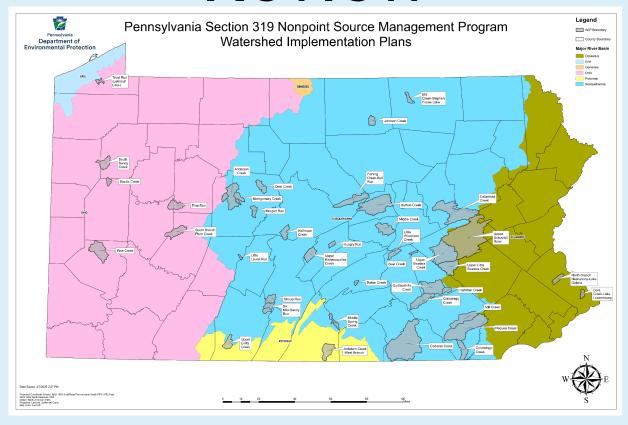
Watershed SEPA Implementation Plan's and Review



What's in a Watershed-based Plan?

Nine Minimum Elements of a Watershed-based Plan

- 1. Identify causes and sources of water pollution and estimate existing pollutant loads.
- 2. Set water quality goals and load reduction targets to achieve those goals and estimate load reductions expected from recommended management measures.
- 3. Describe the management measures needed to achieve load reduction targets.
- 4. Describe the technical and financial assistance (amount, costs, and sources) and relevant authorities needed to implement the plan.
- 5. Describe an information and education component to enhance public understanding and to encourage implementation of the plan.
- 6. Provide a schedule for implementing the management measures identified in the plan.
- 7. Identify interim, measurable milestones for determining whether management measures are being implemented on schedule.
- 8. Identify interim benchmarks to measure progress in meeting water quality goals and load reduction targets.
- 9. Describe a monitoring component.

Element A: Identify causes and sources of water pollution and estimate existing pollutant loads.



- Sources of impairment are identified and described
- Specific sources of impairment are geographically identified (mapped)
- Data sources are accurate and verifiable, and assumptions can be reasonably justified

- Clear identification of sources of impairment
- ONLY talk about sources
 of implementation you are
 going to address (BMPs &
 Load Reductions)
- Figure showing impairment sources

Element B – Expected Load Reductions (overall)



- Load reductions achieve environmental goal (e.g. TMDL allocation)
- Desired load reductions are quantified for each source of impairment identified in Element A
- Expected load reductions are estimated for each management measure identified in Element C and overall watershed.
- Data sources and/or modeling process are accurate and verifiable, assumptions can be reasonably justified

- Clear concise table that shows what load reduction will be overall and how implementation will achieve that goal
- BMPs for each pollutant source, and what load reduction will be for each BMP

Element C – Proposed Management Measures (overall)

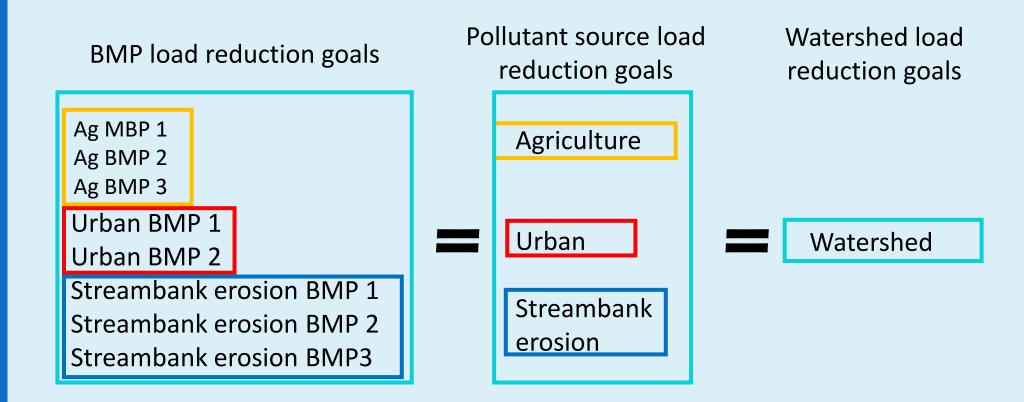


- Specific management measures are identified and rationalized.
- Proposed management measures are strategic and feasible for the watershed.
- Critical/Priority implementation areas have been identified
- The extent of expected implementation is quantified (e.g. x miles of streambank fenced, etc.)

- Only add measures that you will use, reduce excess information
- Identify priorities clearly

Load Reduction/BMP implementation framework





Watershed goals will be achieved through load reduction from pollutant sources by targeted BMP implementation.

Check that the math adds up!

Element D – Technical and Financial Needs (overall)



- Cost estimates reflect all planning and implementation costs
- Cost estimates are provided for each management measure
- All potential Federal, State,
 Local, and Private funding sources are identified
- Funding is strategically allocated activities are funded with appropriate sources (e.g. NRCS funds for BMP cost share)

PA

 Clearly identify where other funds are coming from and what they will address

Element E – Information, education, and public component (overall)



- A stakeholder outreach strategy has been developed and documented.
- All relevant stakeholders are identified and procedures for involving them are defined.
- Educational/Outreach materials and dissemination methods are identified.

- Don't just say what you "could" do but what you will do. How many times will you do X, and when?
- A strategy is not just a list of potential things you could do

Element F/G – Schedule and Milestones (overall)



- Implementation schedule includes specific dates and expected accomplishments
- Implementation schedule follows a logical sequence
- Implementation schedule covers a reasonable time frame
- Measurable milestones with expected completion dates are identified to evaluate progress
- A phased approach with interim milestones is used to ensure continuous implementation

- Add specific dates
- Add additional milestones and goals that are NOT BMP and Load reduction goals

Element H – Load Reduction Evaluation Criteria (overall)



- Proposed criteria effectively measure progress toward load reduction goal
- Criteria include both: quantitative measures of implementation progress and pollution reduction; and qualitative measures of overall program success (including public involvement and buy-in)
- Interim WQ indicator milestones are clearly identified; The indicator parameters can be different from the WQ standard violation
- An Adaptive Management approach is in place, with threshold criteria identified to trigger modifications

- Details about an Adaptive
 Management plan, not just
 state you will adapt
 (When? How? Who?)
- Need at least one qualitative and one quantitative goal

Element I – Monitoring components (overall)

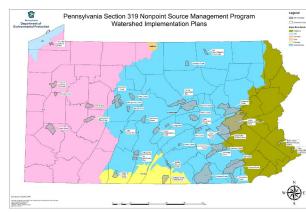


- Monitoring plan includes an appropriate number of monitoring stations
- Monitoring plan has an adequate sampling frequency
- Monitoring plan will effectively measure evaluation criteria identified in Element 8

- Have a map of monitoring sites
- Connect monitoring to quantitative milestones
- If using established protocol, put in link, but also summarize in WIP.

What's in a Watershed-based Plan? Pennsylvania Specifics

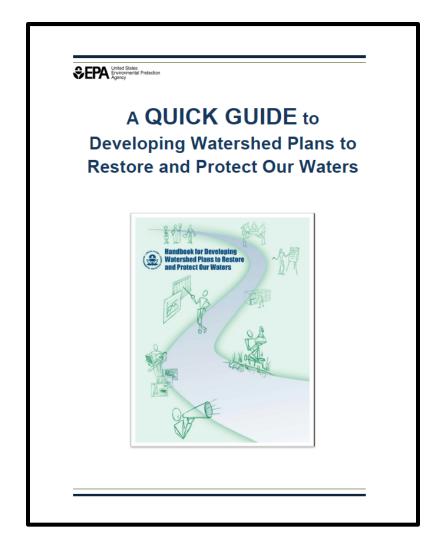
- Be Clear and Concise
- All information in body of document
- Don't forget interim goals (quantitative and qualitative)
- Goals should be feasible & attainable
- Education and outreach PLAN, not just a list
- WBP needs to be clear for anyone looking to implement
- Get EPA involved early and often!



Where can you learn more?

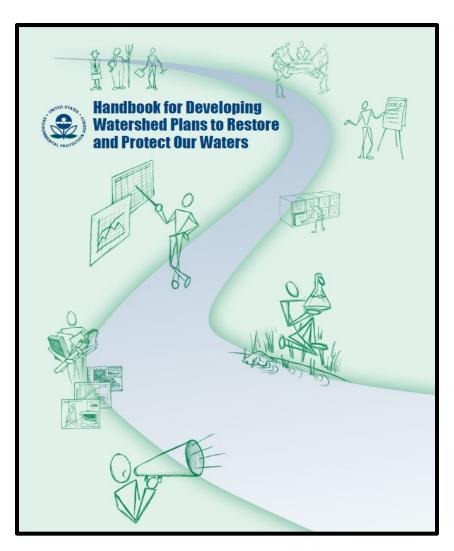


USEPA's A QUICK GUIDE to Developing Watershed Plans to Restore and Protect Our Waters





USEPA's Handbook for Developing Watershed Plans to Restore and Protect Our Waters





For more information or questions contact

- Steve Hohman (WIPs & QAPPs)
 215-814-2739; Hohman.Steven@epa.gov
- Angela Padeletti (State Coordinator)
 215-814-2314; Padeletti.Angela@epa.gov
- Mike Hoffmann (Regional Coordinator)
 7215-814-2716; Hoffman.Michael@epa.gov

For training purposes only
This presentation is not intended and should not be interpreted as, representing the position or policy of EPA on matters discussed.

Why Write a Watershed-based Plan?



A watershed-based plan can help:

- Conserve prime farmland.
- Prevent and reduce flood damage.
- Protect and enhance natural resources and recreational opportunities.
- Achieve Total Maximum Daily Loads (TMDLs).
- Support sustainable communities and economic growth.
- Target limited financial resources.
- Identify and enhance funding opportunities (i.e., 319, ICWI).

