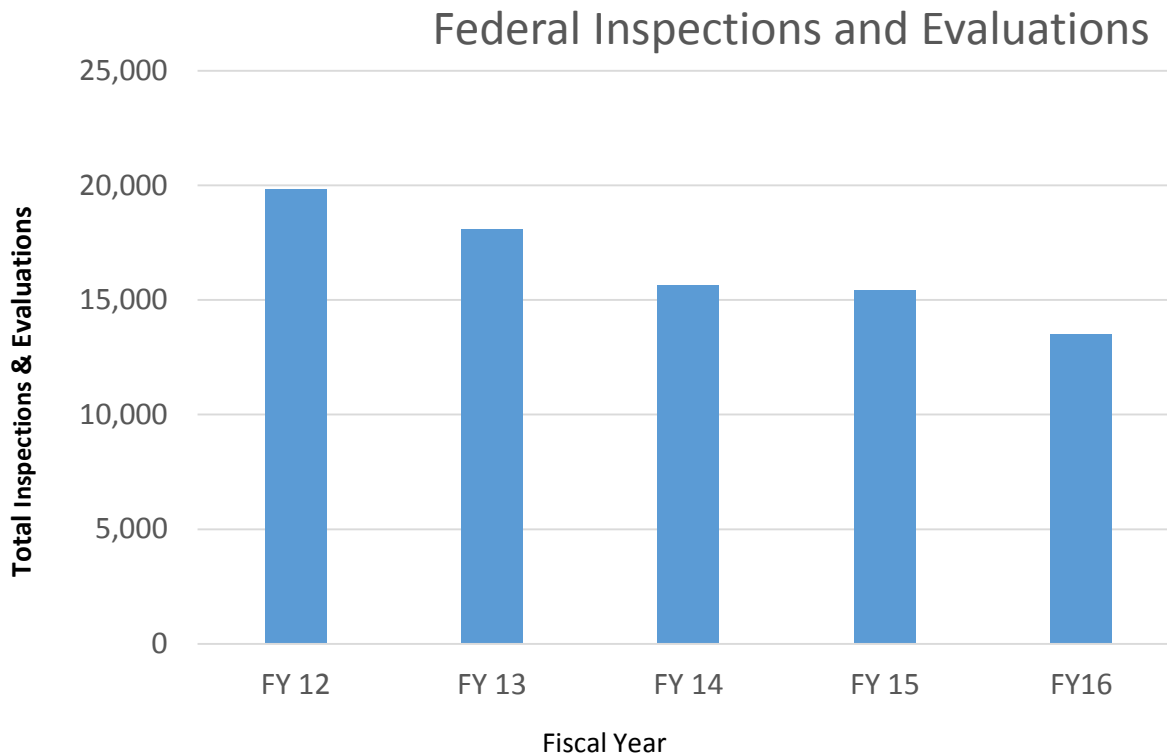
Data Source: Integrated Compliance Information System.
Prepared by: OC/ETDD/DSIMB
October 26, 2016



FY 2016 Enforcement and Compliance Annual Results

Federal Inspections and Evaluations

(Conducted by EPA)
FY 2012 – FY 2016



- In FY 2016, EPA conducted more than 13,500 inspections/ evaluations.
- As EPA's budget has declined, the total number of inspections conducted by EPA has declined as well. EPA continues to pursue additional means of gathering information about facility compliance, to supplement our on the ground inspections.

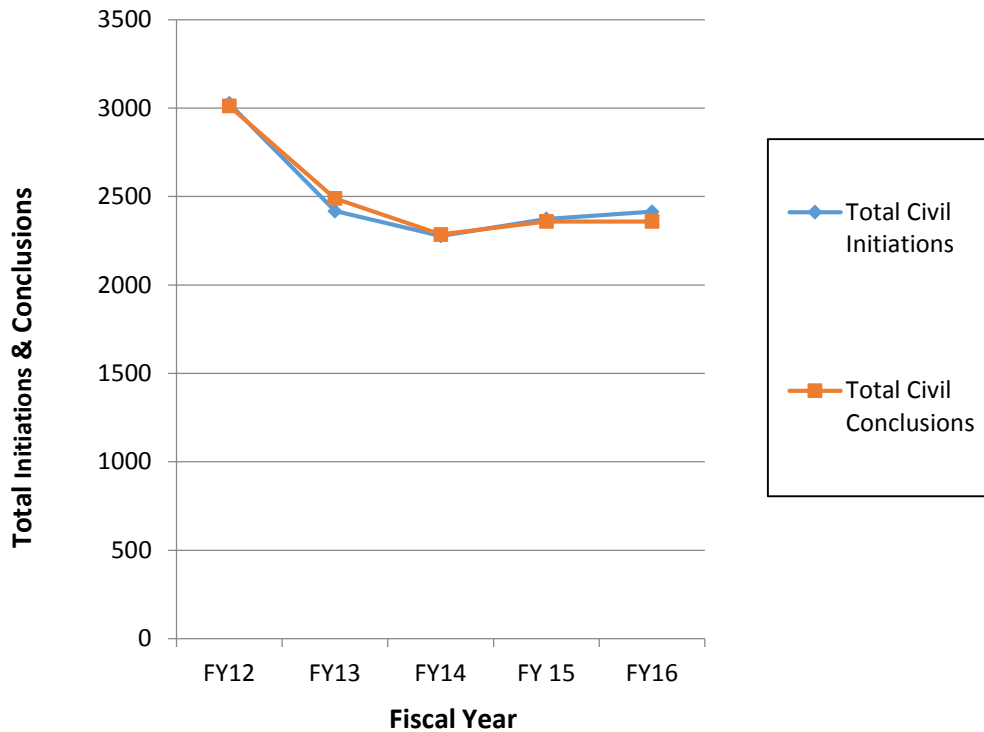
Data Source: Integrated Compliance Information System (ICIS), ICIS-NPDES, ICIS-AIR, RCRAInfo, and manual reporting.
Prepared by: OC/ETDD/DSIMB
October 26, 2016



FY2016 Enforcement and Compliance Annual Results

Civil Enforcement Case Initiations and Conclusions

FY 2012 – FY 2016



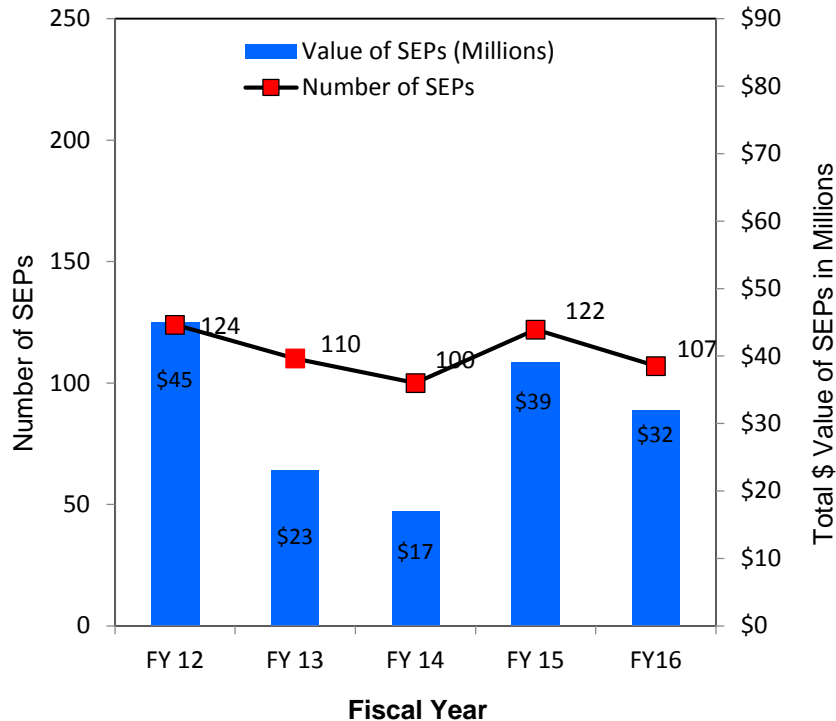
- In FY 2016, EPA initiated more than **2,400** civil judicial and administrative cases.
- In FY 2016, EPA concluded nearly **2,400** civil judicial and administrative cases

Data Source: Integrated Compliance Information System.
Prepared by: OC/ETDD/DSIMB
October 26, 2016

FY 2016 Enforcement and Compliance Annual Results



Supplemental Environmental Projects FY 2012 – FY 2016



- In FY 2016, EPA enforcement settlements included voluntary agreements to undertake an estimated **\$32 million** in Supplemental Environmental Projects (SEPs).
- SEPs are projects that are not otherwise legally required that have a close nexus to the violations and that a defendant/respondent agrees to undertake to benefit the community harmed by the violations.
- EPA strongly supports SEPS that have a nexus to the violations and that benefit the community harmed by the violations.

Note: All prior FY dollar figures in this report are adjusted to reflect the current value in FY 2016 dollars based on the monthly rate of inflation/deflation as determined by the U.S. Department of Labor Consumer Price Index for All Urban Consumers.

Data Source: Integrated Compliance Information System.
Prepared by: OC/ETDD/DSIMB
October 26, 2016

FY 2016 Enforcement and Compliance Annual Results

Acronyms and Descriptions for Statutes/Sections



CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act ("Superfund")
CWA	Clean Water Act
EPCRA	Emergency Planning & Community Right-to-Know Act
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act
MPRSA	Marine Protection, Research, and Sanctuaries Act
RCRA	Resource Conservation & Recovery Act
SDWA	Safe Drinking Water Act
TSCA	Toxic Substances Control Act
Title 18	U.S. Criminal Code - Crimes and Criminal Procedure