	National Academy of Sciences National Research Council Panel's science based conclusion (SBC)	CBP lead team or workgroup is responsible for implementing current or additional action(s)	Draft response by CBP partnership action(s) already being taken to address the science based conclusion TRACKING AND ACCOUNTING	Draft response by CBP partnership on specific additional action(s) the partnership will commit to take pursue this further and why	Summary of WQGIT Feedback by SBC
1		Implementation Team with Watershed Technical Workgroup and source	The CBP partnership is near the end of a four year effort to develop and adopt the National Environmental Information Exchange Network on NEIEN approach to exchange reported BMP data seamlessly across the seven watershed jurisdictions, an unprecedented accomplishment unmatched across the country. The CBP partnership adopted a protocol for the review and approval of new practices' definitions, efficiencies, means for tracking and reporting and simulation within the respective Bay model. The protocol also addresses existing partnership approved practices where new scientific findings support reconsideration of the practice's efficiencies.		Partnership respondents had the following concerns: - The whole accountability system is overwhelming when viewed at the scale of the entire Chesapeake Bay basin How does one apply consequences when there will always be holes in our tracking and reporting system Capacity to reporting beyond to the public on a broad scale like we have done for decades as a partnership Need to revisit the privacy issue with USDA in order to really address more complete tracking and report without getting into duplicate reporting.
2	The current accounting of BMPs is not consistent across the Bay Jurisdictions. Additionally, given that some source-sector BMPs are not tracked in all jurisdictions, the current accounting cannot on the whole be viewed as accurate.	Water Quality Goal Implementation Team with Watershed Technical Workgroup and source workgroups	Through a series of parallel activities, which will converge together over the coming year to form a more comprehensive BMP tracking, verification, and reporting system, the CBP partners are tackling the following issues through a variety of approaches: Agricultural data privacy constraints: U.S. Geological Survey (USGS) has signed memoranda of understanding (MOUs) with the U.S. Department of Agriculture's (USDA) National Resources Conservation Service (NRGS) and the Farm Services Agnety (FSA) to establish a federal cost-shared conservation practice data reporting system which respects producer privacy and still ensures partner access to geographic-based reporting of BMP at the scales appropriate to a variety of management and assessment objectives. Verification and Non-Cost Shared Practices: The National Association of Conservation Districts (NACD) has been funded by USDA NRCS to coordinate development of data collection and verification protocols for non-cost shared agricultural conservation practices implemented in the		Maryland representatives states that despite the fact that the current comment references NRCS tracking system, MD has a Conservation Tracker in place that is the official system used. The system tracks not only federal practices but also state and private making it more complete for the state of MD than the federal approach. In regards to the agricultural data privacy constraints, USGS suggests that "to establish a federal cost-shared conservation practice data reporting system" be replaced with "to help the CBP partners improve reporting of agricultural practices. The USGS is working with USDA and the states to establish guidance on improving cost-shared conservation practice data"
3	reported by the Bay	Water Quality Goal Implementation Team with Watershed Technical Workgroup and source workgroups		While the input data for the CBP Watershed Model allows for a reasonable estimate of agricultural loadings to the Chesapeake Bay and the effect of conservation practices, the CBP partnership will continue to refine the model with	
4	The committee was not able to quantify the magnitude or the likely direction of the error introduced by BMP reorting issues.	Water Quality Goal Implementation Team with Watershed Technical Workgroup and source workgroups	o ensuring that historic data reported for use in the model do not include duplicate records, expired practices, or practices on land that has since been converted to another use.	the latest available verified data. • Convene a panel of recognized regional and national experts to help guide decisions on crediting substandard practices.	Pennsylvania commented that they are unsure how they could verify that that historic data reported for use in the model do not include duplicate records, expired practices, or practices on land that has since been converted to another use. They support verification for new practices, but are concerned about this commitment.
5	A consolidated regional BMP program to account for voluntary practices and increase geo-referencing of BMPs present opportunities to improve the tracking and	Water Quality Goal Implementation Team with source workgroups	See actions described above in numbers 1-6.		A respondent suggested that we need take on the action to, at a minimum, look further at Florida's approach mentioned in the NAS report.
6	Targeted monitoring programs in representative urban and agricultural watersheds and subwatersheds would provide valuable data to refine BMP efficiency estimates particularly at the watershed scale, and thereby improve Watershed Model predictions.	Science, Technical Analysis and Reporting Team with Nontidal Water Quality Monitoring Workgroup	With leadership by USGS and NRCS, the CBP partnership has already invested shared monitoring resources in establishing monitoring program within small watersheds targeted for intensive conservation practice implementation. These small watershed monitoring programs are being designed and implemented following guidelines developed through workshops sponsored by the CBP partnership's Scientific and Technical Advisory Committee (STAC).		USGS suggested that the response be edited to this: The CBP partners are expanding the Chesapeake notidal water-quality network to have additional monitoring in urban and agricultural watersheds. Additionally, several small watershed studies, to better document the relation between management practices and water-quality changes, have been established in agricultural and urban areas. These small watershed monitoring programs are being designed and implemented following guidelines developed through workshops sponsored by the CBP partnership's Scientific and Technical Advisory, Committee (STAC). The results from all of these monitoring efforts will be used to better understand the effectiveness of BMPs and improve the Watershed models. The alsoy suggested "The CBP STAR team is also starting a new effort to summarize results from small watershed studies to better document water-quality improvements from implementation of management actions" be added to actions that the partners will commit to take.

7 Additional guidance from the EPA on the optimal extent of field verification of practices in relation to expected benefits would improve tracking and accounting of both cost-shared and non-cost shared practices.	Water Quality Goal Implementation Team with Watershed Technical Workgroup and source workgroups	The National Association of Conservation Districts (NACD) has been funded by USDA NRCS to coordinate development of data collection and verification protocols for non-cost shared agricultural conservation practices implemented in the Chesapeake Bay watershed. EPA and USDA are working directly with NACD, the state agricultural agencies, conservation districts, and the agricultural and agribusiness communities to develop and implement mechanisms for tracking and reporting verified non-cost share practices by July 2012, as committed to in the Executive Order 13508 Strategy. Lessons learned from this effort will be useful in improving tracking, verification, and reporting of both cost shared and non-cost shared practices in other source sectors.	the NACD, the CBP partnership (not just EPA) will agree on how to best carry out verification of		A respondent expressed concerned that there is no definition for verification at this time and that it could become very burdensome requirement
Electronic tracking and data transfer systems are likely to improve the quality of reporting and reduce the jurisdictions' tracking and accounting burden but may currently be contributing to delayed assessment of implementation progress.	Water Quality Goal Implementation Team with Watershed Technical Workgroup and source workgroups	The CBP partnership is near the end of a four year effort to develop and adopt the National Environmental Information Exchange Network or NEIEN approach to exchange reported BMP data seamlessly across the seven watershed jurisdictions, an unprecedented accomplishment unmatched across the country.	The partnership will complete the transition NEIEN-based BMP network exchange and work to ensure the exchange network results in more rapid access and, therefore, more timely assessment of tracked, verified and reported BMPs.		
		TWO YEAR MILESTONES			
9 The two-year milestone strategy commits the states to tangible, near-term implementation goals and improves accountability and, therefore, represents an improvement upon past CBP long-term strategies. However, the strategy, in and of itself, does not guarantee that implementation goals will be met, and consequences for nonattainment remain unclear.	Water Quality Goal Implementation Team's Milestones Workgroup	Chesapeake Bay accountability framework, officially put in place with publication of the Chesapeake Bay TMDL on December 29, 2010, is composed of Watershed Implementation Plans (WIPs), two-year milestones, tracking and assessment of progress meeting Bay TMDL allocations, and federal actions, all of which provide greater assurance for achievement and maintenance of the Bay TMDL allocations. EPA has shared the Evoluation of Bay Jurisdictions' 2009-2011 Milestones memorandum and the Guide for Chesapeake Bay Water Quality Two-year Milestones with the jurisdictional partners.	The partnership will continue forward with the two-year milestone process as described within the Evaluation of Bay Jurisdictions' 2009-2011 Milestones memorandum and the Guide for Chesapeake Bay Water Quality Two-year Milestones .		A Maryland explained that the MD WIP has backup and contingencies for not meeting milestones and addresses these issues. A suggestion was made that the Cost analysis discussed at and committed to at the June Chesapeake Executive Council meeting as an important action to put into the fourth column. USGS suggested adding the following to the response: "All of these efforts resulted in the CBP partnership adopting a decision framework in May 2011, which provides an adaptive-management process. The new decision framework emphasizes goal setting, monitoring, and assessing performance to manage adaptively. The monitoring improvements and small watershed studies listed in item 6 provide an important component for applying adaptive management." VA DEQ commented that the resources to implement actions are not assured and that the cost benefit analysis being conducted by CBPO should be considered future assessment of contingencies.
10 CBP jurisdictions reported mixed progress toward their first two-year milestone goals. However, data were insufficient to meaningfully evaluate implementation or anticipated load reduction progress relative to the goals.	Water Quality Goal Implementation Team's Milestones Workgroup	The CBP partnership is near the end of a four year effort to develop and adopt the National Environmental Information Exchange Network or NEIEN approach to exchange reported BMP data seamlessly across the seven watershed jurisdictions. EPA has shared the Evaluation of Bay Jurisdictions' 2009-2011 Milestones memorandum with the jurisdictional partners so that everyone is clear on the planned evaluation.	The seven Bay watershed jurisdictions will report to the public on interim progress under their 2009-2011 milestones at the upcoming Chesapeake Executive Council. The partnership will complete the transition NEIEN-based BMP network exchange and work to ensure the exchange network results in more rapid access and, therefore, more timely assessment of tracked, verified and reported BMPs. The partnership will continue forward with the two-year milestone process as described within the Evaluation of Bay Jurisdictions' 2009-2011 Milestones memorandum and the Guide for Chesapeake Bay Water Quality Two-year Milestones.		It was suggested that we add a statement that recognizes the first set of 2-year milestones were gross estimates given changes in the suite of models employed by the partnership in the 3rd column. USGS proposed replacing the reponse and the future actions with the following: The new CBP decision framework will allow the partners to better identify uncertainty associated with water-quality decision making. Some specific examples to address uncertainty are improved techniques developed by USGS to show the uncertainty associated with trends analysis of nutrients and sediment monitoring data in the watershed. The CBP STAR team is also starting a new effort to summarize results from small watershed studies to better document water-quality improvements from implementation of management actions. This will to better understand (and reduce the uncertainty) about the lag time between implementing practices and detecting a water-quality response,
11 The first two-year milestone goals will likely be the easiest to achieve.	Water Quality Goal Implementation Team's Milestones Workgroup			The CBP partnership does not agree with this finding—the "low hanging fruit" described within the report has long been picked from the tree over the course of the 28 year partnership.	A respondent expressed concern that as we proceed it will get harder and harder to achieve our desired levels of implementation.
	I	ADAPTIVE MANAGEMENT	1		

an International Control	Water Outline Co.		A second of the
12 Neither the EPA nor the Bay	Water Quality Goal		A respondent agreed with the NAS report that the EPA doesn't show a clear understanding of adaptive
jurisdictions exhibit a clear	Implementation Team's	The CBP partnership adopted a new management structure in 2009 as	management. Further efforts and discussions are needed to align Chesapeake Bay management to the adaptive
understanding of adaptive	Milestones Workgroup,	part of a larger effort to building adaptive management into the	management principles described in the NAS report. This issue is big enough such that a new task group may be
management and how it might	Enhance Partnership,	partnership's shared decision making process. The CBP partnership	needed to address it. ChesapeakeSTAT is a useful tool but it does not address the stated concerns about AM.
be applied in pursuit of water	Leadership Goal	released ChesapekeStat in 2010 to provide for a systematic process of	
quality goals.	Implementation Team	analyzing information to continually assess progress towards goals and	A Maryland reporesentative shared that BaySTAT is in place in MD, allowing for a monthly review of milestones
		adapt strategies when needed and a public website that promotes	with the Governor. Through the BaySTAT tool, adaptive Management is occurring at that level.
		improved accountability through transparency by sharing information on	
		activities, funding and goals. The Federal Leadership Committee for the	It was suggested that an action the partnership will commit to we explore further and better understand how we
		Chespeake Bay published the Strategy for Protecting and Restoring the	could apply the recommend design approach in the context of a Clean Water Act regulatory program context.
		Chesapeake Bay Watershed in May 2010, under Executive Order 13508,	
		making specific commitments to undertake adaptive management	Another respondent expressed that they were disappointed in how the NAS panel members approached adaptive
		within the partnership.	management. They found that the principle of adaptive management is a high priority regardless of how NAS
			approached adaptive management.
13 Successful application of	Enhance Partnership,		Respondents noted the following:
adaptive management in the	Leadership Goal		- This item is important to the WQGIT and the WQGIT is in a position to request analysis of uncertainties, especially
CBP requires careful	Implementation Team		with regard to modeling components and outputs. Requesting such analyses of uncertainty is a first step in
assessment of uncertainties	implementation ream		considering it and should be added as an action.
relevant to decision making,			
			- We need to acknowledge there are certainties everywhere including those already being undertaken and commit
but the EPA and Bay			to reduce uncertainty where we can.
jurisdictions have not fully			- The establishment of a modeling laboratory can help with uncertainties.
analyzed uncertainties inherent			 The BMP efficiencies review/improvement process can help us reduce uncertainty but local implementation
in nutrient and sediment			characteristics will always contribute to uncertainty.
reduction efforts and water			 As we drive implementation down to the local level, we add a whole new level of uncertainty to our tracking,
	Enhance Partnership,		
the states and the CBP will be	Leadership Goal		
required to support adaptive	Implementation Team	In November 2009, the partnership's Management Board adopted the	
management.		findings and recommendations coming out of the STAC led reevaluation	
		of the partnership's water quality-focused monitoring networks. The	
		work of the Monitoring Realignment Action Team built on a series of	
		STAC sponsored monitoring and analysis workshops and reviews which	
		provided the partnership with a solid scientific basis for targeting	
15 Additional federal actions are	Enhance Partnership,		It was suggested that we add an action to securing the services of someone who is expert in adaptive management
needed to fully support	Leadership Goal	Over the past three years, EPA has been communicating frequently and	and understands the NAS recommended approach.
adaptive management in the	Implementation Team	extensively about the accountability framework now in place, working to	
CBP.		clarify expectations, spell out evaluation processes, and support	USGS proposed that the end of the reponses "under Executive Order 13508, making specific commitments to
		adaptation to new information. The Federal Leadership Committee for	undertake adaptive management within the partnership" be replaced with "under Executive Order 13508, which
		the Chespeake Bay published the Strategy for Protecting and Restoring	provided a proposed approach and made specific commitments to undertake adaptive management within the
		the Chesapeake Bay Watershed in May 2010, under Executive Order	partnership."
		13508, making specific commitments to undertake adaptive	
		management within the partnership.	
16 Without sufficient flexibility of	Enhance Partnership,		In regards to the actions already being taken, it was noted that we need to recognized the difficulties with having
		The Chasenesis Day TMDI and the adented associatebility from avoid	
the regulatory and	Leadership Goal	The Chesapeake Bay TMDL and the adopted accountability framework,	developed milestone for the next two years without fully knowing what happened over the course of the past 2-
organizational structure within	Implementation Team	published on December 29, 2010, built in the following adaptability:	year milestone period. The respondent was concerned with this information lag.
which CBP nutrient and		o Three separate opportunities to develop and refine the Bay TMDL	It was also noted that having sufficient flexibility to undertake adaptive management may be problematic given the
sediment reduction efforts are		allocations and the jurisdictions' watershed implementation	NAS's approach to adaptive management, but the regulatory programs do have flexibility.
undertaken, adaptive		plans—2010, 2012, and 2017—through a phased process on the way to	
management may be		2025;	
problematic.		o Two-year milestones providing multiple opportunities for adaptation;	
		o Jurisdictions and local partners' development of local load targets at	
		the appropriate scales within each jurisdiction as part of the Phase II	
		Watershed Implementation Plans;	
		o Continued publication of addenda to the original 2003 Bay water	
		quality criteria and tidal waters designated uses documents (10	
		published by EPA to date on behalf of the partnership); and	
		o Delaware, District of Columbia, Maryland, and Virginia's continued	
		STRATEGIES FOR MEETING THE GOALS	
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la				
will require careful attention to the consequences of future population levels, development patterns, agricultural production systems, and changing climate dynamics in the Bay Watershed. 18 Helping the public understand lag times and uncertainties associated with water quality	Water Quality Goal Implementation Team Water Quality Goal Implementation Team/Communications Workgroup	Monitoring Realignment Action Team for expansion of the non-tidal water quality monitoring network across the six states and the District. A The CBP's Scientific and Technical Analysis and Reporting (STAR) Team	mplement the recommendations ind next steps coming out of the pril 2011 "An integrated Approach or Communicating and Monitoring Progress toward the Chesapeake MDL" meeting.	One respondent feels that NAS missed the issue about significant weather events (e.g., hurricanes) and how they impact meeting our goal; this should be added as an action that needs to be undertaken. The draft CBP response does not address "Helping the public understand"—it only focuses on communicating within the partnership. Virginia having a workshop to address modeling issues. For the response, USGS suggested adding the following sentence at the end of the second paragraph "As part of the small watershed studies (item 6), investigators will be conducted to better quantify the lag time of nutrients and sediment." They also suggested modifying the end of the third paragraph to say that "Meeting recommendations and next steps will be used to improve the use of monitoring information to communicate and assess progress toward water-quality goals."
manure management.	Water Quality Goal Implementation Team's Agricultural Workgroup	In Phase I WIPs, states identified many strategies to improve manure management, including application, transport, alternative uses and feed management. Notably, Pennsylvania committed to innovation in the field of advanced manure to energy technologies. PA committed state funds for this effort and called for USDA and other state agencies to do the same. As part of the Phase II process, EPA committed to work with Pennsylvania to agree upon credit that State should receive for these technologies. In its Phase I WIP, Virginia placed all AFO loads in the WLA to signal that more facilities could be subject to NPDES permits. Virginia also included a plan for addressing water quality concerns associated with unpermitted AFOs (specifically dairies). In its December 29, 2009 letter to the PSC, EPA outlined 8 federal actions that it would take to ensure that nutrient and sediment reduction efforts continue on schedule to meet the Partnership's goal of all practices in place by 2025. One such action is expanding the universe of sources, including animal feeding operations, subject to NPDES permits When establishing the TMDL, EPA applied a "backstop allocation adjustr		A Maryland representative noted that they are in the process of updating the P site index which will allow for better accounting of manure management and looking at alternatives to address surpluses where they arise. Another respondent found that there were obvious next steps that should be added as future actions based on the actions already being taken.

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20	Ag: Incentive-based approaches	Water Quality Goal			One respondent found that there were a number of specific ideas/recommendations in the narrative that we
	and alternative regulatory models.	Implementation Team's Agricultural Workgroup	In their Phase I WIPs, several states proposed strategies to increase agricultural BMPs without command-and-control regulations. E.g., Virginia's Resource Management Plans. Many Phase I WIPs (Virginia, Delaware, and Maryland) identified contingencies including mandatory requirements if sufficient increases in voluntary BMPs were not achieved by 2013. EPA will be analyzing the costs and benefits associated with meeting		explore and commit to do that should be added as future actions.
			water quality standards in the Chesapeake Bay in 2011 and 2012.		
	address stormwater, growth and development, and residential fertilizer use.	Water Quality Goal Implementation Team's Stormwater Workgroup	EPA agrees that restrictions on residential fertilizer application are a cost-effective mechanism to reduce nutrient loads. EPA encourages these restrictions, and is pleased that multiple states included them in their Phase I WIPs. Eg.: New York passed fertilizer legislation in July 2010. Virginia passed fertilizer legislation in 2011. EPA credited nutrient reductions to states that included fertilizer restrictions in their Phase I WIPs. The Bay TMDL is established using a 2010 land use, and states are expected to offset any new or increased discharges for which an allocation was not established.	Through the Phase II WIPs, EPA expects that communities will work with states to develop and implement strategies to reduce nitrogen, phosphorus and sediment reductions to the Bay. Such strategies could include land-use regulations or ordinances that limit new or increased loads delivered to the Bay.	A Maryland representative notes that they have passed the Urban Fertilizer Bill. A respondent found that we have not and should respond to the "watershed-based permitting" recommendation in the NAS report narrative. A member of the agricultural workgroup questioned the veracity of the claims that turf is a high runoff, high nutrient yielding area and state that they would be more concerned about sewage plant overflows during high runoff events where the sewer systems get storm water flows into them.
22	Urban: Enhanced individual responsibilities.	Water Quality Goal Implementation Team's Stormwater Workgroup	Many states assumed that individual actions would be one way to reduce loads from urban runoff and onsite septic systems, and identified education and outreach as an important mechanism to facilitate such voluntary actions. EPA will give states credit for voluntary actions if the state can appropriately report and verify these practices to EPA.		A member of the agricultural workgroup suggested as a potential action that all septic systems should be checked for functionality and placed on a regular cleaning schedule mandated by town or county ordinances.
23	Additional air pollution controls.	Water Quality Goal Implementation Team		National programs are the most effective mechanism to reduce NOx emissions and deposition to the Chesapeake Bay and its watershed given that 50% of the NOX deposition in the watershed comes from sources outside the watershed. FPA is in the process of finalizing a more stringent national ozone standard that will decrease NOx emissions and deposition to Chesapeake Bay and its watershed. If this standard is finalized before the Phase II WIPs are due to EPA and if it is at least as protective as 0.070 ppm (range under consideration is 0.060 – 0.070 ppm), EPA will credit the states for the decreased nitrogen deposition in the watershed. There are no national air quality standards for ammonia emissions controls and	

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24 Innovative funding models will Water Quality Goal	EPA modified its FY 2011 Chesapeake Bay Implementation Grant and		Respondents made the following suggestions that we:
be needed to address the Implementation Team	Chesapeake Bay Regulatory and Accountability Program Grant guidance		- Need to address this conclusion more fully and directly.
expected costs of meeting Bay	to increase the targeting of EPA funds for use on practices and in	EPA may consider further	- Note as an action that has been taken that a formal Trading and Offset workgroup was established to focus, and
, , , , , , , , , , , , , , , , , , ,			support the implementation of practices, policies, and programs within the realm of nutrient and sediment trading
water quality goals.	and sediment loads to the Chesapeake Bay.		and offsets that will assist efforts to restore water quality in the Chesapeake Bay and its tidal tributaries.
	and sediment loads to the Chesapeake Bay.	guidance.	
			- Mention the Chesapeake Executive Council commitment to the cost analysis for the Phase II WIPs.
	Through its COAST tool, EPA provided information to states and USDA	College to the first PV 2014	- Broaden the respond in terms of evaluating the results of the cost analysis and the challenges which the updated
	for targeting agricultural practices in sub-watersheds where they would	Subject to its final FY 2011	cost analysis presents and acknowledging the need to evaluate innovative funding models.
		Operating Budget and future	
		budgets, EPA will be providing	
		additional resources to improve the	
	ChesapeakeStat in order to help partners target nutrient and sediment	Watershed's non-tidal water	
	reduction efforts.	quality monitoring network.	
	FDA		
	 EPA agrees with states and stakeholders that properly designed trading and offset programs have the opportunity to reduce implementation 		
	costs.		
	o Many states, most notably Virginia, included plans to develop and		
	enhance their trading programs in their Phase I WIPs as a mechanism to		
	cost-effectively meet nutrient and sediment allocations in the TMDL.		
25 Establishing a Chesapeake Bay Science, Technical Analysis			It was noted that there is more credibility in the Bay water quality model versus the Bay watershed model.
modeling laboratory would and Reporting Team's	 The Chesapeake Bay Program has long-embraced open source, 		
ensure that the CBP would have Modeling Workgroup	community-based models. CBP models and modeling information are		Another respondent felt that this response does not directly address the issue.
access to a suite of models that	posted by the Chesapeake Community Modeling Program, which is		
are state-of-the-art and could	developed and maintained by a consortium of universities and federal		VA DEQ commented that the a study should be done to consider the pros and cons of having a modeling laboratory
be used to build credibility with	agencies.		and the best way to improve model credibility done by a third party, such as STAC, by the next Executive Council
the scientific, engineering and	 This spring, EPA and USDA will finalize a work plan outlining activities 		Meeting.
management communities.	to further collaborate on respective modeling efforts, with particular		
	emphasis on the Chesapeake Bay Program Partnership's Watershed		
	Model (CBP Watershed Model) and the USDA Conservation Effects		
	Assessment Project (CEAP model). NRCS Chief White announced the		
	development of this work plan at the March 16th hearing in front of the		
	U.S. House of Representatives Committee on Agriculture's		
	Subcommittee on Conservation, Energy and Forestry.		
	 EPA will be hosting a series of workshops for interested citizens and 		
	technical uses on the Chesapeake Bay Program Scenario Builder over the		
	summer of 2011. This tool allows partners to assemble data "input		
	decks" of various management actions and analyze nutrient and		

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