EPA's Reviews of Delaware's November 14, 2015 Revised Draft BMP Verification Program Plan

Transmitted January 26, 2016

For your reference and consideration as Delaware works to further enhance its BMP verification program over the coming two years, please find a compilation of EPA's reviews of Delaware's November 14, 2015 Revised Draft BMP Verification Program Plan in the form of a series of evaluation forms.

	Overarching Comments	_
Forma	tting and General Content:	_
1.	The Panel felt that the approach of building a program plan around citations of verificati procedures provided in often-lengthy attached appendices was not effective or transparer. Panel highly recommends pulling out the relevant information (text, tables etc.) from sucreferenced appendices and placing them directly in the jurisdiction's program plan, and to provide a link to the full document within the program plan's text.	nt. The ch
	Was this comment sufficiently addressed? Addressed: Partially Addressed: X Not Addressed: Comments: Delaware's revised program plan still contains references/links to lengthy attached appendices, but does a better job retaining only the relevant information in the main document.	

Use of Statistical Sampling Approaches and Practice Prioritization:

2. Anytime the jurisdictions select a subsampling percentage—e.g., 5 percent—they should document the process and rationale for how they selected that specific percentage. Simply citing a methodology used by NRCS or other data submitting partners is not sufficient in the Panel's opinion. Emphasis should be placed on documenting the criteria for subsample selection on how that percent subsampling meets the jurisdiction's own WIP and verification objectives to ensure they have achieved the Partnership's BMP Verification Principles.

	Was this comment sufficiently addressed? Addressed:
	Comments: Delaware provides more rationale for the selection of their sampling percentages—e.g., tillage practices—whereas for other practices, Delaware still just references other agency's percentages—e.g., USFWS and stream restoration verification—without providing documentation that that Agency's percentage is consistent with Delaware's programmatic objectives.
3.	When using a statistical sampling based verification protocol (e.g., CTIC), the jurisdiction should clearly document how they plan to translate the findings from the statistical survey into the actual numbers and geographical distribution of practices submitted through NEIEN for crediting through the Partnership's annual progress runs.
	Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: X
	Comments: Delaware provided sound documentation on the CTIC protocol and their design choices, but did not provide documentation on how they plan to translate the findings from the statistical survey into the actual numbers and geographical distribution of practices submitted through NEIEN for crediting through the Partnership's annual progress runs.
4.	Jurisdictions should consider basing the rigor of their verification protocols by a practice's contributions to planned pollutant reductions under the jurisdiction's Watershed Implementation Plans (WIPs). Risk of practice failure may also be a workable means to prioritize verification if clear justification for assignment of risk to individual BMPs is provided.
	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
	Comments: Delaware was very clear in documenting its choices of verification protocols and the rigor in their protocols in relationship to the BMPs and their contribution to overall nutrient and sediment reductions called for in their Phase II WIPs.

5. Jurisdictions should provide the overall percentage of the total WIP load reductions contributed by BMPs that the jurisdiction has included in its BMP verification protocols. Pennsylvania's draft program plan provides good examples of this approach (see page 5 for one example).

	Was this comment sufficiently addressed?
	Addressed: X Partially Addressed: Not Addressed:
	Comments: Delaware provided strong documentation address the overall percentage of the total WIP load reductions contributed by BMPs included in their BMP verification program plan.
	hile the Panel recommends the prioritization of BMPs, they note that verification protocols ust be developed for <i>all</i> BMPs that a jurisdiction plans to report. Therefore, the Panel is asking
	r the jurisdictions to fill in the blanks for any low and medium priority BMPs for which
	rification protocols have not yet been submitted. The Panel asks for a specific timeframe for
•	oviding verification protocols for these low and medium priority BMPs, as well as a description the envisioned level(s) of verification, recognizing the Basinwide Framework allows for less
	gorous levels of verification for these low priority practices.
	Was this comment sufficiently addressed? Addressed: Partially Addressed: X Not Addressed:
	Comments: Delaware clearly documented its lower priority BMPs for which verification protocols have not yet been submitted, but did not for specific timeframes for providing verification protocols for these low and medium priority BMPs, as well as a description of the envisioned level(s) of verification, recognizing the Basinwide Framework allows for less rigorous levels of verification for these low priority practices.
tr	ne Panel requests that all six states describe their proposed verification of septic systems/on-site eatment systems EVEN if those treatment technologies may be low priority and/or if the risdiction does not have plans to submit these technologies in the near future for pollutant
-	duction credit.
	West his comment sufficiently addressed?
	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
	Comments: Delaware provided verification protocols for verification of septic systems/on-site treatment systems.

6.

7.

Practice Inspections:

Was this comment sufficiently addressed?
Addressed: X Partially Addressed: Not Addressed:
Comments: Within each set of BMP verification protocols for a group of designated BMPs, Delaware described the training requirements for those individual involved in BMP verification, documenting whether or not a specific "certification requirement" was needed or not.
the Panel feels that independent, third party review is necessary in most cases to meet the confidence Principle.
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
Comments: Delaware has factored into it BMP verification protocol the use of the independent reviewers, consistent with the Panel's definition, where needed. An example is the use of an independent QA team in addition to the observation team in carrying out its tillage practice survey. [Note that even the Panel's own guidance recommends against use of the term 'third party.']
a BMP has been inspected and found to meet standards, then the jurisdiction needs to cocument their plans to 'restart the clock' on that practice and apply a new life span.
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
Comments: Within each set of BMP verification protocols for a group of designated BMPs, Delaware described how it plans to deal with practices that have been reinspected and found to meet standards.

	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
	Comments: Within each set of BMP verification protocols for a group of designated BMPs, Delaware described how it plans to deal with practices that have been reinspected and found to not to meet standards.
coı tim	ross the jurisdictions, the way that verification of erosion and sediment control for active instruction and stormwater management for post-construction was conflated and/or confunes. A clear distinction between the verification approaches for these very different category BMPs should be provided.
	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
	Comments: Delaware documented verification protocols for wet ponds, wetlands, infiltration practices, filtering practices, bioretention and bioswales separate from verification protocols for erosion and sediment control.
cing	Existing Programs:
	a jurisdiction has not finished issuing all its MS4 permits, the Panel questions relying on rmits for carrying out verification. Jurisdictions must develop a program plan that is constituted to the urban sector guidance, and cannot simply default to MS4 methodologies.
pei	
per wit	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:

Tas this comment suff Addressed: X	iciently addressed? Partially Addressed:		Not Addressed:	
omments:				
owners were essential s—this is an issue tha	lly absent from the jurisdic t needs to be addressed by	ctions' ir	nitial draft BMP ver	rification prog
owners were essential s—this is an issue tha cy and facility partne	lly absent from the jurisdict needs to be addressed by rs.	ctions' ir	nitial draft BMP ver	rification prog
owners were essential s—this is an issue tha	lly absent from the jurisdict needs to be addressed by rs.	ctions' ir	nitial draft BMP ver	rification prog
owners were essential s—this is an issue that cy and facility partner as this comment suff Addressed: Omments: Delaware's y NRCS and FSA. The	Ily absent from the jurisdict needs to be addressed by rs. Ticiently addressed? Partially Addressed: s plan address BMPs instance are no federal facilities.	ctions' in y both the	nitial draft BMP ver e jurisdictions AND Not Addressed:	rification prog
owners were essentians—this is an issue the cy and facility partners. Vas this comment suffaction Addressed: X	al a e f	ally absent from the jurisdicat needs to be addressed by ers. Triciently addressed? Partially Addressed: 's plan address BMPs instate there are no federal facilities.	ally absent from the jurisdictions' in at needs to be addressed by both the ers. Cficiently addressed? Partially Addressed:	Ficiently addressed? Partially Addressed: Not Addressed: 's plan address BMPs installed by/under contract/cost shere are no federal facilities and federal lands within

Delaware **Overarching** 1. Need to provide URL links to all other documents, reports, and publications referenced within the draft plan so that readers/users can easily access those references (e.g., page 11, first paragraph). Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: Delaware provides URL links to other documents throughout its revised program plan. 2. Need to provide a specific schedule for developing and publishing verification protocols for the remaining BMPs with lower anticipated contributions to the overall load reductions (cited on page 55). Was this comment sufficiently addressed? X Addressed: Partially Addressed: Not Addressed: Comments: Delaware did not provide to provide a specific schedule for developing and publishing verification protocols for the remaining BMPs with lower anticipated contributions to the overall load reductions which it recognized it had not yet developed verification protocols for. 3. Recommend development of an overall summary and work to make the report more concise by reducing redundant text included in each subsection without losing any understanding of what is being proposed Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: Comments: Delaware did not change the overall format, structure and length from its initial draft submission. Recognizing this format results in providing redundant

text, the program plan provides an excellent level of documentation using text and

formats easily readable and understandable by a wide audience.

Agriculture (Green)

It appears there is no plan to verify Resource Improvement projects or non-cost share agricultural conservation practices; only cost-shared, regulatory and permitted practices appear to be the focus of verification—please confirm that this is the case.

	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: Delaware confirmed that they did not have plans at this time to verify Resource Improvement projects or non-cost share agricultural conservation practices.	
	lans for follow up inspections were not clear across many of the practices, with some	ne
	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: Delaware has revised its text and supporting tables so that the information provided in both are fully consistent.	
th as	Most practices have a 100% review on initial implementation. The Panel was not sure 10% of subsampled practices are selected, as no documentation is provided. The ssumes that since multiple agencies report the data, that there are multiple methods election (NRCS, SCDs). Need to provide some documentation on the selection of absamples.	Panel
	Was this comment sufficiently addressed? Addressed: Partially Addressed: X Not Addressed: Comments: Delaware provides more rationale for the selection of their sampling percentages—e.g., tillage practices—whereas for other practices, Delaware still just references other agency's percentages—e.g., USFWS and stream restoration verification—without providing documentation that that Agency's percentage is consistent with Delaware's programmatic objectives.	

Given Delaware's plans to review only 5% of practices every year, they need to provide more detailed documentation supporting this choice of a subsampling amount and whether/how this is related to Delaware's Watershed Implementation Plan's list of practices.

	Was this comment sufficiently addressed? Addressed:	
	Comments: Delaware provides more rationale for the selection of their sampling percentages—e.g., tillage practices—whereas for other practices, Delaware still just references other agency's percentages—e.g., USFWS and stream restoration verification—without providing documentation that that Agency's percentage is consistent with Delaware's programmatic objectives.	
sy	isual inspections for nutrient management plans seem to be complaint driven rather estematic, random inspections that would be necessary to ensure public confidence 7, 68, 70).	
	Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: X Comments: Delaware's documentation of their planned verification of nutrient management plans remains largely the same as originally submitted in June 2015. The only exception is the deletion of a single paragraph on page 70 in the original June 2015 draft program plan which described the compliant driven process.	
N	o reference to plans for independent review of any collected or reported data.	
	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: All submitted data are reviewed and quality assured by the Quality Assurance Officer.	
	And the Control of th	

List Delaware's set of high priority BMPs on which the state will focus most of its verification efforts and include percent contributions to total planned WIP reductions.

	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: Delaware lists its high priority BMPs on which the state will focus most of its verification efforts and include percent contributions to total planned WIP reductions in each respective sector section by groups of BMPs for which BMP verification protocols are described.	
ta	aspection practices differ from BMP to BMP and program to program. While the probles and narrative do a good job of explaining the programs, a justification of the afferences would be useful.	rovided
	Was this comment sufficiently addressed? Addressed: Partially Addressed: X Not Addressed: Comments: Delaware provides some level of documentation for the verification protocols presented for each respective group of BMPs by sector, but does not provide documentation explaining the differences across groups.	
	oes the program plan commit to conducting annual conservation tillage surveys at sonfidence?	90%
	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: Yes it does.	

V	Was this comment sufficiently addressed? Addressed:
C	Comments: [Reviewer does not understand the comment.]
share	Panel pointed out that Delaware did not document any verification protocols for non-coed practices. a. Sussex County and the Delaware Department of Agriculture has been actively tracking and reporting non-cost shared practice. Delaware has not had time yet to document verification protocols for non-cost shared practices but plans to do so.
Was this co	omment sufficiently addressed? : X Partially Addressed: Not Addressed:
	: Delaware recognized it does not plan to verify and report non-cost etices at this time.
trans	Statistical Sampling Design Review Team has expressed concerns about the 110 mile sects and 460 samples selection by Delaware and its lack of relationship to the relative ages of cropland compared to total land areas.
Was this co	omment sufficiently addressed? : X Partially Addressed: Not Addressed:

Comments: The Statistical Sampling Design Review Team has review the design of Delaware's CTIC-based sampling program for verifying tillage practices and cover crops and documented its full support for the documented

methodology.

Table D1-2 does not contain all of the highest priority BMPs from Appendix P that are detailed in the report, such as Soil and Water Conservation Plans and Nutrient Management Planning.

Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
Comments: Both sets of practices are now included.
Does DE really inspect 100% of cover crop practices annually, including being "inspected for compliance or failure"? That was 30,921 acres in 2014, and projected to be 85,619 acres in 2025.
It sounds more like they are conducting a transect survey of a small sample of cover crop acreage, then extrapolating this transect survey data to the larger dataset.
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
Comments: Delaware conducts 100 percent inspections for all cost shared cover crop practices and separately extrapolates results from its tillage practices/cover crop survey based on the original CTIC survey. [Reviewer's note: Delaware needs to document how it merges the results of these two procedures—cost share acreages inspected and sampling design survey estimated acreages.—for cover crops.]
For Soil and Water Conservation Plans, on page 64, does the Initial Inspection Frequency of "1/year" mean that every soil and water conservation plan is inspected once within the first year of plan development?
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
Comments: Delaware documented all plans are assessed non-visually each year as required by NRCS contracts with all practices visually inspected on-site during the lifespan of the BMP as required by USDA by NRCS or District planners.

There is some discrepancy between what is presented in this BMP verification document for nutrient management planning and what we heard about the nutrient management planning program from DDA during our animal agriculture program assessment...

1. The BMP verification document states that "Nutrient management practices are regulatory and 100% of all practices are non-visually inspected annually through agencies involved in the nutrient management process – Conservation Districts and NRCS develop the plans" (p.70). However, DDA does not have copies of all NMPs or even know everyone who has an NMP. While some NMPs are developed by the CDs and NRCS, many other NMPs are developed by private nutrient consultants. In DE, farmers are supposed to notify the DE Nutrient Management Commission (DNMC) within 60 of completing an NMP. However, farmers do not need to submit their NMPs to DDA for DDA's files nor for review/approval. Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: Reviewer is not familiar enough EPA's DE animal agriculture program assessment to know if this comment was partially addressed. Given there were almost no changes made to the Nutrient Management section of the program plan, it's unlikely this comment has been addressed in the November 16 revised version. The BMP verification document states that "DDA inspects 60 farms annually for compliance" (p. 70). I can't tell you what percent of the NMP universe that is exactly, because DDA does not know how many NMPs there are in Delaware. DDA's best estimate is ~1.072 NMPs, which is based on the number of NMP annual report forms that DDA mailed out to AFOs and crop-land farmers in 2014. However, as explained above, there is a glitch in DDA's data system that deletes any farmer from the database that does not submit an annual report. Therefore, if a farmer did not submit an annual report in 2011, that farmer would be removed from the database and would not be tracked by or receive further communication from DDA. DDA is working to fix this glitch. Based on the estimate of 1,072 NMPs, DDA conducts compliance visits at ~6% of NMP facilities annually. This is lower than DDA's estimate of 10% in the BMP verification documentation (p.71).Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: X Comments:

DE states that "All (100%) nutrient management plans are inspected upon implementation and recorded with DDA (via annual reports)" (p.72). As described above, this is not what DDA explained to us during the animal agriculture program assessment. In DE, farmers are supposed to notify the DE Nutrient Management Commission (DNMC) within 60 of completing an NMP. However, farmers do not need to submit their NMPs to DDA, neither to be included in DDA's files nor for DDA to review/approve. Farmers must maintain the NMPs on site, and DDA is supposed to verify the NMP when it conducts its compliance visits. The statement that all NMPs are inspected upon implementation does not correspond to what DDA explained to us.

Was this comment sufficiently addressed?	
Addressed: Partially Addressed: Not Addressed: X	
Comments:	
For Animal Waste Management Systems, the verification procedures focus on cost-sharsystems at permitted CAFOs. What procedures is Delaware going to use for non-cost-sanimal waste management systems?	•
Was this comment sufficiently addressed?	
Addressed: X Partially Addressed: Not Addressed:	
Comments: Delaware clearly states it does not have plans to verify non-cost shared practices at this time.	

Forestry [Yellow]

DE's Protocol for follow-up inspections seems to depend entirely upon current procedure (generally 5-10%), but could be more clear. In the narrative, DE points out that timing of inspections is important, but says it has no influence over timing. It should be noted that DE has reported "0" RFB for the past several years despite their high reliance in the WIP.

Was this comment sufficiently addressed?
Addressed: X Not Addressed:
Comments: In Delaware, DDA DFS installs most large scale buffer and tree
planting projects. DFS inspects 100% of plantings post installation. Approximately 1 year after planting, DFS inspects the projects again (100%).
One hundred percent of the buffer and tree planting projects are spot checked on
average every 7.5 years by the cost sharing agency (NRCS, DFW, DFS, etc).
During this time, projects are assessed for water quality impacts. NRCS
verification timing will be at the organization's discretion. A final inspection is
completed at contract or lifespan expiration (approximately 10-15 years).
FWG guidelines suggest 100% site inspection at planting or immediately prior; a second inspection during the period a buffer is becoming established (1-4 years) to assure that any maintenance problems are detected and corrected, and risks identified; inspections during years 5-10 based on a risk-based statistical sampling with 80% confidence; and 100% inspection near the end of contract to encourage/facilitate buffer retention. DE's Protocols do not follow this.
Was this comment sufficiently addressed?
Addressed: X Not Addressed: L

water quality standards such as channelization or concentrated flows? Not found in DE's protocol. Was this comment sufficiently addressed? Partially Addressed: Not Addressed: Addressed: Comments: Do statistical sampling methods document how they demonstrate a clear improvement over the current sampling rate? (The recommended rate is 80% confidence in reported practices) Not found in DE's protocol. Was this comment sufficiently addressed? Not Addressed: Addressed: Partially Addressed: Comments: Does the program rely upon qualified local forestry partners for tracking, reporting, and maintenance for expanded tree canopy practices? The protocol covers cost-share urban tree planting. Tree Canopy practices are represented by a new Management Strategy as well as an Expert Panel to determine efficiencies of the BMP. DE Forest Service is helping the FWG to develop improved tracking procedures accordingly. Possible areas of improvement are tracking and crediting urban tree planting performed by localities under stormwater permits or voluntary tree planting. Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: Comments: Delaware's plan is still limited to/focused on tracking and reporting by DFS foresters.

Do proposed site inspection methods focus on common maintenance issues specifically related to

Delaware does not explain how they are going to track practices after 15 years. Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: Comments: Once project lifespan or contract expires, Delaware will use high resolution imagery and Light Detection and Ranging (LiDAR) data to determine the existence of riparian forest buffer and tree planting practices. The Delaware Forest Service has quantified the spatial extent of forests and urban tree canopy coverage in the State. Periodically, DNREC and DFS will use these original datasets developed by DFS to determine if a net gain occurs over time and practices exist upon expiration. Additionally, the U&CF with DNREC will utilize Davey i-Tree software to set tree canopy goals and facilitate proper urban forest management strategies. Need to clarify inspection timeline for some BMPs (e.g. page 94-96). Was this comment sufficiently addressed? Partially Addressed: Not Addressed: Addressed: Comments: A follow-up inspection should added for high-risk plantings. Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: X

Comments:

V	Was this comment sufficiently addressed? Addressed: Not Addressed: X
C	Comments:
	e evidence that the baseline acres for each practice is tracked in order to ensure there is acres over time.
V	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
a u ti u	Comments: The Delaware Forest Service has quantified the spatial extent of forests and urban tree canopy coverage in the State. Periodically, DNREC and DFS will use these original datasets developed by DFS to determine if a net gain occurs over time and practices exist upon expiration. Additionally, the U&CF with DNREC will utilize Davey i-Tree software to set tree canopy goals and facilitate proper urban forest management strategies.
Partner with	h Delaware Forest Service and NGOs to augment the NRCS buffer inspections.
V	Was this comment sufficiently addressed? Addressed:
C	Comments: DFS Foresters are involved, but not NGOs.
	I relevant portions of referenced documents into the main document so that reviewing materials is not required for basic comprehension of the program plan.
V	Was this comment sufficiently addressed? Addressed: X Not Addressed:
	Comments:

No justification for sub-sampling percentages.

Stream Restoration [Green]

Need to provide answers to the questions in the Panel's stream restoration evaluation form in the revised verification program plan.

Was this comment sufficiently Addressed: Partia	addressed?		Not Addressed:	X
Comments:				
Need to clarify the inspection tippage 107 after three years.	me frames betwee	n the tex	t on page 108 and	Table 2.3.1.1 on
Was this comment sufficiently				
Addressed: Partia	lly Addressed:	Ш	Not Addressed:	X
Comments:				
Need to define heavy storms.				
Was this comment sufficiently				
Addressed: Partia	lly Addressed:		Not Addressed:	X
Comments:				

Relying strictly on visual inspection and not functional assessments as recommended by the Stream Health Workgroup's guidance. If post-construction inspections are only visual, the inspection may not be able to truly address function, and stability of hydrology and vegetation.

Addressed: X Partially Addressed: Not Addressed: Comments: Delaware expanded its description of its stream restoration verification protocols to provide more detailed documentation on the actions that an inspector would carry out (see pages 108-109). Unclear from the text on pages 108-109 exactly how Delaware plans to implement the USFWS Rapid Stream Restoration Monitoring Protocol methodology—right now that USFWS protocol is strictly referenced and briefly described in the text. Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: Delaware expanded its description of its stream restoration verification protocols to provide more detailed documentation on the actions that an inspector would carry out (see pages 108-109). There were a lot of citations to outside documents. Pull relevant details into the body of the document so it offers a complete picture of the program. Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Not Addressed: Delaware described the elements of the USFWS's Rapid Stream Restoration Monitoring Protocol within its revised program plan (see pages 108-109).		Was this comment sufficiently addressed?	
Unclear from the text on pages 108-109 exactly how Delaware plans to implement the USFWS Rapid Stream Restoration Monitoring Protocol methodology—right now that USFWS protocol is strictly referenced and briefly described in the text. Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: On the actions that an inspector would carry out (see pages 108-109). There were a lot of citations to outside documents. Pull relevant details into the body of the document so it offers a complete picture of the program. Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: On the document so it offers a complete picture of the program. Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: On the Add			
USFWS Rapid Stream Restoration Monitoring Protocol methodology—right now that USFWS protocol is strictly referenced and briefly described in the text. Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: Delaware expanded its description of its stream restoration verification protocols to provide more detailed documentation on the actions that an inspector would carry out (see pages 108-109). There were a lot of citations to outside documents. Pull relevant details into the body of the document so it offers a complete picture of the program. Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: Delaware described the elements of the USFWS's Rapid Stream Restoration Monitoring Protocol within its revised program plan (see pages 108-		protocols to provide more detailed documentation on the actions that an inspector	
Addressed: X Partially Addressed: Not Addressed: Comments: Delaware expanded its description of its stream restoration verification protocols to provide more detailed documentation on the actions that an inspector would carry out (see pages 108-109). There were a lot of citations to outside documents. Pull relevant details into the body of the document so it offers a complete picture of the program. Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: Delaware described the elements of the USFWS's Rapid Stream Restoration Monitoring Protocol within its revised program plan (see pages 108-	U	SFWS Rapid Stream Restoration Monitoring Protocol methodology—right now that	
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed: Comments: Delaware described the elements of the USFWS's Rapid Stream Restoration Monitoring Protocol within its revised program plan (see pages 108-		Addressed: X Partially Addressed: Not Addressed: Comments: Delaware expanded its description of its stream restoration verification protocols to provide more detailed documentation on the actions that an inspector	
Addressed: X Partially Addressed: Not Addressed: Comments: Delaware described the elements of the USFWS's <i>Rapid Stream Restoration Monitoring Protocol</i> within its revised program plan (see pages 108-		·	of the
Restoration Monitoring Protocol within its revised program plan (see pages 108-			
		Restoration Monitoring Protocol within its revised program plan (see pages 108-	

There is 100% visual inspection, but please clarify who is the non-regulatory agency performing the inspections to assess the project design and installation?
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
Comments: The evaluations will be conducted through DE DNREC's Division of Watershed.
The Panel asked Delaware to address what occurs after initial 5 years of inspections and spechecks.
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
Comments: Delaware states that "following the first three years, projects will be inspected at least once every five years as well as after heavy storm events, which are defined as a 10 year storm recurrence interval." (page 108)
The Panel asked Delaware to address function, not just presence in developing and implementing its stream restoration verification protocols.
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
Comments: Delaware expanded its description of its stream restoration verification protocols to provide more detailed documentation on the actions that an inspector would carry out (see pages 108-109).

Does the program require a post-construction certificate to ensure that the project was installed properly, meets its functional restoration objectives, and is hydraulically and vegetatively stable?

No, could not find any reference to post construction certification

Was this comment sufficiently addressed? Addressed: Partially Addressed:	Not Addressed:	X	
Comments:			
What is the defined amount of time a locality/fe rehabilitation to bring a sub-standard BMP ba		corrective mai	intenance or
No criteria for when a credit will be removed o	r specific time period giv	en for correcti	on.
Was this comment sufficiently addressed? Addressed: Partially Addressed:	Not Addressed:	X	
Comments:			
Are separate procedures necessary, and if so, is purpose of nutrient trading within a state or to			
No, doesn't appear applicable.			
Was this comment sufficiently addressed? Addressed: Partially Addressed:	Not Addressed:	X	
Comments:			

Urban Stormwater (Yellow)

leed to address the end of life span, re-verification, continued reporting and crediting rocedures.
Was this comment sufficiently addressed? Addressed:
Comments:
hould move the urban street sweeping practice into the stormwater verification section, and nsure appropriate consistency with the inspection approach for other urban stormwater ractices.
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
Comments: Delaware provided more detailed documentation on pages 125-127.
lease ensure the tables and text are fully consistent on pages 117 and 119 in relation to ming of visual inspections and practice lifespan.
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
Comments:

	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
	Comments:
	AS4 program and any other post-construction stormwater verification protocols should
	ited and clearly documented. Narrative and tables seem to be limited to erosion and ediment control stormwater regulations.
	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:
	Comments:
	Comments.
Pane	el asked that post construction inspections conducted by the owners also require an
epend	lent check on those inspections—some level of validation.
	s comment sufficiently addressed?
dragg	sed: X Partially Addressed: Not Addressed:
iures	nto, Contant add don no con 106 127
	ents: See text added on pages 126-127.
	ents: See text added on pages 126-127.

Includes confusing statements about inspection by the owner and then giving a report to the

For stormwater, there is a large table of BMPs where and how data is actually generated. There construction BMPs, only street sweeping and E	e is no discussion of MS4	s and associated post-
Was this comment sufficiently addressed? Addressed: X Partially Addressed:	Not Addressed:	
Comments:		
Wastewater (Red)		
Need to state that there are four significant wast and surface water within Delaware's Chesapeak reaching their Bay TMDL permit limits.		
Was this comment sufficiently addressed? Addressed: X Partially Addressed:	Not Addressed:	
Comments: Text added to page 135.		
Onsite systems inspections appear to be only corecommendations from Table B-17 of the Onsit		
Was this comment sufficiently addressed? Addressed: X Partially Addressed:	Not Addressed:	
Comments:		

Need reference to procedures (e.g., 1				eatmen	t discharge fac	cilities and	d their verification	n
Was this commer Addressed:	nt suffici	ently addressed Partially Addre			Not Addresse	ed:		
Comments:								
No inspection of	on-site t	reatment systen	ns.					
Was this commer Addressed:	nt suffici	ently addressed Partially Addre			Not Addresse	ed:		
Comments:								
Please explicitly s watershed.	state that	t there are no C	SOs in D	elaware	e's portion of t	the Chesa	peake Bay	
Was this commer Addressed:	nt suffici X	ently addressed Partially Addre			Not Addresse	ed:		
Comments: Dela town, through ins which has storm heavy rain events occur. The Town	spection drains co s (greater	and testing, has onnected to the verthan 2 inch ever	identified wastewate ent) there	l one sec er treatm is a poss	ction of the con ent plant syste sibility for disc	mmunity em. During charge to		

locations within town to prevent untreated overflows to the local waters.

(Page 137)

Construction is expected to begin by September 2016 and completed by May 2017.

The Panel asked Delaware to review and answer the applicable wastewater treatment evaluation review questions contained within Appendix A on page 51-52 in the Panel's August 7th report to the jurisdictions in their revised wastewater verification protocol documentation.

Was this comment sufficiently addressed? Addressed:	
Comments: Delaware addresses most of the original evaluation questions, but not the questions addressing non-significant wastewater treatment facilities.	
What is the verification methodology and tracking for septic system pumpout?	
	7
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:	
Comments: Delaware addresses this comment on pages 132-134.	
There could be a tracking and verification methodology for removal of any ongoin	g illicit discharges.
Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: X	
Comments:	

Wetlands (Green)

There are a lot of details missing from this guidance that are likely included and cited in the NRCS wetland guidance. Need to extract the important procedures and concepts from the references documents add them into the main document.

Was this comment sufficiently addressed? Addressed: X Not Addressed:	
Comments: Delaware provided some additional text on pages 113-115, but still maintained their URL link to the more detailed documentation in NRCS's Wetlands Reserve Program manual as recommended by the Panel.	
Need to clearly cite the outside guidance documents and provide URL links for furt	her information.
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:	
Comments: Delaware provided URL links to the more detailed documentation in NRCS's Wetlands Reserve Program manual as well as the specific NRCS verification sheet.	
Make consistent the reference to 5 years in the text on page 111 vs. reference to 10 2.3.2.1 on page 110.	years in the Table
Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:	
Comments: Both the table and the text reference 5 years as the period in which annual monitoring will take place over; the reference to 10 years in Table 2.3.2.1 is the overall life span for the practice.	

Unsure if onsite monitoring was required within 3 years following construction or whether imagery is used for remote observation of long-term monitoring of wetland BMPs.
Was this comment sufficiently addressed? Addressed: Not Addressed: X
Comments: The revised plan doesn't add any further clarity about this point.
Unclear whether a project file is maintained by the installing agency for each restoration proinstalled. Please clarify.
Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: X
Comments:
Need to address what happens at the end of the established life span and plans for re-inspec
Was this comment sufficiently addressed? Addressed: Partially Addressed: X Not Addressed: X
Comments:

Was this Addres		fficiently addressed? Partially Addressed:		Not Addressed:	: X	
Commer	nts:					
					1 0 0	
rotocol o etermine nclude cr	loes not ment ed, but this ma reation and en	includes many recommendation if the predominance by be covered in the habit hancement. However, the tion projects, and it is not be a supplementation of the projects.	of native itat detern nere is not	vegetation, or oth nination. Wetland yet an efficiency	er field indicator restoration is st assigned to	ors will be cated to also
Was this Addres		fficiently addressed? Partially Addressed:		Not Addressed:	: X	
Commer	nts:					
Sinal R	Recommen	dation				
	What is you	r recommended EPA dec			•	
	Approval	Conditional A	Approval	X Return	n w/comments:	\sqcup

Delaware Agriculture

It appears there is no plan to verify Resource Improvement projects or non-cost share agricultural conservation practices; only cost-shared, regulatory and permitted practice appear to be the focus of verification—please confirm that this is the case.
Was this comment sufficiently addressed? Addressed:
Comments: Delaware acknowledged that this was the case, but did not amend plan to address resource improvement projects or non-cost share practices. "Delaware's verification program focuses on cost shared, regulatory, and permitted practices. In the future, as Delaware implements the verification program, resource improvements will be incorporated." (p.59)
Plans for follow up inspections were not clear across many of the practices, with some contradictory information in the table versus the supporting text.
Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: X
Comments: I am not sure what practices the expert panel was specifically referencing. However, Delaware did not appear to add any additional language clarifying the frequency of follow-up inspections for any of the agricultural BMPs.

Most practices have a 100% review on initial implementation. The Panel was not sure how the 10% of subsampled practices are selected, as no documentation is provided. The Panel assumes that since multiple agencies report the data, that there are multiple methods for selection (NRCS, SCDs). Need to provide some documentation on the selection of subsamples.

Was this comment sufficiently addressed? Addressed:
Comments: Delaware explains that 10% sub-sample will be "randomly chosen" for these sub-sampled practices.
For nutrient management planning: "DDA reviews 60 plans per year or approximately 10% annually. Most plans are randomly chosen for review; few are complaint driven. Additional checks are conducted by NRCS during farm record review for Conservation Security Program." (p.70)
For conservation tillage transect surveys: "In addition to the original survey team, a Quality Assurance and Quality Control team retraces the original routes after the initial survey is conducted to ensure the data captured is consistent. The QA/QC team consists of members that did not participate in initial survey, but from the same organizations. Using the same GPS coordinates as marked in the initial survey run-through, the team checks and confirms or rejects the initial observations on at least 10% of the observations. Members on the QA/QC team have access to the original observations and are able to compare them with their own judgments. The QA/QC team begins immediately after the initial observations are made. The team is able to verify a random sample of the initial observations; at most, two days after the initial observations are made. This ensures that the conditions originally observed are as close as possible to what was viewed in the QA/QC runs." (p.80) "Additionally, a 10% sub-sample is made by the Quality Assurance and Quality Control Team also described above." (p.82)
For livestock waste management systems, animal waste management systems, and poultry waste management systems, and mortality composters: "Follow-up inspections (10%) will be randomly chosen, while ensuring no successive duplication, by the Quality Assurance Officer from practices entered into the NPS BMP database. Additionally, inspections may be conducted by the implementing agency for contract requirements; those inspections will be reported to the Quality Assurance Officer." (p.85)
For grass buffers, land retirement, and water control structures: "Follow-up inspections (10%) will be randomly chosen, while ensuring no successive duplication by the Quality Assurance Officer from practices entered

	into the NPS BMP database. Additionally, inspections may be conducted by the	
	implementing agency for contract requirements; those inspections will be reported to the Quality Assurance Officer." (p.90)	
	For stream restoration: "Following the first three years, projects will be inspected at least once every five years as well as after heavy storm events, which are defined as a 10 year storm recurrence interval. This will entail verifying at least 10 percent of reported practices every year." (p.108)	
	For wetland restoration: "Once restoration has been implemented all monitoring will occur at least once every 5 years through an onsite visit. The site may be monitored through offsite or remote sensing methods the other four years. This will entail verifying at least 10 percent of reported practices every year." (p.112)	
d	Given Delaware's plans to review only 5% of practices every year, they need to prove the proving this choice of a subsampling amount and whether his is related to Delaware's Watershed Implementation Plan's list of practices.	
	Was this comment sufficiently addressed? Addressed:	
	Comments: This 5% subsampling applies to forest buffers, tree planting, and urban tree planting. Delaware does not explain how the 5% sub-sample is selected.	
	"5% annually or 100% by end of contract lifespan" (p.94)	
3	Visual inspections for nutrient management plans seem to be complaint driven rather ystematic, random inspections that would be necessary to ensure public confidence (7, 68, 70).	
	Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:	
	Comments: This was addressed. "One hundred percent of all nutrient management plans are inspected at initial implementation or plan conception. Several agencies conduct follow-up inspections; however, DDA follows compliance requirements per nutrient management regulations. DDA reviews 60 plans per year or approximately 10% annually. Most plans are randomly chosen for review; few are complaint driven. Additional checks are conducted by NRCS during farm record review for	

Conservation Security Program. All plans comply with Delaware's Nutrient

Management Law and I lifespan." (p.70)	Site Index a	and are insp	ected c	or renew	ed after p	olan	
No reference to plans for i	ndependent	review of ar	ny colle	cted or r	eported d	ata.	
Was this comment suffice Addressed:	iently addres Partially Add			Not Add	ressed:	X	
Comments: I am not sure but Delaware does not ap data for any of the agricu	pear to addre	ess independ					
List Delaware's set of high verification efforts and inc							
Was this comment suffice Addressed: X	iently addres Partially A			Not Ac	ldressed:		
Comments: Delaware ad "The list below contains will focus most of its ve total planned WIP nutri	s the high pr rification eff	iority Agricu orts and inc					
Agriculture Best Management Practice	Relative cont Nitrogen	Phosphorus		tion Ilment			
Cover Crops (traditional and commodity)	22.1%	•		•			
Conservation Plans	3.9% 5.0%	4.0%		7.6%			
Nutrient Management Manure Relocation	9.0%	6.8% 8%	- '	•			
Conservation Tillage	11.2%	7.3%	5	5.8%			
Animal Waste Management Systems Mortality Composters	10.2%	23.7% 1.7%	_	•			
Grass Buffers	10.3%	6.7%	6	5.5%			
Land Retirement Water Control Structures	1.0%	+ :		:			
*denotes no significant relativ		s or no efficiency red	uction credited	d	(
•					" (p.59)		
Inspection practices differ	from BMP t	o BMP and	prograi	n to pros	gram. Wh	ile the prov	vide
tables and narrative do a g							.100
differences would be usefu		spianing in	e progra	ams, a ju	stification	i or the	
Was this comment suffice Addressed:	iently addres Partially Add			Not Add	ressed:	X	
Comments: I'm not sure appear to respond to this		el was looki	ng for, l	but Delav	vare did n	ot	

Does the program plan commit to conducting annual conservation tillage surveys at 9 confidence?	0%
Was this comment sufficiently addressed? Addressed:	
Comments: This is beyond my expertise. Delaware does state that EPA already approved its methodology as accurately estimating tillage. "In October 2015, EPA's statistical team reviewed Delaware's approach for generating and verifying BMP data for both conservation tillage and cover crops. The team verified that Delaware's survey will accurately estimate tillage and cover crop BMPs with the proposed 100% verification protocol and 100% statistical sampling." (p.78)	
For agriculture, transparency is a documented issue for the public. Is there any value small, comparative study of CAFO performance on BMPs to inform the public, and a discussion of comparative aggregate AFO performance?	
Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: X	
Comments: I'm not sure what the panel was looking for, but Delaware did not respond to this comment.	
The Panel pointed out that Delaware did not document any verification protocols for shared practices. a. Sussex County and the Delaware Department of Agriculture has been actively tracking and reporting non-cost shared practice. Delaware has not had time ye document verification protocols for non-cost shared practices but plans to do	y et to
Was this comment sufficiently addressed? Addressed:	
Comments: "Sussex County and the Delaware Department of Agriculture has been actively tracking and reporting non-cost shared practice. Delaware has not had time yet	

Was this co		ently addressed? ly Addressed:	□ No	ot Addressed:	X
looking for	. Delaware did	d my expertise, and not provide any tests and 460 sample	urther exp		
Delaware's "The direct	three counties ion of the route	ired to be at least s." (p.80) e was not importa D miles long in eac	ant, howev	er, the route wa	as
		eliable data set, a along the route."			d sites
Table D1-2 doe the report, such	es not contain al as Soil and Wa mment sufficien	ll of the highest printer Conservation I	ority BMPs	from Appendix	
Addressed	ı: Pai	ruany ruanessea.			

Does DE really inspect 100% of cover crop practices annually, including being "inspected for compliance or failure"? That was 30,921 acres in 2014, and projected to be 85,619 acres in 2025. It sounds more like they are conducting a transect survey of a small sample of cover crop acreage, then extrapolating this transect survey data to the larger dataset.

	Was this comment sufficiently addressed? Addressed: Not Addressed:	
	Comments: Delaware did not add additional language to address this comment. However, the report originally stated and still states that 100% of cover crop practices are inspected annually.	
	"100% of all practices are inspected after planting and destruction of crop." (p.61)	
	"After certification, District planners map the acres and physically inspect each field for program compliance. In the spring, a destruction form is mailed to the farmer and they must certify in writing each field as destroyed. The destruction certification form captures acres destroyed, acres harvested, destruction method, and destruction date. The planners go out again to inspect each field to ensure the cover crop has been destroyed." (p.61)	
	"All (100%) cover crop practices are inspected annually. Inspections are made after implementation and after destruction/harvest." (p.62)	
"1	or Soil and Water Conservation Plans, on page 64, does the Initial Inspection Frequence./year" mean that every soil and water conservation plan is inspected once within the fifther plan development?	-
	Was this comment sufficiently addressed? Addressed: Not Addressed: X	
	Comments: Delaware did not address this comment. The report states that plans are checked within the practice lifespan, which is not consistent with being checked once per year.	
	"All plans are inspected within the practice lifespan by NRCS or Conservation Districts. Additionally, checks are made upon implementation and before contract end dates by the funding agency; hence, BMPs are verified for functionality." (p.66)	

There is some discrepancy between what is presented in this BMP verification document for nutrient management planning and what we heard about the nutrient management planning program from DDA during our animal agriculture program assessment...

1. The BMP verification document states that "Nutrient management practices are regulatory and 100% of all practices are non-visually inspected annually through agencies involved in the nutrient management process – Conservation Districts and NRCS develop the plans" (p.70). However, DDA does not have copies of all NMPs or even know everyone who has an NMP. While some NMPs are developed by the CDs and NRCS, many other NMPs are developed by private nutrient consultants. In DE, farmers are supposed to notify the DE Nutrient Management Commission (DNMC) within 60 of completing an NMP. However, farmers do not need to submit their NMPs to DDA for DDA's files nor for review/approval.

Was this comment sufficiently addressed?

Addressed: Partially Addressed: Not Addressed: X

Comments: Delaware did not address this comment. As the comment notes, the ag program assessment determined that DE does not receive all annual reports and does not track everyone who has an NMP. Therefore, DE is not inspecting or reviewing 100% of all nutrient management practices annually.

Delaware also indicates in their verification plan that "Nutrient management planning acres are calculated using the total number of acres from the DDA annual reports database with a 5% adjustment." I am unsure what the 5% adjustment refers to, since it is not explained in the report and the CBPO is unaware of this adjustment. Is Delaware assuming that the sum of the annual reports underestimate the total acreage under nutrient management planning and wants to receive credit for additional acreage? Adding 5% arbitrarily seems to be the opposite of the goal of the BMP verification plan.

The BMP verification document states that "DDA inspects 60 farms annually for compliance" (p. 70). I can't tell you what percent of the NMP universe that is exactly, because DDA does not know how many NMPs there are in Delaware. DDA's best estimate is ~1,072 NMPs, which is based on the number of NMP annual report forms that DDA mailed out to AFOs and crop-land farmers in 2014. However, as explained above, there is a glitch in DDA's data system that deletes any farmer from the database that does not submit an annual report. Therefore, if a farmer did not submit an annual report in 2011, that farmer would be removed from the database and would not be tracked by or receive further communication from DDA. DDA is working to fix this glitch. Based on the estimate of 1,072 NMPs, DDA conducts compliance visits at ~6% of NMP facilities annually. This is lower than DDA's estimate of 10% in the BMP verification documentation (p.71).

Was this comm	ent su	fficiently addressed?		
Addressed:		Partially Addressed:	Not Addressed:	X

Comments: Delaware did not address this comment.	
DE states that "All (100%) nutrient management plans are inspected upon implementation and recorde with DDA (via annual reports)" (p.72). As described above, this is not what DDA explained to us during the animal agriculture program assessment. In DE, farmers are supposed to notify the DE Nutrient Management Commission (DNMC) within 60 of completing an NMP. However, farmers do not need to submit their NMPs to DDA, neither to be included in DDA's files nor for DDA to review/approve. Farmers must maintain the NMPs on site, and DDA is supposed to verify the NMP when it conducts its compliance visits. The statement that all NMPs are inspected upon implementation does not correspond what DDA explained to us.	ng to
Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: X Comments: Delaware did not address this comment. The ag program assessment determined that DE does not inspect or review all NMPs upon development or initial implementation and that DE does not receive all annual reports.	
For Animal Waste Management Systems, the verification procedures focus on cost-shared systems and systems at permitted CAFOs. What procedures is Delaware going to use for non-cost-shared, non-CAF animal waste management systems?	
Was this comment sufficiently addressed? Addressed: Partially Addressed: X Not Addressed:	
Comments: Delaware added language that Delaware's verification procedures do not currently address non-cost shared, non-CAFO practices.	
"Delaware's verification program focuses on cost shared, regulatory, and permitted practices. In the future, as Delaware implements the verification program, resource improvements will be incorporated." (p.59)	

to

Delaware Stormwater

	Was this comment sufficiently addressed? Addressed:
	Comments: DE is relying mostly on their construction program and new development and redevelopment regulations to achieve reductions in the urban sector.
Is	field performance verification scheduled for every other MS4 permit cycle? How oft
	Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: Comments: Verification not linked to MS4 program. See below answer.
	Comments. Verification not mixed to 14154 program. See below answer.
	pes the program link the timing of visual inspections to the length of credit durations ormwater practices?
	Was this comment sufficiently addressed? Addressed:
	Comments: DNREC performs triennial review of delegated agencies

4.		fill MS4 communities be assessing their entire BMP populations within two permit cycles? In will they address pre-2000 BMPs prior to pre-1990 BMPs?
		Was this comment sufficiently addressed? Addressed:
		Comments: Currently no MS4s within the CB watershed. Designation expected to change due to the 2010 census, but still a very small source. As a result, DNREC is not relying on the MS4 program to achieve urban reductions.
5.		That is the defined amount of time a locality/federal facility has to take corrective maintenance rehabilitation to bring a sub-standard BMP back into compliance?
		Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: X
		Comments:
6.	sta	oes the program address proper installation, whether or not the practice meets the design andards, and whether it functions in the hydrologic manner in which it was designed prior to bmitting the BMP for credit?
		Was this comment sufficiently addressed? Addressed:
		Comments: Part of DNREC triennial review

7.	ap	the program consistent with the Bay Program-approved reporting standards? Do they allow propriate flexibility for practices that don't lend themselves to the NEIEN geographic reporting quirements?
		Was this comment sufficiently addressed? Addressed: Not Addressed:
		Comments: Credit duration/lifespan based on CBPO spreadsheet for BMPs (p. 125)
8.		e verification efforts prioritized according to a practice's contribution to the overall TMDL llutant reduction in a state's urban source sector? Yes
		Was this comment sufficiently addressed? Addressed: Not Addressed: Not Addressed:
		Comments: See p 55 Table D1-2
9.		ill the jurisdiction provide spot checks on a subset of local and federal facility BMP project es to validate the reported BMP data? Yes
		Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed:
		Comments: See p 119 Table 2.4.1.1

Was this comm Addressed:	nent suff	ficiently addressed? Partially Addressed:		Not Addressed:	
Comments:					
e the fastest-grov	wing se	mi-regulated communition	es priorit	ized?	
		mi-regulated communition	es priorit	ized?	
			es priorit	ized? Not Addressed:	
Was this comm		ficiently addressed?	es priorit		
Was this comm Addressed:		ficiently addressed?	es priorit		
Was this comm Addressed:		ficiently addressed?	es priorit		

Need to provide a		to the questions in the P	anel's s	tream restoration e	valuation fo
<u></u>		ficiently addressed? Partially Addressed:		Not Addressed:	
Comments.					
Need to clarify the age 107 after the		ction time frames betweens.	en the te	xt on page 108 and	l Table 2.3.
Was this comm Addressed:	ent suffi	ciently addressed? Partially Addressed:		Not Addressed:	x
Comments: Wo	ording or	n page 108 is consistent w	vith Tabl	e 2.3.1.1.	
Need to define he	eavy stoi	rms.			
Was this comm Addressed:	nent suff	iciently addressed? Partially Addressed:		Not Addressed:	
Comments: A	heavy sto	orm is a ten year storm re	currence	.	

Relying strictly on visual inspection and not functional assessments as recommended by the Stream Health Workgroup's guidance. If post-construction inspections are only visual, the inspection may not be able to truly address function, and stability of hydrology and vegetation.

Was this comment sufficiently addressed?

	Addressed: Partially Addressed:	X	Not Addressed:		
	Comments: Delaware plans to develop a function be describe a timeline or possibly cite current models models.				
U	nclear from the text on pages 108-109 exactly how SFWS Rapid Stream Restoration Monitoring Proto SFWS protocol is strictly referenced and briefly de	ocol m	ethodology—righ		
	Was this comment sufficiently addressed? Addressed: x Partially Addressed:		Not Addressed:		
	Comments: Page 109 explains in more detail how timplemented.	the Pro	tocol will be		
	here were a lot of citations to outside documents. Focument so it offers a complete picture of the programment		levant details into	the body	of the
	Was this comment sufficiently addressed? Addressed: x Partially Addressed:		Not Addressed:		
	Comments:				

	Was this con Addressed:		ficiently addre Partially Ac			Not Add	dressed:	X
			not seem to be inspections in					ılatory
cl	The Panel asked hecks.			what occur	rs after i	nitial 5 ye	ears of ins	spections
dress mme		not seem	ddressed: like it was a	<u></u>	ot Addre		x ould be	
	The Panel asked						n develop	oing and
	s comment suf sed: Pa	fficiently artially Ac		x N	lot Addr	essed:		
iuicss			are should inc					

Does the program require a post-construction certificate to ensure that the project was installed properly, meets its functional restoration objectives, and is hydraulically and vegetatively stable?

Was this comment sufficiently addressed? Addressed: Partially Addressed:	Not Addressed:	x	
Comments: This does not seem like it was add	dressed.		
What is the defined amount of time a locality/fe rehabilitation to bring a sub-standard BMP ba		corrective maintenance	or
No criteria for when a credit will be removed o	r specific time period giv	en for correction.	
Was this comment sufficiently addressed? Addressed: Partially Addressed:	Not Addressed:	X	
Comments: Time criteria should be added to t	he BMP to give better gu	idelines.	
Are separate procedures necessary, and if so, is purpose of nutrient trading within a state or to			or the
No, doesn't appear applicable.			
Was this comment sufficiently addressed? Addressed: Partially Addressed:	Not Addressed:	X	
Comments:			

-		Delawa	are We	etlands			
There are a lot of details missing from this guidance that are likely included and cited in the NRCS wetland guidance. Need to extract the important procedures and concepts from the references documents add them into the main document.							
Was this Addres		ficiently addressed? Partially Addressed:		Not Addressed:			
	to 92 – The D	elaware draft plan provic Standards list that is taild					
Was this	comment suf	outside guidance docu	ments and		cs for furt	her informatior	
Address Commer		Partially Addressed: was placed in the docume	ent.	Not Addressed:			
	nsistent the real	ference to 5 years in the	text on p	age 111 vs. referer	nce to 10	years in the Tal	
Was this Addres		ficiently addressed? Partially Addressed:		Not Addressed:			

Comments: Page 112 – The reference on page 112 discusses the table above.

Unsure if onsite monitoring was required within 3 years following construction or whether aeria imagery is used for remote observation of long-term monitoring of wetland BMPs.
Was this comment sufficiently addressed? Addressed: x Partially Addressed: Not Addressed:
Comments: Page 112 – Discusses the timeline when on-site visits will occur
Unclear whether a project file is maintained by the installing agency for each restoration project installed. Please clarify.
Was this comment sufficiently addressed? Addressed: x Partially Addressed: Not Addressed:
Comments: Page 114 – "Each Agency has separate verification databases and maintains files for implemented projects. These data are provided to the Quality Assurance Officer annually for Chesapeake Bay progress submissions. An outline of practice data submissions can be found in section B10 of Delaware's QAPP."
Need to address what happens at the end of the established life span and plans for re-inspection.
Was this comment sufficiently addressed? Addressed: x Partially Addressed: Not Addressed:
Comments: Page 114 – "Once the practice is no longer in its lifespan, the state will inspect the possibility of hiring a seasonal employee through DNREC's Wetland Assessment and Monitoring Program to inspect existing practices and update the inspection dates in the database upon successful functional verification."

Do follow-up inspections stop after 15 years? What happens to the practices after the	at point?
Was this comment sufficiently addressed? Addressed: x Partially Addressed: Not Addressed:	
Comments: Page 116 "The lifespan of wetland restoration is 15 years. The code in the DE NPS BMP Database has been modified so that the lifespan/credit duration is added to the implementation date of a particular BMP to calculate the Lifespan End Date. Once the Lifespan End Date has been passed, that BMP will be tagged as "retired"."	
The Delaware protocol includes many recommended elements, but would benefit from protocol does not mention if the predominance of native vegetation, or other field indicate determined, but this may be covered in the habitat determination. Wetland restoration is include creation and enhancement. However, there is not yet an efficiency assigned to enhancement/rehabilitation projects, and it is not clear if these projects can be identified NEIEN.	ators will be s stated to also
Was this comment sufficiently addressed? Addressed: Not Addressed:	
Comments: It is unclear of the question or the request.	