2.2 Create a Watershed Management Plan

10 Points **20 Points** **30 Points**

Action Updates

This action has been revised for the **2019 certification cycle**. A version of this action from the prior program year is available for comparison. Edits are highlighted in yellow.

Objective

Improve the health of your watershed.

What to Do

Collaborate within your community or take a regional approach by collaborating with regional partners and local watershed groups to create a Watershed Management Plan.

The more you do, the more points you earn.

Watershed Management Plan (Up to 30 points)

1. Inventory **(10 points)**

   All elements must be completed to receive credit.

   a. Conduct a Natural Resources Inventory for a watershed (for more information on natural resources inventories, see Sustainable CT action 2.5 Create a Natural Resource and Wildlife Inventory). A watershed is the area of land that drains or sheds water into a specific receiving waterbody, such as a lake or a river. As rainwater or melted snow runs downhill in the watershed, it collects and transports sediment and other materials and deposits them into the receiving waterbody. All waterbodies are part of a watershed.

   Submit: Your completed Natural Resources Inventory.

   b. Map and identify critical watershed resource areas including: aquifers, riparian corridors, wetlands, vernal pools and headwaters.

   Submit: A map depicting all aquifers, riparian corridors, wetlands, vernal pools and headwaters.

   c. Map land uses and possible locations where pollutant loads may enter the watershed. Include estimates of pollutant loads according to area and type of land use, using formulas available from various sources (e.g. US Environmental Protection Agency, CT Department of Energy and Environmental Protection, Conservation Districts). Use information that already exists in total maximum daily loads (TMDL) or watershed-wide management plans developed by watershed organizations.

   Submit: A map depicting land uses and possible locations where pollutant loads may enter the watershed.
2. Regulation Review and Alignment with Watershed Protection Goals **(10 points)**

All elements must be completed to receive credit.

a. Identify your watershed protection goals.

b. Review existing zoning and subdivision regulations for alignment with watershed protection goals.

c. Modify and adopt complementary regulations to promote watershed protection goals.

Submit: A list of your watershed protection goals. A summary of your regulation review, including a description of your regulations align (or do not) with your watershed protection goals. Copies of all complementary regulations edited or enacted to promote watershed protection goals.

3. Action Plan **(10 points)**

a. Based on your completed inventory and regulation review, develop a list of priority actions and projects, including restoration projects, for reaching watershed protection goals, identifying project need, anticipated project costs, timeline and work plan.

Submit: Copy of action plan. Please note, successful completion of 2.2.1 and 2.2.2 are required before you can get credit for 2.2.3.

Credit for Past Action

- **Action must have been completed within 10 years prior to application submission.**

Potential Municipal and Community Collaborators

Staff from your community's planning or public works departments, engineering, GIS, water pollution control authorities could be helpful in implementing this action.

In addition, the inland wetlands commission, planning and zoning commission, conservation commission, and watershed organizations could help implement this action.

Funding

For a complete listing of potential funding opportunities to assist with implementing Sustainable CT Actions, please visit the Sustainable CT Grants Portal, which is searchable by Action. Please also visit the Sustainable CT Resources for Certification page for opportunities for technical assistance and other supports.

- Section 319 Nonpoint Source Grant Request for Proposals
- Collins Aerospace Green Communities Grants
- Urban Act Grant Program
- Municipal Grant Program (MGP)
- CHEJ Small Grants Program
- 2019 Community Enrichment Grant Program

Resources

Toolkits, Calculators, Guidance Documents

- Aquifer Protection Area Interactive Map
- CT Department of Energy and Environmental Protection, "Watershed Based Plans and Watershed Management Plans"
- US Environmental Protection Agency, "Handbook for Developing Watershed Plans to Restore and Protect Our Waters
- US Environmental Protection Agency, "Watershed Plan Builder
- US Environmental Protection Agency, "Impaired Waters and TDMLs: Resources, Tools and Databases"

- US Environmental Protection Agency, "Nonpoint Source: Volunteer Monitoring"
- US Environmental Protection Agency, "National Aquatic Resource Surveys"
- US Environmental Protection Agency, "Tools to Assist States and Tribes to Reduce Nutrient Pollution"
- US Environmental Protection Agency, "Polluted Runoff: Nonpoint Source Pollution"
- US Environmental Protection Agency, Watershed Academy
- US Environmental Protection Agency, WATERS (Watershed Assessment, Tracking & Environmental Results System)
- US Environmental Protection Agency, EnviroAtlas

Organizations and Relevant Programs

- CT Nonpoint Education for Municipal Officials
- Connecticut Conservation Districts
- US Environmental Protection Agency, Climate Ready Estuaries
- US Environmental Protection Agency, "Healthy Watersheds Protection"
- National Estuary Program
- US Environmental Protection Agency, National Pollutant Discharge Elimination System (NPDES) Stormwater Program
- Center for Watershed Protection

Why This Matters

A watershed is the area of land that drains or sheds water into a specific receiving waterbody, such as a lake or a river. As rainwater or melted snow runs downhill in the watershed, it collects and transports sediment and other materials and deposits them into the receiving waterbody. All waterbodies are part of a watershed. Connecticut has eight major watersheds, but your town or city only needs to plan for local watersheds.

Watershed management is the practice of planning for and implementing strategies to maintain or improve the health and water quality of a watershed system. Since watersheds are, essentially, large areas of land that are the pathways for water flow in a region, there are many opportunities for pollutants to enter the system. Thus a thorough plan that includes an education component is important to protect the long-term health of the system. Watershed health is a barometer for health of the surrounding environment.

Benefits

Your community will have a water quantity and quality that is both fishable and swimmable.

You will help sustain drinking water levels for your citizens and surrounding populations.

By managing stormwater properly and minimizing point-source and non-point source pollution you will be able to sustain healthier watersheds and healthier wetlands, forests, meadows, etc. - creating healthier places for people to live, work, and play.

CT Success Stories

- **New Haven, West Haven, Bethany, Hamden, Prospect, Woodbridge:** "West River Watershed Management Plan"