Climate Change in NPDES Permitting

Heather Huddle

2024 Stormwater Roundtable

October 22, 2024

Agenda

- Training and Resources for implementing climate change into a NPDES permit
- Integrated Planning
  - Permitting Authority's Assistance
- Long Term Stormwater Planning
  - New Materials

Training & Resources

- EPA's resources
  - Creating Resilient Water Utilities (CRWU)'s Climate Resilience Evaluation and Awareness Tool (CREAT)**
  - Locating and Selecting Scenarios Online (LASSO)*
  - Low Flow Statistics Tools Handbook*
  - Thermal Discharges in NPDES Permits: Overview of Resources and Tools*
  - Climate Vulnerability Assessments*

* Training currently being developed and will be available

* Training available

* Technical Assistance available

EPA's Integrated Planning Technical Resources

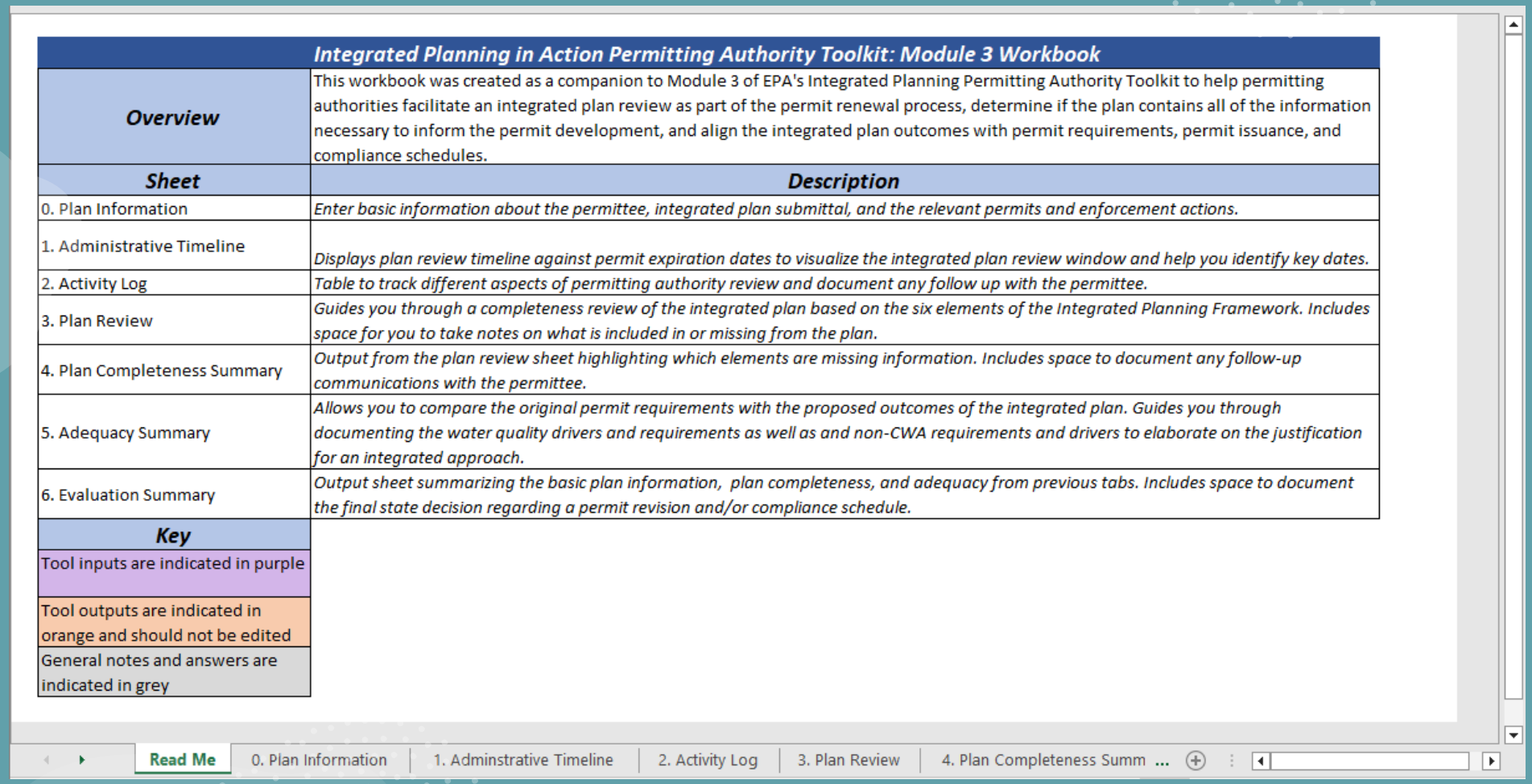
Information Resources:

- Integrated Planning Storymap
- Long-term stormwater planning
- Permitting Authority Toolkit
- Fact Sheet Series to develop an integrated plan
- 2012 Integrated Planning Framework
- Sustainability planning guidance
- 2021 Report to Congress Financial capability assessment guidance

Recorded Webinars:

- The Straight Scoop on Integrated Planning
- Introducing EPA's Integrated Planning Element Four
- Integrated Planning Peer-to-Peer Exchange for Municipalities

Incorporating Workbook



Integrated Planning in Action Permitting Authority Toolkit: Module 3 Workbook	
Overview	This workbook was created as a companion to Module 3 of EPA's Integrated Planning Permitting Authority Toolkit to help permitting authorities facilitate an integrated plan review as part of the permit renewal process, determine if the plan contains all of the information necessary to inform the permit development, and align the integrated plan outcomes with permit requirements, permit issuance, and compliance schedules.
Sheet	**Description**
0. Plan Information	*Enter basic information about the permittee, integrated plan submittal, and the relevant permits and enforcement actions.*
1. Administrative Timeline	*Displays plan review timeline against permit expiration dates to visualize the integrated plan review window and help you identify key dates.*
2. Activity Log	*Table to track different aspects of permitting authority review and document any follow up with the permittee.*
3. Plan Review	*Guides you through a completeness review of the integrated plan based on the six elements of the Integrated Planning Framework. Includes space for you to take notes on what is included in or missing from the plan.*
4. Plan Completeness Summary	*Output from the plan review sheet highlighting which elements are missing information. Includes space to document any follow-up communications with the permittee.*
5. Adequacy Summary	*Allows you to compare the original permit requirements with the proposed outcomes of the integrated plan. Guides you through documenting the water quality drivers and requirements as well as and non-CWA requirements and drivers to elaborate on the justification for an integrated approach.*
6. Evaluation Summary	*Output sheet summarizing the basic plan information, plan completeness, and adequacy from previous tabs. Includes space to document the final state decision regarding a permit revision and/or compliance schedule.*
Key	
Tool inputs are indicated in purple	
Tool outputs are indicated in orange and should not be edited	
General notes and answers are indicated in grey	

Read Me | 0. Plan Information | 1. Adminstrative Timeline | 2. Activity Log | 3. Plan Review | 4. Plan Completeness Summ ...

- To watch the Integrated Planning Toolkit Incorporating Module 3 Workbook Instructional Video, go to https://www.youtube.com/watch?v=hMS2OuOxfUk

Integrated Planning in Action Fact Sheet Series

To view all fact sheets, go to https://www.epa.gov/npdes/integrated-planning-implementation-documents#factsheets

- The Basics
- Getting Started
- Funding the Development of an Integrated Plan
- Funding Integrated Plan Implementation
- Determining Requirements and Drivers
- Adapting for Success

Kentucky Energy and Environmental Cabinet (KEEC) Permitting Authority Toolkit Trainings

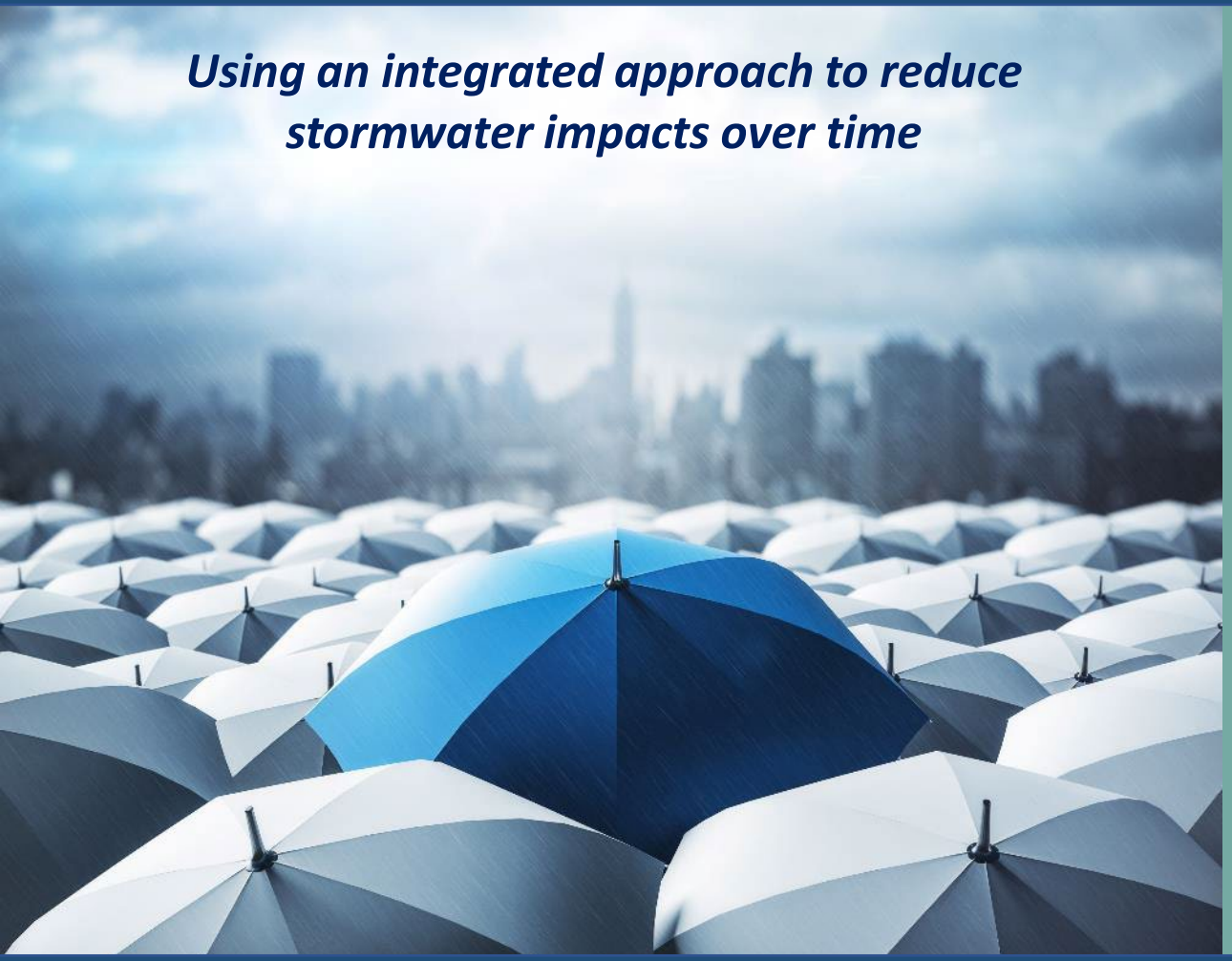
- Target Audience is permit writers
- 4 – 2 hr sessions:
  - Introduction to IP and the Permittee Landscape
  - Supporting Permittees in IP Development including CSOs
  - Reviewing an Integrated Plan and Anticipated Outcomes
  - Evaluating Modeling and Estimating Methods

Integrated Planning Technical Assistance

- Two state technical assistance trainings are available for FY 2025

Long-Term Stormwater Planning

Part of the Suite of Integrated Planning Resources



Stormwater managers across the country oversee stormwater infrastructure to protect people and property, reduce flooding and pollution, and enhance local economies. Integrated planning can help communities achieve these objectives.

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New Materials

www.epa.gov/npdes/stormwater-planning

Overarching Documents

- Final Guide, including lessons learned
- 10 Editable Worksheets
- Site Suitability Analysis Document (Coming soon)

Site Suitability Analyses

- Burlington, Iowa
- Hattiesburg, Mississippi
- Rochester, New Hampshire

Long-Term Stormwater Plans

- Hattiesburg, Mississippi
- Rochester, New Hampshire
- Santa Fe, New Mexico

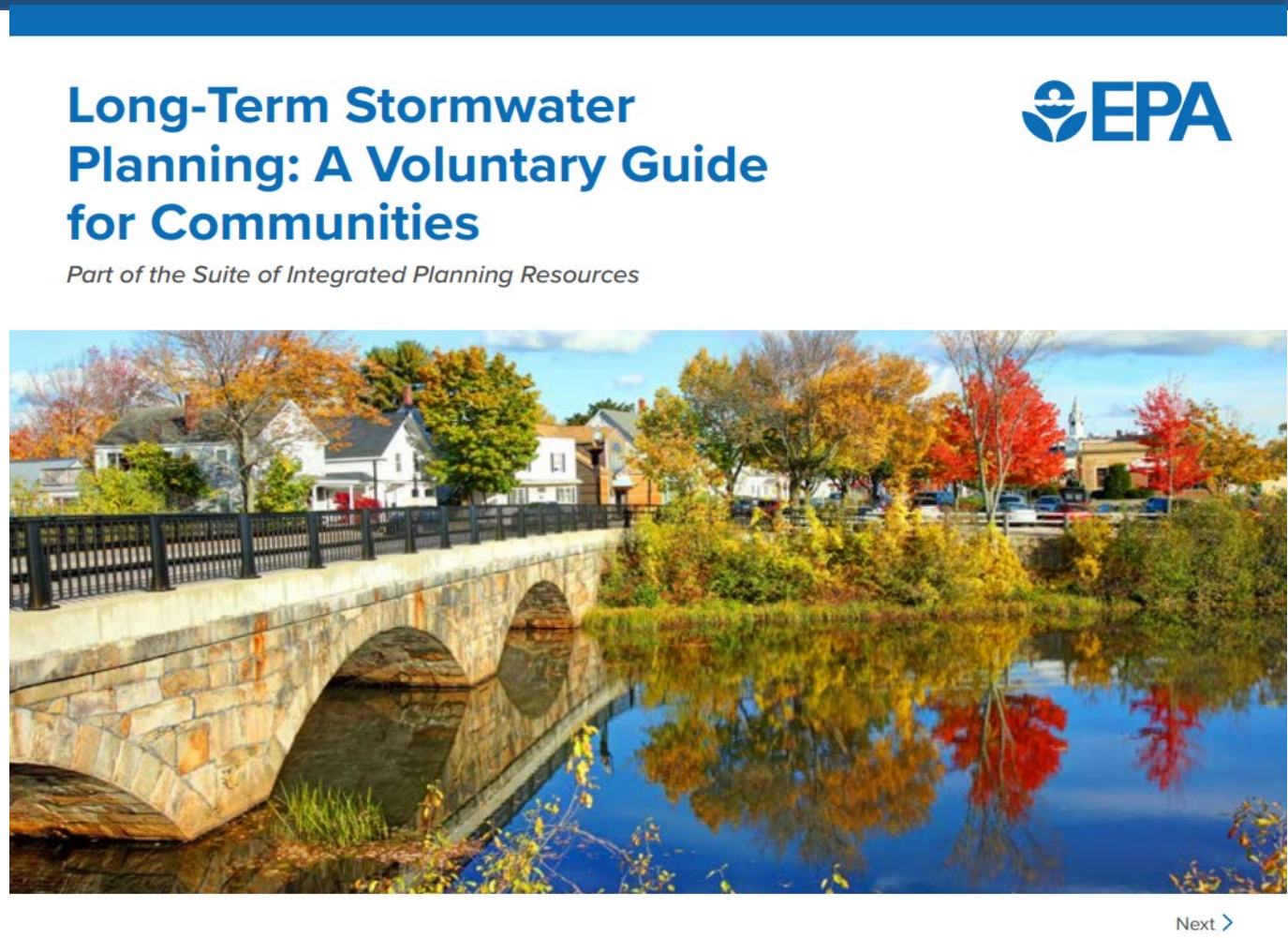
Santa Fe, New Mexico Documents

- Incorporating Green Infrastructure into Roadway Projects in Santa Fe
- Government Funding Opportunities for Stormwater Management in Santa Fe

Final Guide

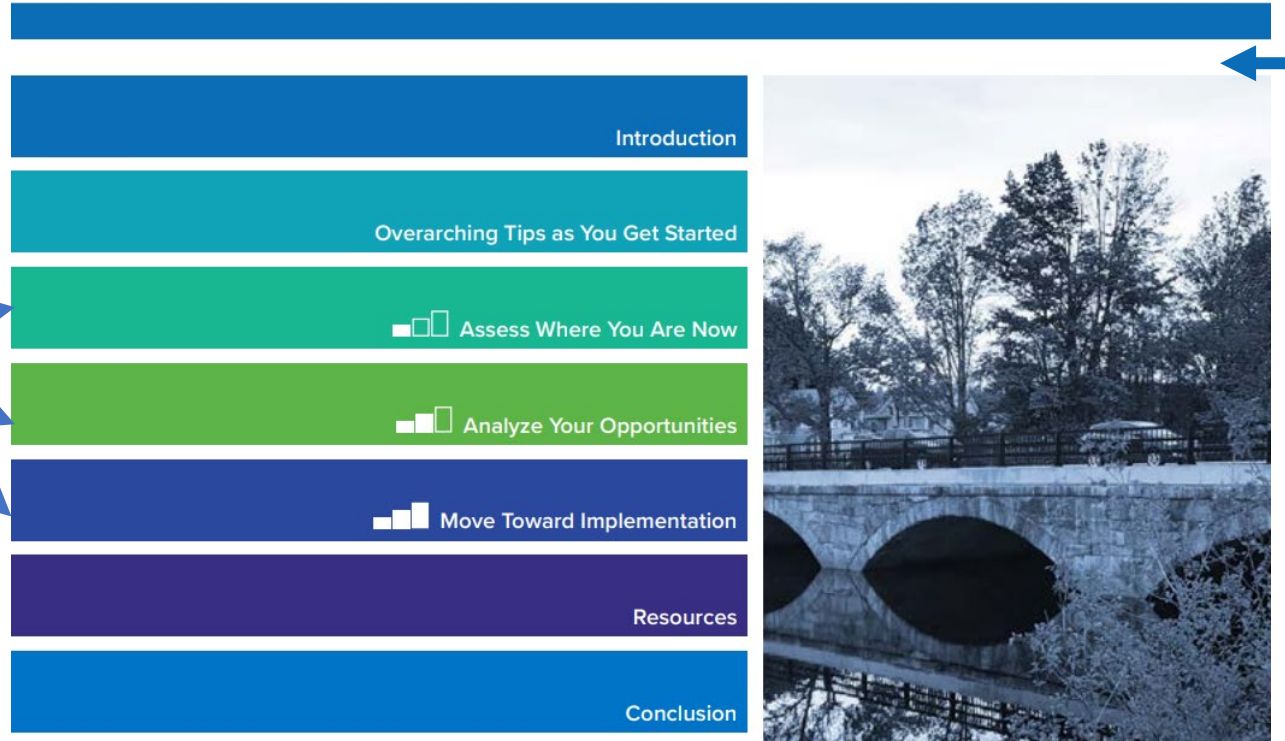
Available directly at: www.epa.gov/system/files/documents/2024-01/long-term-stormwater-planning-guide-communities.pdf

- Applies the integrated planning approach to stormwater assets, concepts, and resources.
- Emphasizes stakeholder input and involvement from community members most affected by stormwater.
- Highlights how to incorporate green infrastructure into community stormwater management to support local jobs, improve community assets, and strengthen climate resilience.
- Strategically addresses stormwater needs, even if not developing an integrated plan or do not have stormwater systems regulated under the Clean Water Act.



Final Guide (Cont'd)

Organized under simple sections



Formatted in landscape to easily fit on screen

Easy to navigate using linked jumps throughout

Editable Worksheets

Element 6: Adapt for Success

- Worksheet 7: Strategy Implementation Summary
- Worksheet 10 : Strategy Status Evaluation

Element 1: Describe Relevant Requirements and Drivers

- Worksheet 1: Identify Stakeholders
- Worksheet 2: Identify Drivers and Issues
- Worksheet 3: Identify Goals

Element 5: Measure Performance

- Worksheet 10 : Strategy Status Evaluation

Element 2: Characterize Existing Systems

- Worksheet 4: Mapping and Data Management
- Worksheet 5: Asset Conditions
- Worksheet 6: Capital Improvements

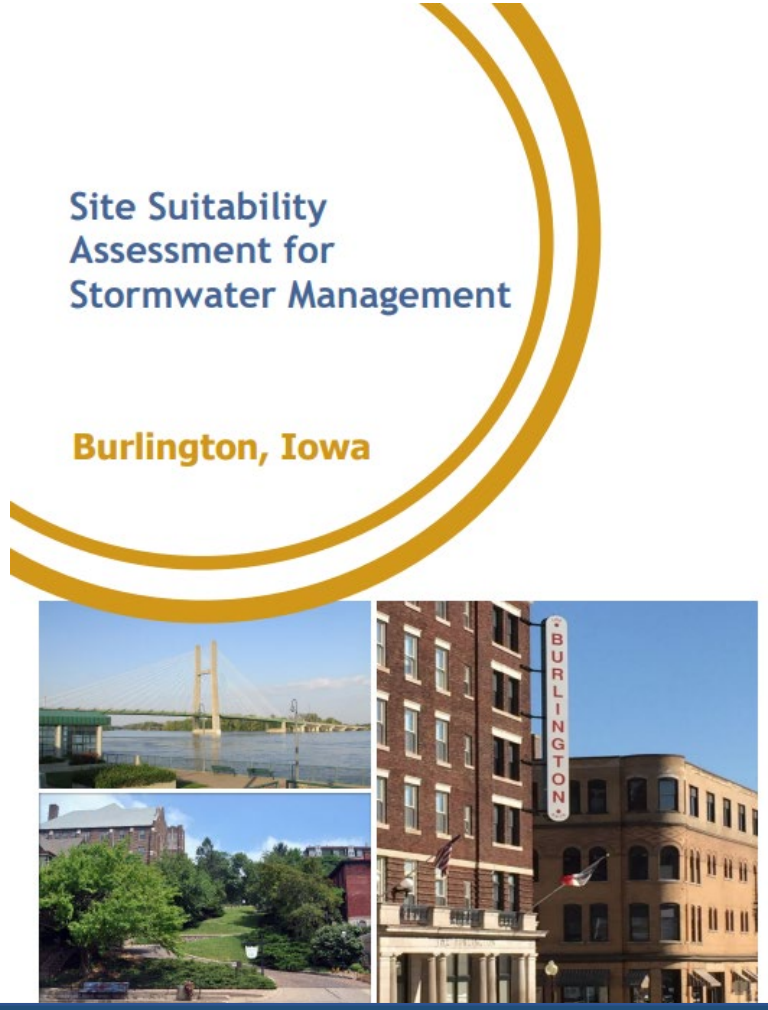
Element 4: Develop, Evaluate, and Select Preferred Alternatives

- Worksheet 7: Strategy Implementation Summary
- Worksheet 8: Strategy Prioritization
- Worksheet 9: Financial Needs

Element 3: Make Connections with Stakeholders

- Worksheet 1: Identify Stakeholders

Site Suitability Analyses for Green Infrastructure



Guides users through a geographic information system (GIS) based analysis to help identify opportunities to improve stormwater management by implementing green infrastructure.

These documents serve two purposes:

- It **provides a methodology** for using GIS to assess the suitability of sites.
- It **demonstrates the use** of this methodology, providing results based on currently available information for three communities.

Community Pilots

Topics Covered

1. Asset management
2. Stormwater infrastructure opportunities
3. Stakeholder involvement
4. Financing/funding
5. Development and redevelopment policies

Burlington, Iowa

Explored Topics 2 3

Hattiesburg, Mississippi

Explored 1 2 3 4

Rochester, New Hampshire

Explored Topics 1 2 3 4 5

Santa Fe, New Mexico

Explored Topics 1 2 3 4 5

Questions?

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