Additional FY 2017 Contributions to EPA's Portfolio of Evidence

Project in Brief	Purpose and Brief Description	List of Results and Conclusions	Significance
EPA's WaterSense Program at 10 Years Completed: FY 2017 Office of Inspector General 17-P-0352 /OPE-FY17-0001 <u>https://www.epa.gov/sites/ production/files/2017- 08/documents/_epaoig_201</u>	Examined if accomplishments reported by the EPA's WaterSense Program reflected actual results.	OIG found that EPA's WaterSense program adhered to good practices in program management, achieved significant returns on investment, documented its controls on water savings and product performance, and obtained broad partner and consumer support.	
70801-17-p-0352.pdf EPA is Taking Steps to Improve State Drinking Water Program Reviews and Public Water Systems Compliance Data Completed: FY 2017 Office of Inspector General 17-P-0326 / OPE-FY16-0032 <u>https://www.epa.gov/sites/ production/files/2017- 07/documents/_epaoig_201</u> 70718-17-p-0326.pdf	Evaluated how the EPA ensures that SDWA primacy states monitor and report drinking water sampling results from public water systems. Also determine how the EPA can improve its oversight of state drinking water sampling programs.	OIG found there are limitations to both of the tools that EPA uses as oversight for state work. There is not a level of comprehensiveness and region-to-region consistency shown in previous data verifications. Also, there is the risk that states did not provide reliable information to the EPA data system on monitoring and reporting violations.	
EPA Needs to Provide Leadership and Better Guidance to Improve Fish Advisory Risk Communications Completed: FY 2017 Office of Inspector General 17-P-0174 / OPE-FY15-0061 <u>https://www.epa.gov/sites/ production/files/2017- 04/documents/ epaoig 201</u> 70412-17-p-0174.pdf	Evaluated the extent the EPA ensures that federal, state, and tribal risk communication efforts protect the public from mercury contamination through the consumption of fish.	OIG found that some subsistence fishers consume large amounts of contaminated fish without health warnings. Also, found that the EPA has not assessed methylmercury as proposed in the agency's published Integrated Risk Information System (IRIS) agendas.	Office of Water prioritized updating Fish Advisory Risk Communication Guidance to States and Tribes and development and increased distribution of Fish/Shellfish Newsletter to tribes in FY18 Division -level operating plan.

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Using Toxic Release Inventory (TRI) data to identify potential non- compliance with TRI and other programs Completed: FY 2017 Office of Inspector General Report No. 18-P-0001 <u>https://www.epa.gov/office</u> <u>-inspector-general/report- analysis-toxics-release- inventory-data-identifies- few-noncompliant</u>	Evaluated EPA's use of TRI data in identifying potentially non-compliant facilities	OIG draft report recommended that OCSPP develop a mechanism to identify potential Risk Management Plan (RMP) non-filers by using an automated comparison of RMP and TRI data	EPA responded, in part, that the agency has taken a preventive approach by incorporating checks in TRI reporting software to alert TRI facilities that they may be required to file RMP (and NPDES) reports. The TRI Program also conducts annual data quality outreach, which has included a comparison of facilities that filed RMP reports with facilities that filed TRI reports for reporting years 2011-2015, to identify facilities that may be non-compliant with TRI reporting requirements.
Space reduction Ongoing Office of Administration and Resource Management	Reduce EPA's owned and leased space footprint	Since FY 2012 the EPA released over 517 thousand square feet of office space nationwide, resulting in a cumulative annual rent avoidance of nearly \$20 million across all appropriations.	OARM's senior managers remain committed to their priorities outlined in the agency's space reduction plan.
Strategic sourcing Ongoing Office of Administration and Resource Management	Improve EPA's buying power.	In FY 2017 OARM's use of data and program evaluation tools enabled the agency to monitor specific, measurable data related to print services, cellular services, shipping, Microsoft software, voice services, office supplies, and lab supplies for a total of \$3.7 million avoided costs. At the end of FY 2017, a total of \$11.8 million had been achieved since FY 2013.	OARM continues to apply this same data driven approach to avoid costs in these seven categories: print services, cellular service, shipping, Microsoft software, voice service, office supplies, and lab supplies.

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Our Nation's Air: Status and Trends through 2016 Completed: FY 2017 Office of Air and Radiation <u>https://gispub.epa.gov/air/t</u> <u>rendsreport/2017/</u>	Presents the trends in the nation's air quality, and summarizes the detailed information found at EPA's AirTrends website annually. EPA is committed to protecting public health by improving air quality and reducing air pollution. Annual emissions estimates are used as one indicator of the effectiveness of the air program.	Nationally, concentrations of the criteria air pollutants have dropped significantly since 1990. Between 1970 and 2016, the combined emissions of the six common pollutants (PM2.5 and PM10, SO2, NOx, VOCs, CO and Pb) dropped by 73 percent.	This progress occurred while the U.S. economy continued to grow, Americans drove more miles and population and energy use increased.
Title V Permitting Program Reviews On-going Office of Air and Radiation <u>https://www.epa.gov/title-v-operating-permits/epa-oversight-operating-permits-program</u>	EPA periodically audits state and local permitting programs as part of its responsibility to oversee delegated and approved air permitting programs.	Results vary and are specific to the program being reviewed. For example, in FY 2017 EPA completed a program evaluation of Maryland's approved title V Operating Permits program, including a review of Maryland Department of the Environment's permitting process and fees, among other topics. (For additional information, please see https://www.epa.gov/sites/p roduction/files/2017- 10/documents/mde_title_v evaulation.pdf)	The reviews evaluate the overall effectiveness of the planning, permitting, monitoring and compliance, and enforcement programs to identify: (1) good practices implemented by the state/tribal agency, (2) areas needing improvement within the state/tribal program, and (3) ways in which the EPA can improve oversight.
Process for State Implementation Plans (SIPs) Ongoing Office of Air and Radiation	OAR and the Regions continue to make the SIP process more efficient and effective while fulfilling Clean Air Act statutory responsibilities.	Process has resulted in improved communication and cooperation between EPA and states prior to SIP submittal and SIP development tools. This includes development of an online resource for release in the late Fall for recommended best practices, tools and templates for processing and preparing SIPs.	Data is used to better utilize resources, improve coordination, and support planning, and managing SIP processing backlog. The recommended best practices, tools and templates are being implemented by regions and states to assist with communication and

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			planning for SIP development.
Performance Evaluation Program (PEP) and National Performance Audit Program (NPAP) Process Re- Engineering Project Ongoing Office of Air and Radiation	The National Ambient Monitoring Program uses two audit processes to ensure the stability and reliability of the national ambient air monitoring network. Both processes, the Performance Evaluation Program (PEP) and the National Performance Audit Program (NPAP), were manual in nature and required considerable quality assurance to ensure accuracy.	EPA began a multi-year Lean project in March 2015 to re-engineer both audit processes has devised improvements to make them more efficient and reduce/eliminate the manual steps in the process. The goal is to facilitate the timely (in weeks for NPAP, months for PEP) reporting of audit data by State, Local, and Tribal air pollution control agencies to the Air Quality System.	NPAP was addressed first, and the new process was successfully implemented in February 2016. EPA expects to implement the new PEP process by October 2017. Tools required to support the new process were developed in-house and will be maintained by EPA.
Data Analysis and Review System (DARS) Ongoing Office of Air and Radiation	DARS is a suite of tools for analyzing and reviewing emissions data submitted under Part 75 - Continuous Emission Monitoring.	The tools allow users to access, review, and analyze facility information (e.g., equipment, controls, monitoring systems), measurement practices, QA testing data, and emissions data.	When finalized, the tools will be used to target facilities for audits, support facility audits, assess compliance with existing environmental programs, and support development of new programs.
Correspondence Process Ongoing Office of Air and Radiation	OCIR, worked to Lean the OAR portion of the process for drafting and reviewing responses to Congressional correspondence.	adding a triage step at the beginning of the process to create higher quality initial drafts and creating templates for common topics that speed responses on those or closely-related topics.	weekly, OAK tracks the amount of time Congressional correspondence "sits" in each sub-office, and uses the information to identify which letters may be moving too slowly. The data allows EPA to determine whether it is topic- related (i.e. the response is difficult to write, and therefore is expected to take extra time) or whether there

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			is a process issue that
			needs to be resolved.
Office of Pollution and Prevention Toxics Lean Exercise on Confidential Business Information (CBI) Review Process Completed: FY 2017 Office of Chemical Safety and Pollution Prevention	OPPT and OGC applied Lean practices in FY 2017 to develop a path forward for the efficient Agency implementation of TSCA section 14(g) CBI reviews, improving reliability, effectiveness, efficiency and transparency of the CBI review process.	The project created a: (1) front-end quality control and decision-making process, (2) queue for managing TSCA Section 5 New Chemicals submissions containing CBI claims, (3) delegation of review and signature authority at OGC, and (4) package development and delivery by OPPT's Confidential Business Information Center (CBIC), along with numerous other	OPPT used the findings/results of the project to reduce learning time, create a more consistent flow of work, create agility in problem solving when issues arose and initiate work on an automated workflow.
Evaluation of BCBA 2007	The EDA Degion 7 Dresses	Changes.	The BCBA program in
Letter Process Completed: FY 2017 Office of Enforcement and Compliance Assurance Region 7	Excellence Team facilitated an evaluation of the RCRA compliance officer's decision process/criteria regarding whether to send a RCRA section 3007 information request letter following an inspection.	were not utilizing a consistent approach in determining appropriate programmatic actions following a site inspection. Therefore, the program was issuing more 3007 letters asking for additional information than what is required. Each letter issued adds an additional 30+ days to any subsequent enforcement action. This activity developed a Decision Tree for the RCRA	Region 7 utilizes the Decision Tree as a tool to standardize their work and ensure consistency in their approach to program actions. It is anticipated that fewer 3007 letters will be needed saving the Agency time and money. The team also believes the decision tree will provide an excellent training tool for new staff.
		program to utilize to ensure that all compliance officers were utilizing a consistent approach in determining appropriate follow-up actions.	

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Evaluation of Compliance Inspection Tracking System Completed: FY 2017 Office of Enforcement and Compliance Assurance Region 7	Improve the process for approving annual and quarterly inspection targets to ensure internal/State partner timelines are met; include refinement of local data management software (INSPECTrax) and development of a SharePoint workflow to drive the process.	Most of the target list rework and lost time resulted from internally routing lists that had not been fully vetted and approved within the originating program office (PO), in addition to delays in uploading large amounts of unnecessary target data into INSPECTrax. The process was further degraded by the lack of a central tracking mechanism, linked to an agreed upon timeline, to ensure all 12 target lists (3 Programs x 4 States) were being negotiated, approved, and assembled into the final list prior to the September 30 State delivery deadline.	Several changes were made to the existing process to add efficiency and eliminate rework including: - Establishing a timeline for each stage to introduce pull into the process; - Obtain PO Director approval of the target lists prior to distributing them for coordination; - Separating INSPECTrax data upload into two- stages where only data needed for coordination is initially uploaded and supplemental data needed to complete the inspection is added later in the process; and - Developing a SharePoint workflow aligned with the timeline and with automatic trigger mechanisms to manage and track the process.
Annual Data Collection on the Impact of Region 2's Clean and Green Superfund Remediation Policy Completed: Annually Office of Land and Emergency Management	Tracking CO2 reductions and tons of waste materials recycled at Superfund sites as a result of the Region 2 <i>Clean and</i> <i>Green Remediation Policy</i> . (https://www.epa.gov/gree <u>nercleanups/epa- region-2-</u> <u>clean-and-green-policy</u>)	In FY 2017, Region 2 achieved 9,665 Metric Tons of CO2 reductions, and recycled 32,969 tons of waste materials at Superfund sites by implementing this policy. Since the policy was issued in 2010, Region 2 has achieved reductions of over 565,000 tons of CO2.	To help Region 2 understand and track over time the results achieved with its <i>Clean</i> <i>and Green</i> Policy, which is included in its: • Agreements with EPA contractors who perform fund- lead cleanups. • Interagency Agreements with the U.S. Army Corps of Engineers, to ensure that the

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			Corps includes
			the requirement
			in its
			agreements
			with its
			contractors who
			carry out much
			fund load work
			narticularly at
			larger and more
			expensive sites.
			Enforcement
			instruments such as
			administrative orders
			and consent decrees.
Removal Characterization	To identify data obtained in	One major finding was that	Better data reporting
Project	the Removal program,	data collection efforts have	and other
	analyze multi-year trends	significantly improved since a	improvements in
Completed: FY 2017	and determine if more data	Dec. 27, 2011 memo that	accountability.
Office of Land and	should be collected to	requested more data from	
Emergency Management	of the Removal program	completions (such as	
		amounts of specific	
		contaminants). However,	
		more information is needed	
		from the program.	
Resource Conservation and	Reviewed and analyzed the	EPA is working on	Actions have already
Recovery Act (RCRA)	two major components of	implementing	been taken to improve
Hazardous Waste	the hazardous waste	recommendations from the	efficiency and resource
Import/Export Program	import/export process: 1)	Lean analysis. The Program	use. For example, all
Completed: EV 2017	notice and consent, and 2)	instances that did not	EPA Regions nave
Completed: FY 2017	government-to-government	achieve the desired result in	import-export
Office of Land and	communications.	terms of workload	coordinators to avoid
Emergency Management	The Office of Resource	efficiencies and/or work	unnecessary delays in
	Conservation and Recovery	product quality or timeliness.	processing hazardous
	(ORCR) and the Office of	Specifically, the Lean analysis	waste import notices;
	Enforcement and	identified poor input quality	OECA established notice
	Compliance Assurance	across all export-import	processing 'hours of
	(OECA) staff completed the	processes; multiple	operation' to increase
	Lean analysis in June 2017.	constraining steps leading to	efficiencies; ORCR
		long lead times; and concerns	created a group mailbox
		with II systems of foreign	so any group member
		recommendations are	auestions from industry
Office of Land and Emergency Management	communications. The Office of Resource Conservation and Recovery (ORCR) and the Office of Enforcement and Compliance Assurance (OECA) staff completed the Lean analysis in June 2017.	achieve the desired result in terms of workload efficiencies and/or work product quality or timeliness. Specifically, the Lean analysis identified poor input quality across all export-import processes; multiple constraining steps leading to long lead times; and concerns with IT systems of foreign countries. As the recommendations are	import-export coordinators to avoid unnecessary delays in processing hazardous waste import notices; OECA established notice processing 'hours of operation' to increase efficiencies; ORCR created a group mailbox so any group member can answer incoming questions from industry;

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		implemented, potential steps are being taken to solve the identified inefficiencies or process failures.	and, ORCR created a SharePoint site for better coordinated import-export related policy development and related communications.
Review of US EPA Office of Research and Development's (ORD) Research Programs Board of Scientific Counselors (BOSC) Completed: FY 2017 Office of Research and Development	Addressed charge questions posed by ORD's national research program areas and the four cross-cutting Roadmap programs	The BOSC report found these programs to be on track to meet the objectives in their current Strategic Research Action Plans (StRAPs) and Roadmaps.	ORD is working to implement a series of recommendations (located at <u>https://www.epa.gov/si</u> <u>tes/production/files/201</u> <u>7-</u> <u>05/documents/2017_bo</u> <u>sc_ec_report.pdf</u>) to continue to strengthen the research being done.
Pilot testing of Sustainable and Healthy Communities (SHC) science-based tools by members of Environmental Council of the States (ECOS)/the Environmental Research Institute of the States (ERIS) Pilot tests and webinars throughout FY 2017 Office of Research and Development	By holding regular demonstration and outreach webinars for members of ECOS, SHC is able to receive ongoing feedback, specific to its various research efforts. Registered users range from 8 attendees (for a specific agency) to 186 (for presentations to multiple states).	Findings and feedback differ based on the webinar, but the overall effect has been to cause SHC's scientists to make adjustments to aspects of its research or the usability of research products. Doing so should lead to greater uptake of research products by stakeholders within state programs.	Regular webinars on SHC's research and tools allows the program to: (1) perform outreach to state environmental protection offices, (2) get feedback on that research, and (3) demonstrate research products for stakeholders.
Internal EPA Partner Engagement Ongoing Office of Research and Development Homeland Security Research Program	Identifying high priority threats and the corresponding high priority capability gaps in the Agency's ability to respond to these threats. These processes are done with our EPA partners (OHS, OLEM, OW, OAR, OCSPP, and the Regions) to inform ORD's research program and Program Office/Regional preparedness activities.	Developing lists of high priority threats and lists of prioritized capability gaps broken out by threat type (chemical, biological, radiological).	These efforts inform the Agency's preparedness and research activities in its Homeland Security enterprise. OHS, OLEM, OW, OAR, OCSPP, and the Regions may have additional input in this area. For ORD, the findings from these prioritization exercises provide critical input into the Homeland

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	To prioritize gaps the following questions were asked: 1. Will filling this gap allow EPA to decrease the response and recovery timeline from a chemical, biological or radiological (CBR) incident? 2. What are the consequences if the gap is not filled? 3. Would filling this gap impact EPA's ability to respond to both CBR terrorism and other catastrophes (e.g., conventional war, accidents, natural disasters)?		Security Research Program's research agenda.
Great Lakes Restoration	The 2010 Appropriations	The GLRI has been a catalyst	EPA is using results to
Initiative (GLRI): FY 2016	Conference Report, 111-	for unparalleled federal	influence out-year
Report to Congress and the Brosident	316, requires EPA to report	agency coordination –	planning and funding
Fresherit	Great Lakes Interagency	Task Force (IATE) and the	• FPA used lists of
Completed: FY 2017	Task Force, on program	Regional Working Group	identified management
	accomplishments and	(RWG), which are led by the	actions necessary for
Office of Water	compare agency annual	EPA. This coordination has	Area of Concern
	funding levels. The report	produced unprecedented	delisting to direct
https://www.glri.us/pdfs/fy	also satisfies the Action Plan	results. GLRI resources have	funding to those AOCs
2016-glri-progress-report-	II Measure of Progress for	supplemented agency base	that can be completed
to-congress-and-president-	issuance of annual GLRI	budgets that have funded	near term.
20170803-35pp.pdf	reports to Congress and the	over 3,500 projects that	Upon reviewing
	President.	Improve water quality,	progress in addressing
		habitats and species prevent	FPA coordinated with
		and control invasive species	States to prioritize
		and address other additional	additional GLRI funding
		Great Lakes environmental	of agricultural
		problems. The report	phosphorus reduction
		provides an overview of	through accelerating the
		progress during FY 2016 for	pace of Best
		each Focus Area under GLRI	Management Practice
		Action Plan II. It also includes	implementation in
		select success stories,	targeted areas of
		funding and partaments	wisconsin and Unio.
		runding, and performance	

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		information for Action Plan II Measures of Progress.	• GLRI agencies utilized assessments of coastal wetland quality and current management to target additional resources and outreach to agencies best suited to accelerate protection, restoration, and enhancement. EPA is also using results to make adjustments to applicable targets under GPRA.
Great Lakes Ecosystem	Pursuant to the Great Lakes	The Great Lakes are assessed	EPA is using results to
Indicators	Water Quality Agreement,	as "Fair" and "Unchanging".	influence out-year
	Canada and the United	While progress to restore	planning and funding
Completed: FY 2017	States, together with their	and protect the Great Lakes	decisions and to make
	many partners, established	has been made, including the	adjustments to
Office of Water	a suite of 9 indicators of	reduction of toxic chemicals,	applicable targets under
	ecosystem health,	challenges remain with issues	GPRA.
https://binational.net/2017/	supported by 44 sub-	such as invasive species and	
06/19/sogl-edgl-2017/	indicators, to assess the	nutrients. The State of the	
	state of the Great Lakes.	Great Lakes Technical Report	
https://binational.net/wp-	State of the Great Lakes	is expected in summer 2017.	
content/uploads/201//09/S	assessments support the		
OGL_2017_Technical_Repor	identification of current and		
t-EN.pdf	emerging challenges to		
	Great Lakes water quality		
	report also halps		
	Covernments evaluate the		
	offectiveness of existing		
	programs and policies to		
	address challenges and		
	inform and engage others		
	Over 180 government and		
	non-government Great		
	Lakes scientists and other		
	experts worked to assemble		
	available data to populate		
	the suite of indicators and		
	sub-indicators and prepare		
	assessment reports.		

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2016 Progress Run Using	The annual progress run	Pollution-reducing practices	Under the
Phase 5.3.2 of the	incorporated reported	are in place to achieve 31%	accountability
Watershed Model	wastewater data and best	of nitrogen reductions. 81%	framework. EPA
	management practice	of phosphorus reductions	committed to conduct
Completed: FY 2017	implementation data into a	and 57% of sediment	oversight of Bay
	calibrated model, to	reductions necessary to	jurisdictions' programs
Office of Water	estimate the percentage of	attain applicable water	to ensure they are on
	the reduction goal (Bay	quality standards as	track to meet the goals
http://www.chesapeakepro	TMDL) met for each	compared to 2009, the year	of their WIPs and two-
gress.com/clean-	jurisdiction for nitrogen,	before the EPA established	year milestones. See
water/water-	phosphorus and sediment.	the Bay TMDL.	https://www.epa.gov/c
quality/watershed-		The annual budget measure	hesapeake-bay-
implementation-plans		target for FY16 for nitrogen,	tmdl/epa-interim-
		phosphorus, and sediment	evaluation-2016-2017-
		are all 45%. Therefore, the	milestone-progress-
		nitrogen reductions missed	chesapeake-bay-
		the target for FY17, but the	watershed for EPA
		phosphorus and sediment	Interim Evaluation of
		reductions have exceeded	2016-2017 Milestone
		their respective targets for	Progress.
		this year.	
		future is contingent on	
		adoquato funding and	
		avequate funding and	
Water Quality Standards	Used available monitoring	Results of the 2013 to 2015	EPA along with other
Attainment indicator:	information from the 92	assessment period indicate	federal state and
annual update	segments of the Chesapeake	that 37% of the Chesapeake	academic partners, are
	Bay to estimate whether	Bay and its tidal tributaries	using this information to
Completed: FY 2016	each segment is attaining	met water quality standards	explain progress toward
	certain criteria for one or	during this time. These	meeting water quality
Office of Water	more of its designated uses	results mark a 9% increase	standards and the Bay
	on an annual basis.	from those of the previous	TMDL. This includes
http://www.chesapeakepro		assessment period, during	assessing changes in
gress.com/clean-		which 34% of the Bay and its	nutrients and sediment
water/water-quality/water-		tidal tributaries met water	in the Bay watershed
<u>quality</u>		quality standards.	and analyzing water
			quality trends in the
		EPA expected new data as	estuary and tidal
		early as September 2017, but	tributaries. Further
		the information was	incorporation and use of
		unavailable at the time this	monitoring information
		report.	to assess progress is
			critical to better
			understand how on the
			ground actions have an

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			impact toward meeting
			the 2017 and 2025 WIP
			outcomes, particularly
			since monitoring
			assessments will
			ultimately determine
			when the jurisdictions'
			water quality standards
			are achieved.
Scientific and Technical	STAC provides independent	STAC reviews past and	STAC <u>workshops</u> provide
Advisory Committee (STAC)	scientific and technical	present are available online.	a format for formulating
	advice in various ways,		recommendations to
Ongoing	including (1) technical		the Chesapeake Bay
	reports and position papers,		Program from the
Office of Water	(2) discussion groups, (3)		scientific and technical
	assistance in organizing		community on
	merit reviews of CBP		information needs,
	programs and projects, (4)		opportunities for
	technical workshops, and (5)		collaborations, and
	Interaction between STAC		further management
	members and the CBP. STAC		actions. Speakers from
	the region's scientific		the Chesapeake Bay
	community and the CPP		from around the
	Through professional and		watershed are often
	acadomic contacts and		invited to STAC
	organizational networks of		meetings to discuss how
	its members STAC ensures		science is being used to
	close cooperation among		inform management
	and between the various		decisions throughout
	research institutions and		the watershed. STAC
	management agencies		reviews provide
	represented in the Bay		thorough, competent,
	watershed.		and objective technical
			guidance in a timely
			fashion to advise the
			Chesapeake Bay
			Program decision-
			making process.