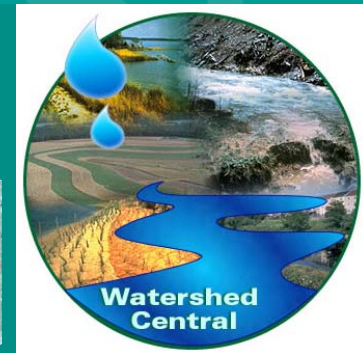


# Watershed Central

*Providing access to data, the right tools for the job, & facilitating collaboration among watershed management partners*

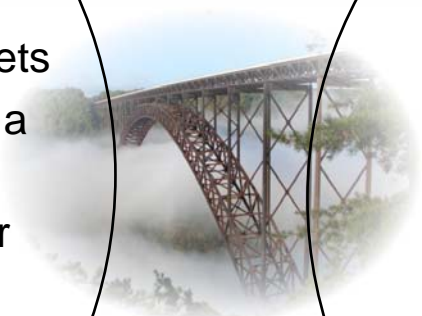


*Beth Jackson, OEI*  
*Joe R. Williams, NRMRL/GWERD*

*Kim Balassiano, OEI*  
*Stuart Lehman, Office of Water*

### **What Watershed Managers Want:**

- Summarized, complete data sets
- Assessments that are clear to a wide variety of stakeholders
- Known levels of uncertainty for decision-making
- Easy-to-use, inexpensive tools
- Political and economic support



### **What Technology and Science can Provide:**

- Web access to models and monitoring tools
- Collaboration tools
- Satellite and aerial data
- Mapping and GIS tools
- Economic and demographic predictive tools
- Information sharing and statistical tools

# The Concept for Watershed Central (Based on the Watershed Planning steps)

## Watershed Central

an Integrated Web-Based Framework for  
Watershed Assessment and Management



## *How will Watershed Central change the way we protect and restore the environment?*

- Greatly enhance the ability of managers (local, state, and federal) to find and use the tools they need to assess and manage watersheds through the use of a **web-based, centralized location**.
- Present decision support tools, models, data, and other resources in a coordinated, integrated manner through a **framework** for more comprehensively managing water resources.
- Provide a mechanism for **collaboration between watershed partners**
- Provide a **feedback mechanism** for enhancement of science-based resources, and identification of resources yet needed
- Provide a quantitative means of assessing the application of science-based resources through a one-stop access to **vetted, high-value tools** (not every possible water management tool).

# Meeting Local Needs



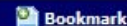
## Atlanta, Georgia January 8-10, 2007

USEPA "Watershed Central" Workshop  
Options for Organizing EPA Information & Tools for  
Watershed Management





## Watershed Central



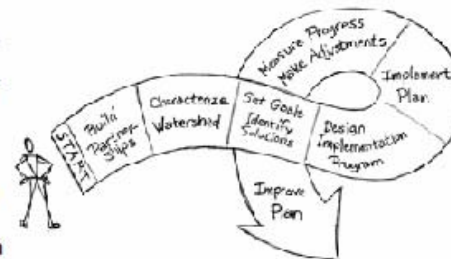
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You are here: [EPA Home](#) » [Water](#) » [Wetlands, Oceans, & Watersheds](#) » [Watersheds](#) » Watershed Central

Welcome to Watershed Central - your home for help in watershed management and planning. The Watershed Central website is designed to assist state, local and voluntary watershed management entities with ensuring successful communication, partnership opportunities, and information exchange.



- [Basic Information](#) - Learn more about the history of the Watershed Central website and why it was developed.
- [Frequent Questions](#) - Find answers to some of your basic questions about this site.
- [Watershed Management Process](#) - The watershed management process uses a series of cooperative, iterative steps to characterize existing conditions, identify and prioritize problems, define management objectives, and develop and implement protection or remediation strategies as necessary. This framework is elaborated here.
- [Your Watershed](#) - Come use this assemblage of tools to find partners and see your watershed in a map with other data. There are links here to our Watershed Central wiki, Surf Your Watershed, Adopt Your Watershed, Enviromapper for Water, and an events calendar for watershed managers.
- [Models, Tools and Databases](#) - Here is a key list of models, tools, and databases popularly used in watershed management. Eventually you will see ratings associated with these tools, as ratings are accumulated via your voting in our wiki.
- [Watershed Projects & Groups](#) - There is so much going on around the country in the name of clean water and environmental health. So many organizations are active and completing projects and we have much to learn from them. Follow this link to success stories, case studies, the Watershed Central wiki, and more.
- [Guidance, Rules & Regs](#) - This page provides links to guidance, rules and regulations as they pertain to watershed management.
- [Funding Sources](#) - This page provides links to guidance, rules and regulations as they pertain to watershed management.





Watershed Central | US EPA - Windows Internet Explorer  
http://safewater.tetrattech-ffx.com/wc/process.htm  
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### Watershed Central

Basic Information

Frequent Questions

Calendar of Events

Your Watershed

Watershed

Management Process

- [Build Partnerships](#)

- [Characterize the Watershed](#)

- [Set Goals and Identify Solutions](#)

- [Design an Implementation Program](#)

- [Develop Watershed Plan Outline](#)

- [Implement the Watershed Plan](#)

- [Measure Progress and Make Adjustments](#)

Training

Watershed Projects & Groups

## Watershed Management Process

This section of the Watershed Management website is designed to walk you through each step of the watershed planning and implementation process. You may wish to use this information after you have used the [Watershed Plan Builder](#) to create a customized watershed plan outline.

Effective watershed management includes both planning and implementation components. While the development of a watershed plan is a critical step in the process, the plan must be successfully implemented before results can be seen. The watershed management process uses a series of cooperative, iterative steps to characterize existing conditions, identify and prioritize problems, define management objectives, and develop and implement protection or remediation strategies as necessary. To get more information on the planning and implementation process see the [Handbook for Developing Watershed Plans to Restore and Protect Our Waters](#).

Move through each step of the watershed management process by clicking on the steps listed in the box on the right side of the screen. Each topic is divided into subsections that can be viewed by clicking on the appropriate heading in the right hand topics box. The topics box will show the name of the section you are currently working in.

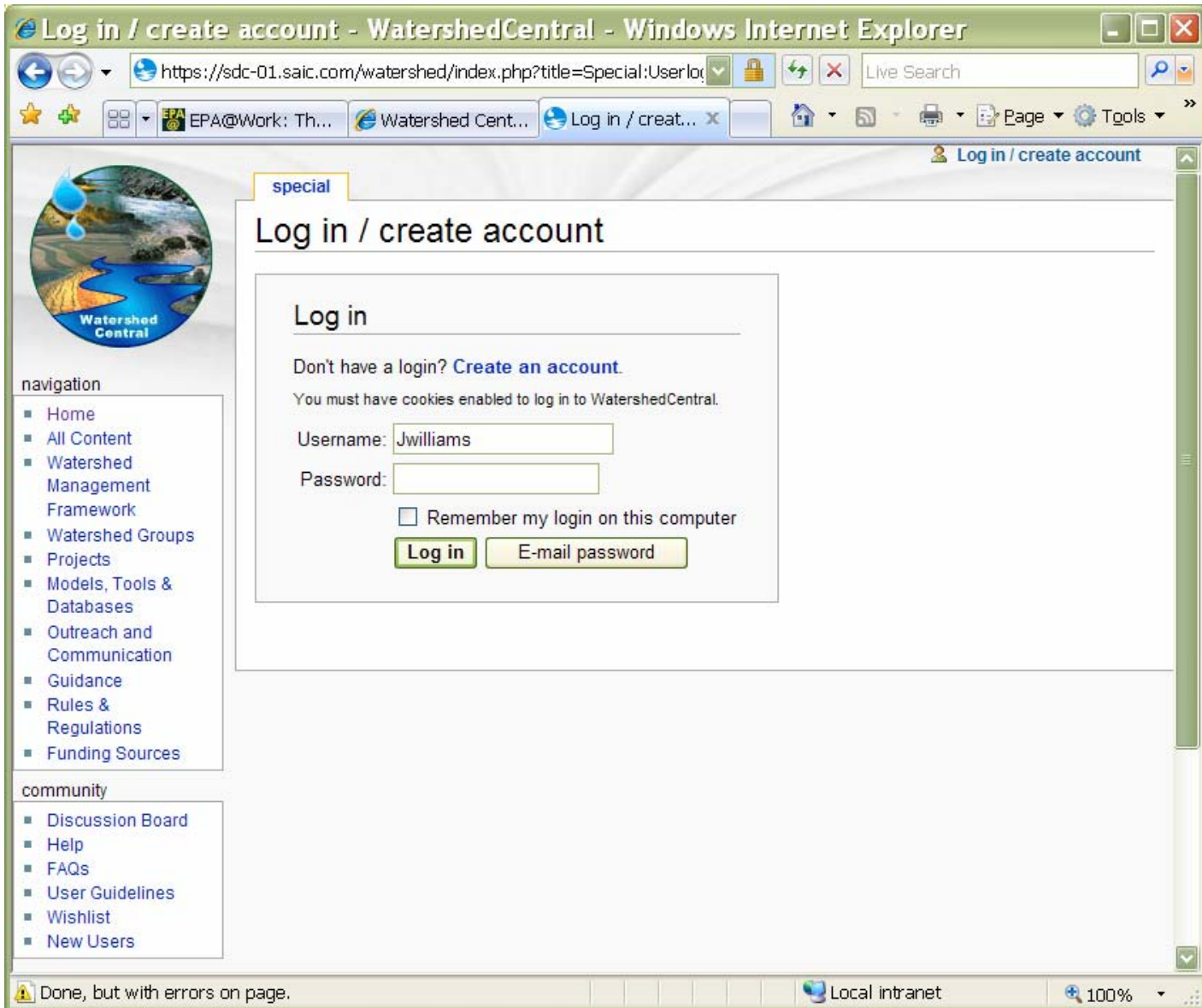
Bookmark this page so you can return to this section of the Watershed Management site as often as you need to as you progress in developing and implementing your watershed plan.

### Steps

- [Build Partnerships](#)
- [Characterize the Watershed](#)
- [Set Goals and Identify Solutions](#)
- [Design an Implementation Program](#)
- [Develop Watershed Plan Outline](#)
- [Implement the Watershed Plan](#)
- [Measure Progress and Make Adjustments](#)

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Last updated on Wednesday, October 15th, 2008.  
<http://safewater.tetrattech-ffx.com/wc/process.htm>  
[Print As-Is](#)



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https://sdc-01.saic.com/watershed/index.php?title=Special:Userlog

special

## Log in / create account

### Log in

Don't have a login? [Create an account.](#)

You must have cookies enabled to log in to WatershedCentral.

Username:

Password:

Remember my login on this computer

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community

- Discussion Board
- Help
- FAQs
- User Guidelines
- Wishlist
- New Users

Done, but with errors on page. Local intranet 100%

Main Page - WatershedCentral - Windows Internet Explorer provided by EPA

http://sdc-01.saic.com/watershed/index.php/Main\_Page


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Main Page - WatershedCentral

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article discussion edit history move watch

## Main Page



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search

### Welcome to the Watershed Central Wiki!

Why should I participate in the Watershed Central wiki?

TO:

- Share your best practices, case studies and lessons learned;
- See what other watershed organizations are up to & learn from them;
- Identify partners in your watershed area;
- Rate and comment on watershed management tools or report on new tools;
- View a map with water monitoring stations, land use types, watershed boundaries, high-resolution aerial photography, and more for your watershed;
- Publish your watershed management plan for others to learn from;
- Create a page about your organization, add a map, and share it amongst members of your group; and
- Build the community knowledge base for more effective watershed management and implementation!

Thanks for helping us build this resource!

### Watershed Question of the Month

This is where we want to hear from you. Help us generate content for our wiki by taking the time to answer our **Watershed Question of the Month!**

**How have you split your organization's watershed management responsibilities with fed/state/local government?**

Share your answer and/or contribute to the discussion!

### Map Your Watershed

Zoom to your local watershed here on this Google map! It also features geotags - each

### Getting started

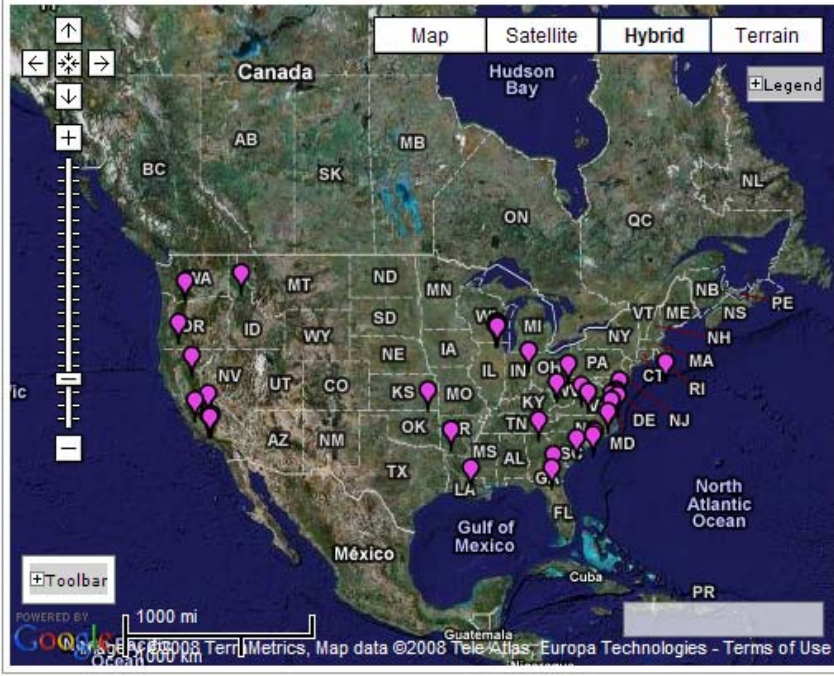
- How Do I...? - quick wiki tutorials on a growing list of subjects
- WatershedCentral:About - learn who designed this wiki and why
- User Guidelines
- Watershed Central Wiki:Wishlist - suggest items to add to Watershed Central
- Got a Watershed Question? - use this page for posting questions to the entire WC community - such as where do I find certain data, experiences applying for certain funding, etc...

### Calendar of Events

November 2008							December 2008							January 2009					
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	
					1	2	1	2	3	4	5	6	7					1	2
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30	

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Click on your local watershed here on this Google map. It also features a Google map pushpin represents a link to a wiki article helping to link you to potential partners in your watershed. You can also view impaired waters, monitoring stations and more, as well as link to EPA's ArcGIS Server [EnviroMapper for Water](#) (EMR) map application featuring many of the Agency's water-related geospatial data (just click on the small graticule floating over the lower left-hand corner of the mapper). [How to Add a Pushpin in the Map Below to Your Wiki Article!](#)



**Top 10 Active Users**

User	Revision Count	Content Length
Meloroj	1807	69853

**Top Categories**

This is a tag cloud: a list of tags where size reflects popularity.

[Basic Facts & Information](#)   [CFR](#)   [Chemicals](#)   [Data](#)  
[Provider](#)   [Environmental Protection Agency](#)   [Laws & Legislation](#)  
[Mapped Projects](#)   **Tools**   [Tools for Setting Goals](#)  
[Identifying Solutions](#)   **Watershed Characterization Tool**  
[Watershed Group](#)   **Watershed Management Framework**

**Top 10 Rated Pages**

Page Title	Average Rating
<a href="#">Causal Analysis / Diagnosis Decision Information System (CADDIS)</a>	5.0
<a href="#">EPA Section 319 Nonpoint Source Success Stories</a>	5.0
<a href="#">Water Pollution Control Montana State Fund</a>	5.0
<a href="#">EPA Rapid Bioassessment Protocols</a>	5.0
<a href="#">EPA Adopt your Watershed</a>	5.0
<a href="#">Maryland Biological Stream Survey (MBSS)</a>	5.0
<a href="#">BATHTUB</a>	5.0
<a href="#">GIS-Based Phosphorus Loading Model (GISPLM)</a>	5.0
<a href="#">USACE CorpsMap</a>	5.0
<a href="#">Montana Watershed Approach to Source Water Protection</a>	5.0

**Latest Additions/Updates**

Page Title	Added
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Category:Tools - WatershedCentral - Windows Internet Explorer

https://sdc-01.saic.com/watershed/index.php/Category:Tools

US EPA Handbook for Developin... Watershed Central | US... Category:Tools - Wa... x

Jwilliams my talk my preferences my watchlist my contributions log out

category discussion edit history unwatch

## Category:Tools

There are many tools available to aid watershed planners and managers. Registered users are welcome to add new tools, add comments, suggestions, & feature requests to existing tools, and rate the usefulness of the tools. When adding new tools, consider the following questions as criteria for tools and resources to add: 1) Does it address a recurring need identified by watershed management practitioners; 2) Does it fill an important gap with regard to watershed management or watershed science; 3) Is it a standard method, publication, or tool of known good quality that substantially furthers the goals of human health, clean water, and ecological integrity; and 4) Does it deal with an emerging issues hindering effective watershed management. Tools and resources which should not be included are: 1) Those tools, resources and information that are outdated (including old statutes or programs, technology that has clearly been surpassed by new methods, statutes, etc.) and 2) Those tools that represent brand-name technology, proprietary tools or resources, or for-profit consultancies.


Take a look at the [Watershed Central FAQ](#) for guidance on how to **add a new tool** to the wiki.

Create an Article to this category

### Subcategories

There are 21 subcategories to this category.

<p><b>D</b></p> <ul style="list-style-type: none"> <li>▪ <a href="#">[+] Category:Data</a></li> <li>▪ <a href="#">[+] Category:Data Provider</a></li> </ul> <p><b>H</b></p> <ul style="list-style-type: none"> <li>▪ <a href="#">[+] Category:Hydrodynamic Models</a></li> </ul> <p><b>M</b></p> <ul style="list-style-type: none"> <li>▪ <a href="#">[+] Category:Mapping tools</a></li> <li>▪ <a href="#">[+] Category:Midwest</a></li> <li>▪ <a href="#">[+] Category:Models</a></li> </ul> <p><b>P</b></p> <ul style="list-style-type: none"> <li>▪ <a href="#">[+] Category:Portal</a></li> </ul>	<p><b>T</b></p> <ul style="list-style-type: none"> <li>▪ <a href="#">[+] Category:Tools by state</a></li> <li>▪ <a href="#">[+] Category:Tools for Assessing Future Conditions or Threats</a></li> <li>▪ <a href="#">[+] Category:Tools for California</a></li> <li>▪ <a href="#">[+] Category:Tools for Conducting Information/Education Activities</a></li> <li>▪ <a href="#">[+] Category:Tools for Designing an Implementation Program</a></li> <li>▪ <a href="#">[+] Category:Tools for Developing Watershed Plans</a></li> <li>▪ <a href="#">[+] Category:Tools for Measuring Progress</a></li> <li>▪ <a href="#">[+] Category:Tools for Setting Goals and Identifying Solutions</a></li> </ul>	<p><b>T cont.</b></p> <ul style="list-style-type: none"> <li>▪ <a href="#">[+] Category:Tools to Estimate Pollutant Loads</a></li> <li>▪ <a href="#">[+] Category:Tools to Identify Causes and Sources of Pollution</a></li> <li>▪ <a href="#">[+] Category:Training</a></li> </ul> <p><b>W</b></p> <ul style="list-style-type: none"> <li>▪ <a href="#">[+] Category:Water Quality Models</a></li> <li>▪ <a href="#">[+] Category:Watershed Characterization Tools</a></li> <li>▪ <a href="#">[+] Category:Watershed Models</a></li> </ul>
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Category:Tools - WatershedCentral - Windows Internet Explorer

https://sdc-01.saic.com/watershed/index.php/Category:Tools

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## Articles in category "Tools"

There are 147 articles in this category.

<p><b>A</b></p> <ul style="list-style-type: none"> <li>▪ AGNPS</li> <li>▪ AVGWLF</li> <li>▪ American Forests: CITYgreen</li> <li>▪ AnnAGNPS Pollutant Loading Model</li> <li>▪ Automated Geospatial Watershed Assessment Tool (AGWA)</li> </ul> <p><b>B</b></p> <ul style="list-style-type: none"> <li>▪ BASINS</li> <li>▪ BATHTUB</li> </ul> <p><b>C</b></p> <ul style="list-style-type: none"> <li>▪ CEAP Program NRCS</li> <li>▪ California Environmental Data Exchange Network (CEDEN)</li> <li>▪ Canadian Community Monitoring Tools and Science Hub</li> <li>▪ Canadian Geospatial Data Portal</li> <li>▪ Causal Analysis / Diagnosis Decision Information System (CADDIS)</li> <li>▪ Center for Watershed Protection</li> </ul> <p><b>D</b></p> <ul style="list-style-type: none"> <li>▪ DMSTA: Dynamic Model for Stormwater Treatment Areas</li> <li>▪ DRAINMOD</li> <li>▪ Data Quality Objectives tool (DQO-PRO)</li> <li>▪ Digital Watershed</li> </ul>	<p><b>G cont.</b></p> <ul style="list-style-type: none"> <li>▪ Generalized Watershed Loading Functions and BasinSim (GWLF)</li> <li>▪ Global Earth Observation System of Systems (GEOSS)</li> <li>▪ Goddard Space Center Global Change Master Directory</li> <li>▪ Gulf of Maine Ocean Data Partnership (GoMODP)</li> <li>▪ Gulf of Mexico Regional Collaborative</li> </ul> <p><b>H</b></p> <ul style="list-style-type: none"> <li>▪ HACCP (Hazard Analysis and Critical Control Point planning) - Pillsbury roots</li> <li>▪ HSPF</li> <li>▪ Hydrogeomorphic Approach for Assessing Wetland Functions (HGM Approach)</li> </ul> <p><b>I</b></p> <ul style="list-style-type: none"> <li>▪ IDLMAS</li> <li>▪ Indicators of Hydrologic Alteration (IHA) Software</li> <li>▪ Instream Flow Incremental Methodology (IFIM)</li> <li>▪ International Stormwater Best Management Practices (BMP) Database</li> </ul> <p><b>K</b></p> <ul style="list-style-type: none"> <li>▪ Kinematic Runoff and Erosion Model (KINEROS2)</li> </ul>	<p><b>S cont.</b></p> <ul style="list-style-type: none"> <li>▪ SET (NC Spreadsheet Site Evaluation Tool)</li> <li>▪ SMARTe</li> <li>▪ STARMAP (Space-Time Aquatic Resources Modeling and Analysis Program)</li> <li>▪ STREAM Modules</li> <li>▪ Safe Drinking Water Information System (SDWIS)</li> <li>▪ Soil &amp; Water Assessment Tool (SWAT)</li> <li>▪ Source Loading and Management Model (SLAMM)</li> <li>▪ Spatially Referenced Regressions on Watershed Attributes (SPARROW)</li> <li>▪ Spreadsheet Tool for Estimating Pollutant Load (STEPL)</li> <li>▪ Surface Water Ambient Monitoring Program (SWAMP)</li> <li>▪ Sustainable Finance Web Site (EPA)</li> </ul> <p><b>T</b></p> <ul style="list-style-type: none"> <li>▪ TMDL Database</li> <li>▪ Template:Tools</li> <li>▪ The Directory of Watershed Resources</li> <li>▪ The Natural Resource Projects Inventory</li> <li>▪ The Nature Conservancy Fresh Water Assessment</li> <li>▪ The Smart Growth Leadership Institute</li> <li>▪ The USGS Surface-water quality and flow</li> </ul>
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Local intranet 100%



# Spa Creek Conservancy



*This page was created using the recommended template for case studies. If you wish to add a case study to the watershed central wiki, you should use this case study template. It's easy- just 'cut and paste' text that follows this paragraph into the new article and fill in the information (case study name, abstract text, etc..).*

```

{{Case Study|abstract=|keywords=|authors=|date=|location=|body=}}
    
```

## Abstract

[edit]

Spa Creek watershed group in Annapolis, MD monitoring water quality and working with local organizations to clean up the Creek

**Keywords:** citizen monitoring, stormwater management, habitat restoration

**Author(s):** S. Lehman / stulehman@comcast.net

**Publication Date:** March 26, 2008.

[[Spa Creek Conservancy Web Site|]] Spa Creek Conservancy(SCC) is a nonprofit watershed organization in Annapolis, Maryland working on improving stormwater management and protecting critical habitats. SCC believes that these are two keys to protecting water quality in Spa Creek. SCC started in 2004 and has monitored the creek and improved shoreline habitats since 2005. It has received funding from its 80 members, the Chesapeake Bay Trust, and the National Fish and Wildlife Foundation. In 2007, SCC worked with the City of Annapolis and private landowners to install a rain garden on Lincoln Drive. In 2008, SCC is working with local partner organizations, including St. Mary's Church/School, to improve stormwater controls in 3 other sites in the watershed. Contact: stulehman@comcast.net

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Track the most recent changes to the wiki on this page.

Below are the last **50** changes in the last **7** days, as of 15:41, 12 March 2008.

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Show new changes starting from [15:41, 12 March 2008](#)

Namespace:    Invert selection

### 12 March 2008

- [\(diff\)](#) [\(hist\)](#) .. [Tools list](#); 15:39 .. [\(+41\)](#) .. [Jsturman](#) ([Talk](#) | [contribs](#))
- [\(Upload log\)](#); 14:14 .. [Ccooper](#) ([Talk](#) | [contribs](#)) (*uploaded "Image:CCTest MBSSR1R2Public MATT.xls": Cooper Test for upload options*)
- [\(diff\)](#) [\(hist\)](#) .. [m Mattawoman Creek Monitoring Data](#); 13:59 .. [\(+26\)](#) .. [Ccooper](#) ([Talk](#) | [contribs](#)) ([→Data](#) - )
- [\(diff\)](#) [\(hist\)](#) .. [Mattawoman Creek Monitoring Data](#); 13:54 .. [\(+18\)](#) .. [Ccooper](#) ([Talk](#) | [contribs](#)) ([→Data](#) - )
- [\(diff\)](#) [\(hist\)](#) .. [HSPF](#); 13:49 .. [\(+6\)](#) .. [Ed Partington](#) ([Talk](#) | [contribs](#))
- [\(diff\)](#) [\(hist\)](#) .. [m Mattawoman Creek Monitoring Data](#); 13:45 .. [\(0\)](#) .. [Ccooper](#) ([Talk](#) | [contribs](#)) ([→Description](#) - )
- [\(diff\)](#) [\(hist\)](#) .. [BASINS](#); 13:43 .. [\(0\)](#) .. [Ed Partington](#) ([Talk](#) | [contribs](#))
- [\(diff\)](#) [\(hist\)](#) .. [BASINS](#); 13:42 .. [\(+65\)](#) .. [Ed Partington](#) ([Talk](#) | [contribs](#)) ([→Other Data Available Through the BASINS Data Download Tool](#) - )
- [\(diff\)](#) [\(hist\)](#) .. [BASINS](#); 13:40 .. [\(+5\)](#) .. [Ed Partington](#) ([Talk](#) | [contribs](#)) ([→Environmental Monitoring Data Available \(Via Download\) Through BASINS](#) - )
- [\(diff\)](#) [\(hist\)](#) .. [N National Estuaries Projects](#); 13:39 .. [\(+1,041\)](#) .. [Stulehman](#) ([Talk](#) | [contribs](#)) (*New page: {{tools|experience=none|time=none|data=guidance and case studies|support=none|software=none|cost=no cost}} <http://epa.gov/owow/estuaries/> Estuaries are places where rivers meet the sea...*)
- [\(diff\)](#) [\(hist\)](#) .. [BASINS](#); 13:37 .. [\(+61\)](#) .. [Ed Partington](#) ([Talk](#) | [contribs](#)) ([→Environmental Monitoring Data Available \(Via Download\) Through BASINS](#) - )
- [\(diff\)](#) [\(hist\)](#) .. [BASINS](#); 13:36 .. [\(+61\)](#) .. [Ed Partington](#) ([Talk](#) | [contribs](#)) ([→Spatially Distributed Data Available \(Via Download\) Through BASINS](#) - )
- [\(diff\)](#) [\(hist\)](#) .. [BASINS](#); 13:33 .. [\(-4\)](#) .. [Ed Partington](#) ([Talk](#) | [contribs](#))
- [\(diff\)](#) [\(hist\)](#) .. [BASINS](#); 13:30 .. [\(-59\)](#) .. [Ed Partington](#) ([Talk](#) | [contribs](#)) ([→Spatially Distributed Data Available \(Via Download\) Through BASINS](#) - )
- [\(diff\)](#) [\(hist\)](#) .. [BASINS](#); 13:27 .. [\(+63\)](#) .. [Ed Partington](#) ([Talk](#) | [contribs](#)) ([→Spatially Distributed Data Available \(Via Download\) Through BASINS](#) - )

### 11 March 2008

- [\(diff\)](#) [\(hist\)](#) .. [N IDLMAS](#); 23:17 .. [\(+786\)](#) .. [Jsturman](#) ([Talk](#) | [contribs](#)) (*New page: {{tools|experience=Moderate|time=Days|data=Unknown|support=None|software=GIS|cost=Unknown}} <http://www.epa.gov/nrmrl/pubs/600r05149/600r05149diasidlams.pdf> IDLMAS*)

## *Watershed Central Steering Committee*

- Stuart Lehman (OW/OWOW/AWPD)
- Marjorie Copeland (OW/OGWDW/DWPD)
- Thomas Dabolt (OW/OAA/IO)
- Tracy Kerchkof (OW/OWOW/AWPD)
  
- Christine McKay (Reg 4/WTMD)
  
- Joe Williams (ORD/NRMRL)
- Curtis Cooper (ORD/NRMRL)
  
- Elizabeth Jackson (OEI/OIAA/EAD)
- Kim Balassiano (OEI/OIAA/IAD)