

**A. CAPITAL DISTRICT REGIONAL PLANNING COMMISSION (CDRPC)**

**Table of Contents**

GIS Data Collection and Analysis ..... 12

Education/Information/Outreach ..... 13

Phase II Stormwater Protection Program..... 14

Albany Pool Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) Development..... 15

Onesquethaw-Coeymans Watershed Management Plan ..... 16

Watervliet Reservoir Watershed Protection Study ..... 17

Watershed Protection and Management Plan for Ballston Lake ..... 18

Source Water Protection: Village of Stillwater Aquifer Protection Study ..... 19

Watershed Stormwater/Erosion Control Management Program ..... 20

Source Water Protection: Groundwater/Wellhead Protection Program Phase I - Southwestern Rensselaer County Phase II - Southern Saratoga County ..... 21

**Agency Name:**

Capital District Regional Planning Commission  
One Park Place, Suite 102, Albany, N.Y. 12205  
(518) 453-0850

**Title of Project:**

GIS Data Collection and Analysis

**Time Period of Project:**

Ongoing

**Project Location:**

Albany, Rensselaer, Saratoga and Schenectady  
Counties

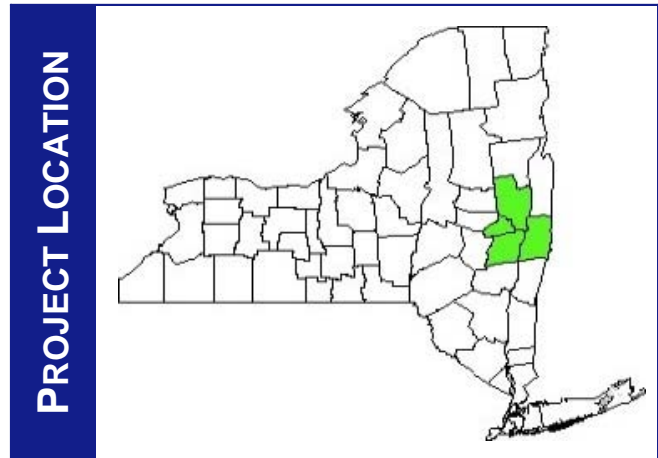
**Project Contact:**

Todd Fabozzi - Project Manager

**Project Description(s):**

CDRPC has developed and maintains an extensive regional Geographic Information System. A variety of water quality related data-sets have been compiled and/or created including: municipal boundaries, roads, hydrography, wetlands, floodplains, elevations, slopes, watersheds, soils, land-use, land-cover, ortho-photography, satellite imagery, water districts, sewer districts, new developments, and demographic attributes.

CDRPC has utilized the GIS to develop a variety of maps for water quality purposes and continues to develop and provide customized GIS digital files for watersheds throughout the Capital Region.



**Agency Name:**

Capital District Regional Planning Commission  
One Park Place, Suite 102, Albany, N.Y. 12205  
(518) 453-0850

**Title of Project:**

Education/Information/Outreach

**Time Period of Project:**

Ongoing

**Project Location:**

Albany, Rensselaer, Saratoga and Schenectady  
Counties

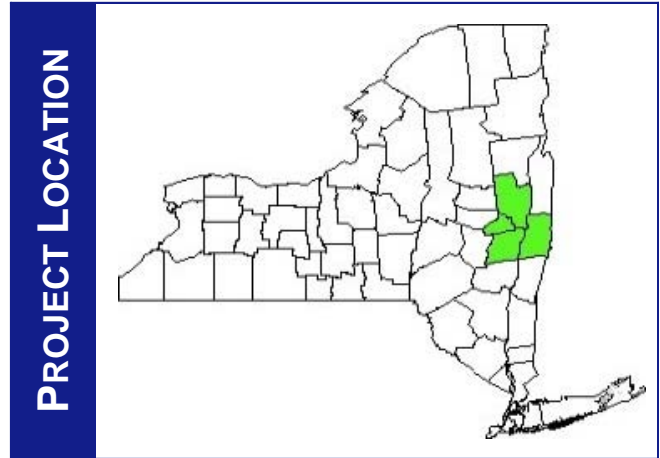
**Project Contact:**

Todd Fabozzi - Program Manager

Leif Engstrom – Program Manager

**Project Description(s):**

Staff support is provided, on a continual basis, to the County Water Quality Coordinating Committees and the communities they serve in response to specific requests and issues. Also, CDRPC staff has served, and is available to serve, in an advisory and/or technical capacity for specific watershed studies. In addition, CDRPC co-sponsors and/or participates in educational forums and workshops throughout the region on water resource related topics.



**Agency Name:**

Capital District Regional Planning Commission  
One Park Place, Suite 102, Albany, N.Y. 12205  
(518) 453-0850

**Title of Project:**

Phase II Stormwater Protection Program

**Time Period of Project:**

Ongoing through 2011

**Project Location:**

Albany, Schenectady, Rensselaer, Saratoga Counties

**Project Contact:**

Leif Engstrom – Program Manager

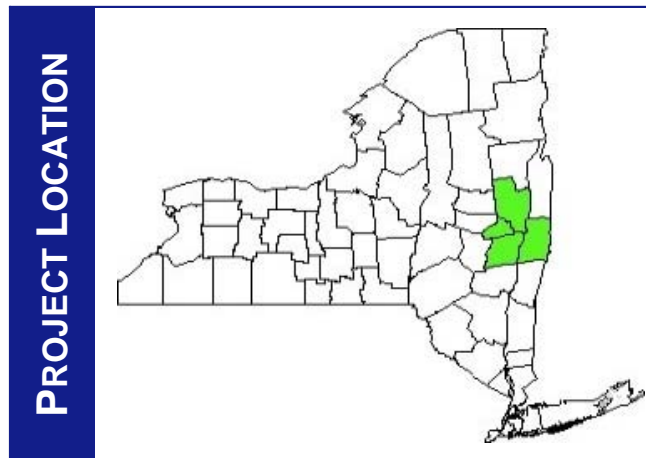
**Project Description(s):**

**Purpose/Objective:** This project places priority on assisting the New York State Department of Environmental Conservation (DEC), in conjunction with the County Water Quality Committees, in providing planning support for implementation of New York State’s MS4 Phase II Stormwater Permit Program and providing support to regulated entities in the implementation of the program’s requirements.

**Methods:** The proposed tasks are being conducted over a four-year period, with emphasis on the first two years. Assistance activities are being provided under four general categories: Outreach, Support, Program Evaluation and Compliance. The outreach and support activities are tailored to identify resources to assist the regulated entities and to help develop, implement, and improve upon their Stormwater Management Programs (SWMP). The work program also includes activities that support DEC’s effort to assure compliance with the program requirements.

**Outputs:** The outputs of this project include:

Two region-wide half-day technical training sessions with the county planning departments, and the County MS4 consortiums on the preparation of the MS4 Annual Reports. The sessions are geared toward the municipal staff and consultants



who will fill out the Year 3 and Year 4 Annual Reports.

CDRPC works with DEC and the County MS4 consortiums to identify, compile, and distribute educational materials to illustrate the importance of stormwater pollution prevention. This effort included the creation of a regional public service announcement/billboard campaign.

A regional repository (hard-copy and web-based) of water quality information tailored to the Phase II program.

CDRPC offers technical GIS expertise to regional MS4 communities to assist them in their outfall and illicit discharge mapping efforts. GIS conversion services are also offered along with file enhancements and transfers where appropriate in support of and to supplement county and local GIS activities.

CDRPC coordinates with DEC the necessary support to review and prepare written comments/evaluations of the Capital District’s regulated MS4 annual reports.

**Agency Name:**

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**Title of Project:**

Albany Pool Combined Sewer Overflow (CSO)  
Long Term Control Plan (LTCP) Development

**Time Period of Project:**

Ongoing through 2009

**Project Location:**

Albany and Rensselaer Counties

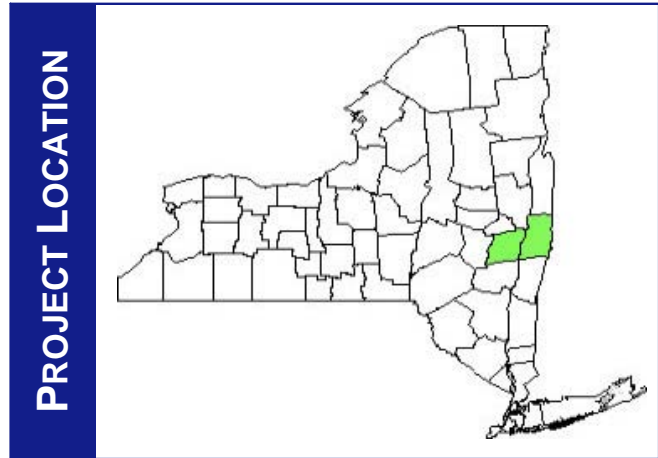
**Project Contact:**

Leif Engstrom – Program Manager

**Project Description(s):**

**Purpose/Objective:** The Capital District Regional Planning Commission has taken the lead in organizing and managing a collaborative regional consortium to coordinate the efforts of the "Albany Pool" communities to develop a comprehensive inter-municipal Phase I Long Term Control Plan (LTCP) for Combined Sewer Overflows (CSO) discharging into the Albany/Rensselaer County segment of Hudson River. The goal is to develop and implement a LTCP to make this portion of the Hudson suitable for contact recreation. The project is consistent with water quality policies and recommendations established in the Hudson River Estuary Plan and the Federal Combined Sewer Overflow Policy.

The *Albany Pool* communities are the City of Albany Water Board, the Cities of Cohoes, Rensselaer, Troy and Watervliet, and the Village of Green Island. Each community has its own CSO SPDES permit and has agreed as a condition of its Permit to create a joint LTCP by 2009. Together with the Albany and Rensselaer County Sewer Districts, these communities have created a unique consortium to address their combined sewer overflow problems. On their behalf, CDRPC has applied for and received \$2.28 million in grant money to assist the communities in preparing a Phase I LTCP.



**Methods:** The LTCP Development has been divided into two efforts. Part A included an inter-municipal agreement to engage consultants to develop a scope of work, budget, and a cost allocation agreement for Part B. Part B includes the elements outlined in the approved scope of work to complete the LTCP.

In addition to acting as project manager, CDRPC will lead the creation and implementation of the Public Participation Plan, which is required by the EPA guidelines.

**Outputs:** The outputs of this project include:

An approvable and feasible CSO LTCP for the *Albany Pool* communities.

Two cost allocation agreements, one for Part A and one for Part B.

Two intermunicipal agreements, one for each Part.

A model intermunicipal project incorporating watershed principles.

Cleaner water in the Hudson River in line with the policies set forth in the Hudson River Estuary Plan.

**Agency Name:**

Capital District Regional Planning Commission  
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**Title of Project:**

Onesquethaw-Coeymans Watershed Management Plan

**Time Period of Project:**

Ongoing through 2007

**Project Location:**

Southern Albany County

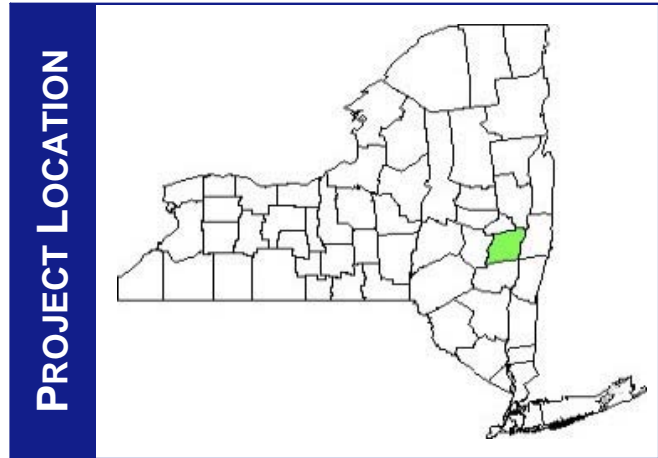
**Project Contact:**

Todd Fabozzi – Program Manager

**Project Description(s):**

The Onesquethaw/Coeymans Watershed encompasses an area of approximately 52 square miles within southern Albany County. The watershed includes portions of the towns of Berne, Bethlehem, Coeymans and New Scotland and the Village of Ravena. The streams support a population of brown trout and portions are classified as trout spawning habitat. Significant karst topography exists throughout the watershed. Lack of adequate water quality protection measures and practices leaves the stream vulnerable to water pollution impacts. The project is funded by a \$36,000 Hudson River Estuary Program Environmental Protection Fund grant, which was awarded to the Onesquethaw-Coeymans Watershed Council. The council is a non-profit organization, formed in 2001 whose mission is to protect and improve the Onesquethaw-Coeymans Creek and its watershed for the benefit of people, wildlife, and the environment. The council contracted with CDRPC to complete the “state of the watershed” assessment portion of the management plan and to help form strategies for and action plan of implementation.

**Purpose/Objective:** The purpose of this project is to develop a Watershed Management Plan for the Onesquethaw-Coeymans Watershed that consists of two components; an assessment of the "State of the Watershed" that describes existing knowledge, trends, partnerships, and significant information



gaps, and an action plan developed with the help of watershed stakeholders and municipal officials that identifies strategies to protect and restore water resources and wildlife habitat.

**Methods Employed:** Literature and document research and summary; stakeholder interviews; site visits; photography; creation of GIS data/maps including: soils, land use, land ownership, land cover, development change, wetlands, flood zones, roads, municipal boundaries, SPDES permits, topography, sewer districts, water districts, and air photos; evaluation of local and state land use regulations; recommendation of regulatory methods and best management practices; and public presentations and outreach.

**Outputs:** A watershed management plan outlining strategies to protect and restore water resources and wildlife activity within the watershed.

**Agency Name:**

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**Title of Project:**

Watervliet Reservoir Watershed Protection Study

**Time Period of Project:**

2002–2003

**Project Location:**

Watervliet Reservoir Watershed/ Albany,  
Schenectady, Schoharie Counties

**Project Contact:**

Todd Fabozzi – Program Manager

**Project Description(s):**

The Watervliet Reservoir is owned by the city of Watervliet and is the city’s sole drinking water source. The reservoir, which is located in the town of Guilderland (Albany County), is also the primary public drinking water source for the town. The Watervliet Reservoir watershed encompasses an area of approximately 115 square miles within three counties and eleven local municipalities. Development pressures and a lack of adequate water quality protection measures continue to threaten the long-term viability of the reservoir as a drinking water source.

**Purpose/Objective:** The goal of this study is to comprehensively identify the threats – existing and potential – to the Watervliet Reservoir, and to offer potential solutions, policies, and regulatory guidelines that can mitigate these threats so that the reservoir remains a quality drinking water source in the future. The following are specific objectives of the study:

Describe the relationship between land use and water quality;

Examine environmental features within the watershed;

Examine the manmade features within the watershed, including public infrastructure and land use,



as well as, describe the growth trends within the watershed;

Examine the current land use regulations within the watershed as they pertain to water quality;

Identify potential water quality issues and threats;

Offer recommendations for mitigating existing threats and for minimizing future threats to the water quality of the reservoir.

**Methods Employed:** Literature and document research; interviews; site visits; photography; creation of GIS data/maps including: soils, land use, land ownership, land cover, development change, wetlands, flood zones, roads, municipal boundaries, SPDES permits, topography, sewer districts, water districts, and air photos. Local and state land use regulations have been evaluated. In addition, public presentation/workshops have been held to present the study and to solicit local input on the issues identified and possible recommendations to be considered.

**Outputs:** (1) GIS Maps (2) Digital site/issue photos, and (3) a written, digital (PDF) report.

**Agency Name:**

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**Title of Project:**

Watershed Protection and Management Plan for  
Ballston Lake

**Time Period of Project:**

2000 – 2001

**Project Location:**

Ballston Lake Watershed – Saratoga County

**Project Contact:**

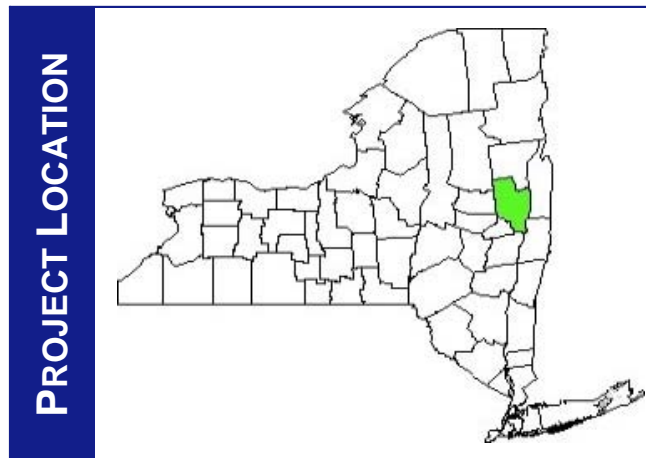
Leif Engstrom - Planner

**Project Description(s):**

**Purpose/Objective:** To assist stakeholders, including the County Water Quality Committee, in developing an action plan to protect the watershed and lake habitat and water quality. The plan is being created in anticipation of development along the Highway 50 Corridor, which runs parallel to the lake.

**Methods Employed:** Draw upon existing lake and watershed information and data. Utilize CDRPC GIS to map the watershed and analyze the environmental constraints and development patterns within the watershed. Gather input from state agencies, local governments, landowners, the lake association, SWCD, and SCWQC concerning Ballston Lake water quality, development and lake usage. Analyze the gathered information and make recommendations for water quality protection and improvement.

**Outputs:** A report that outlines the key issues and concerns and recommended actions. The report includes a series of GIS generated maps delineating environmental characteristics. Recommendations include regulatory changes, physical protective measures, BMPs, and land acquisition.



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**Title of Project:**

Source Water Protection: Village of Stillwater  
Aquifer Protection Study

**Time Period of Project:**

1996 - 1997

**Project Location:**

Town/Village of Stillwater - Saratoga County

**Project Contact:**

Todd Fabozzi - Program Manager

**Project Description(s):**

Coordinating Agencies: Rensselaer County  
SWCD and USDA NRCS, Saratoga County  
SWCD and USDA NRCS

**Purpose/Objective:** To develop a strategy and offer recommendations to the Village to protect the long-term integrity of its water supply. The primary components include an overview of the environmental features and characteristics of the aquifer, an analysis of existing land uses to identify potential land use water quality conflicts and regulatory and nonregulatory actions to protect the Village water source.

**Methods Employed:** Analyze existing environmental conditions and land uses within the watershed. Maps were prepared using GIS to delineate wetlands, floodplains, slopes, soil characteristics, and existing land uses within the watershed. Existing land use regulations were reviewed at the local level along with applicable state and federal regulations. Specific recommendations were made to address areas of concern that exist, based on the study's findings.

**Outputs:** A report that outlines the key issues and concerns and recommended actions. The report includes a series of GIS generated maps delineating environmental characteristics. Two regulatory options are outlined: the preparation of a local wa-



ter resource protection law or the adoption of zoning regulations. Land acquisition options are also defined along with a recommendation to extend Village sewer lines. Funding options are included. There is an Appendix, outlining Best Management Practices. Technical support has been provided to the Village in the preparation of a local water resource protection law.

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**Title of Project:**

Watershed Stormwater/Erosion Control Management Program

**Time Period of Project:**

1994–1997

**Project Location:**

Tomhannock Reservoir - Rensselaer County, and selected watershed areas in Saratoga County

**Project Contact:**

Todd Fabozzi - Program Manager

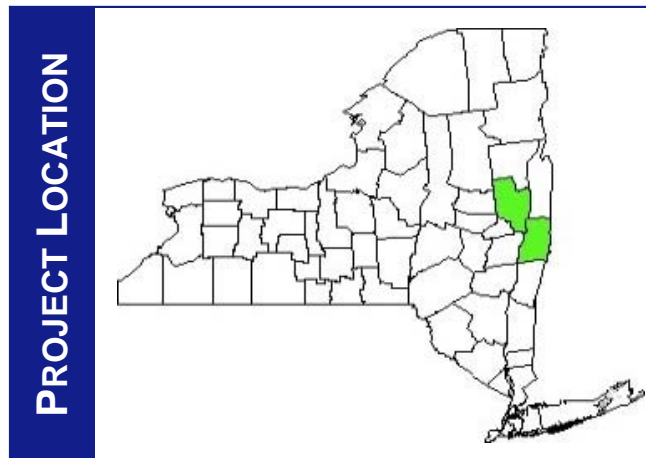
**Project Description(s):**

Cooperating Agencies: Rensselaer County SWCD and USDA NRCS, Saratoga County SWCD and USDA NRCS

**Purpose/Objective:** To develop a regional strategy for watershed management as it relates to non-point source pollution of sediments and nutrients. The primary components include: (1) Determine the impact of development (urban runoff, soil and sedimentation control and pollution) on the Tomhannock Reservoir watershed and in selected water priority areas of Saratoga County; (2) evaluate agricultural nonpoint source BMPs in the Tomhannock Watershed with regional application.

**Methods Employed:** Review and assess current regulations and practices as they relate to objectives for water quality protection for each municipality within the watershed's boundaries; GIS analysis of environmental and geographic conditions; implementation of BMPs at a farm site in the Tomhannock Reservoir watershed; and demonstration site selection in Saratoga County for implementation of sedimentation control measures.

**Outputs:** (1) Technical reports assessing current regulations and practices and recommended non-point pollution management measures for each



municipality studied; (2) reports covering BMPs, specific activities undertaken at the Kershaw Farm, and the findings of the monitoring and sampling programs; (3) a report outlining the soil and sedimentation control practices utilized and their effectiveness at each of the demonstration sites in Saratoga County; (4) educational materials featuring impacts of other land-use activities and BMPs to control this problem; (5) selected GIS-created environmental and geographic files for the watershed municipalities studies.

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**Title of Project:**

Source                      Water                      Protection:  
Groundwater/Wellhead    Protection            Program  
Phase I - Southwestern Rensselaer County  
Phase II - Southern Saratoga County

**Time Period of Project:**

Phase I: 1990–1993

Phase II: 1993–1994

**Project Location:**

Phase I: Southwestern Rensselaer County

Phase II: Southern Saratoga County

**Project Contact:**

Todd Fabozzi - Program Manager

**Project Description(s):**

**Purpose/Objective:** To increase public awareness in selected communities regarding the importance of implementing groundwater protection measures to protect drinking water supply source. Reports will facilitate development of effective management strategies and appropriate land-use measures to assist the municipalities in this effort.

**Methods Employed:** Research public and non-municipal water data; GIS analysis of environmental and geographic conditions, locations of wellhead sites, and land-use controls; and research viable land-use management strategies for groundwater protection.

**Outputs:** (1) A Well Data Inventory including well locations and ownership, population served, and the number of services, well depth/diameter/construction/distribution/storage capacity, safe yield, average consumption/production presence of treatment; (2) a Field Study Area Inventory of digital data (composed of aggregated one-mile radii surrounding each well including existing land-use activities; level of



overall potential threat to groundwater by these activities; zoning districts; (3) (for Phase II only) a compilation and discussion of BMPs to reduce or eliminate the generation of releases of groundwater contaminants; and (4) recommended land-use management strategies and appropriate techniques to protect groundwater supplies.