

**Agricultural
Environmental
Management**



**Round 28 Agricultural Non-point Source Abatement
and Control Program Project Descriptions**

All projects support the New York State Agricultural Environmental Management (AEM) Program by funding the implementation of agricultural water quality Best Management Practices (BMPs) to protect natural resources while maintaining the economic viability of New York State's diverse agricultural community.

Capital Region

\$344,100 was awarded to the Washington County Soil and Water Conservation District to work with one farm in the Upper Hudson River – Battenkill River Watershed. This project will:

- Implement a manure transfer system to allow for more efficient nutrient management, reducing the risk of nutrient runoff
- Reduce nitrogen leaching and preserve water quality of an aquifer
- Address a high priority watershed as identified in the District's Agricultural Environmental Management Strategic Plan

Central New York

\$187,630 was awarded to the Cayuga County Soil and Water Conservation District to work with one farm in the Finger Lakes Watershed. This project will:

- Install a waste storage and transfer system to replace the current 30-year-old barnyard that poses a risk to water quality
- Implement a riparian herbaceous buffer to protect sources of drinking water
- Install a water and sediment control basin to collect clean water and direct it away from the production area, preventing potential contamination

\$592,923 was awarded to the Cayuga County Soil and Water Conservation District to work with one farm in the Finger Lakes Watershed. This project will:

- Install a waste storage and transfer system to reduce the risk of nutrient and sediment runoff into nearby waterways
- Implement a livestock heavy use area runoff management system and silage leachate control and treatment system to reduce potential public health concerns for local homeowners
- Protect a tributary to an active drinking water source that provides water to over 50,000 public users

\$241,050 was awarded to the Cortland County Soil and Water Conservation District to work with one farm in the Susquehanna River Watershed. This project will:

- Assist in meeting nutrient load reductions for the Chesapeake Bay Total Maximum Daily Load
- Install a livestock covered heavy use area runoff management system that will exclude rainwater from the barnyard and contain manure and nutrients preventing runoff into nearby waterways
- Implement a 1.5 acre riparian buffer system and 1 acre of tree and shrub establishment to further reduce potential nutrient losses through leaching to groundwater

\$506,580 was awarded to the Cortland County Soil and Water Conservation District to work with one farm in the Susquehanna River Watershed. This project will:

- Assist in meeting nutrient load reductions for the Chesapeake Bay Total Maximum Daily Load and reduce potential nutrient leachate into an aquifer
- Implement a livestock heavy use area runoff management system and waste storage and transfer system to reduce the farm's impact to a nearby stream
- Install a one-acre riparian forest buffer system and a one-acre tree and shrub establishment to reduce nutrient leaching into nearby waterways and increase biodiversity and habitat

\$368,780 was awarded to the Madison County Soil and Water Conservation District to work with three farms in the Susquehanna River Watershed. This project will:

- Implement a prescribed rotational grazing system on one farm to reduce grazing impact and exclude livestock from the stream and wetland area, benefiting water quality in the area
- Install a livestock heavy use area runoff management system and erosion control structure on one farm to reduce the risk of nutrient runoff into nearby streams
- Install a waste storage and transfer system for one farm to reduce tractor passes on the land, decreasing erosion and nutrient loading into nearby waterways

\$717,375 was awarded to the Madison County Soil and Water Conservation District to work with three farms in the Finger Lakes Watershed. This project will:

- Implement a silage leachate collection system on one farm to collect and treat high flow leachate through a series of wetland cells, followed by a vegetative treatment area to protect a nearby stream
- Construct a 0.5 acre riparian buffer system to protect a trout stream from potential cropland runoff
- Install a livestock heavy use area runoff management system and erosion control structure on two farms to protect nearby wetland and streams during high flow events

\$103,329 was awarded to the Onondaga County Soil and Water Conservation District to work with two farms in the Finger Lakes Watershed. This project will:

- Implement a silage leachate collection system on one farm to prevent potential leachate discharges in the Onondaga Creek watershed
- Construct a waste storage and transfer system on one farm to enhance manure storage so it can be applied at optimal rates prior to spring planting to reduce nutrient runoff into nearby waterways

\$205,199 was awarded to the Onondaga County Soil and Water Conservation District to work with one farm in the Finger Lakes Watershed. This project will:

- Install a waste storage facility to decrease the potential of manure runoff events resulting in less nutrient leakage to waterbodies
- Implement a 4.23-acre riparian forest buffer and 7.23 acres of critical area planting designed to intercept pollutants carried by surface water runoff and remove excess loading of nutrients into nearby streams
- Contribute to accomplishing the current Onondaga Lake Total Maximum Daily Load reduction in non-point sources of pollution

\$248,865 was awarded to the Onondaga County Soil and Water Conservation District to work with one farm in the Finger Lakes Watershed. This project will:

- Install a waste storage and transfer system to store all manure and milkhouse waste until field conditions permit manure application, resulting in reduced nutrient leakage
- Implement two acres of critical area planting designed to prevent excess loading of nutrients into nearby streams
- Contribute to accomplishing the current Seneca River Total Maximum Daily Load reduction in non-point sources of pollution

Finger Lakes

\$670,800 was awarded to the Livingston County Soil and Water Conservation District to work with one farm in the Genesee River Watershed. This project will:

- Support improved agricultural nutrient management by installing a manure storage facility
- Address the goals identified in the Genesee River Nine Element Watershed Plan
- Reduce the risk of manure runoff and ground water contamination

\$224,170 was awarded to the Ontario County Soil and Water Conservation District to work with one farm in the Canandaigua Lake Watershed. This project will:

- Reduce agricultural runoff and protect a class AA drinking water supply
- Implement a livestock heavy use area runoff management system which will separate clean water out from the barnyards
- Address priority concerns identified in the Canandaigua Lake Nine Element Watershed Plan

\$588,545 was awarded to the Ontario County Soil and Water Conservation District to work with one farm in the Flint Creek/Seneca Lake Watershed. This project will:

- Target a watershed with documented water quality impairments due to phosphorus loading
- Implement a waste storage and transfer system to provide for efficient nutrient management
- Establish 1.2 acres of herbaceous buffer to protect a wetland

\$278,963 was awarded to the Wayne County Soil and Water Conservation District to work with one farm in the Clyde River/Erie Canal Watersheds. This project will:

- Implement three best management practices systems to effectively address high priority areas on the farm
- Plant a total of 300 acres of cover crops to improve the health of the soil and allow for increased capacity to utilize nutrients
- Encourage climate resiliency and sustainability on the farm

\$457,795 was awarded to the Wyoming County Soil and Water Conservation District to work with one farm in the East Koy Creek Watershed. This project will:

- Support water quality in a sub-watershed of the Genesee River, a tributary to Lake Ontario
- Provide for more effective and efficient land application of nutrients to reduce the risk of nutrient runoff
- Implement a riparian herbaceous buffer to filter sediment and other pollutants near a classified trout stream

\$80,080 was awarded to the Wyoming County Soil and Water Conservation District to work with one farm in the Tonawanda Creek Watershed. This project will:

- Mitigate potential water quality concerns within a watershed that drains to a public drinking water supply
- Implement a livestock heavy use area runoff management system which will separate clean water out from the barnyards and prevent contaminated runoff from reaching a stream
- Implement a riparian herbaceous buffer to filter sediment and other pollutants

\$1,077,925 was awarded to the Wyoming County Soil and Water Conservation District to work with one farm in the Genesee River Watershed. This project will:

- Expand nutrient storage capacity to allow for effective land application of nutrients
- Implement agricultural best management practices on land that will be permanently protected by a conservation easement
- Address priority concerns identified in the Genesee River Nine Element Watershed Plan

\$391,169 was awarded to the Wyoming County Soil and Water Conservation District to work with one farm in the Buffalo-Eighteenmile Creek Watershed. This project will:

- Implement a waste storage and transfer system to eliminate daily spreading

- Implement a silage leachate control system to address runoff concerns from feed storage areas
- Provide benefits to water quality while reducing the carbon footprint of the farm

Mohawk Valley

\$292,682 was awarded to the Herkimer County Soil and Water Conservation District to work with one farm in the Cripple Creek Watershed. This project will:

- Address non-point source pollution concerns in a sub-watershed of the Susquehanna River/Chesapeake Bay Watershed
- Reduce stress on 273 acres considered as highly erodible land
- Implement a waste storage and transfer system to eliminate daily spreading

\$221,276 was awarded to the Montgomery County Soil and Water Conservation District to work with one farm in the Canajoharie Creek Watershed; a sub-watershed of the Mohawk River. This project will:

- Implement a waste storage and transfer system to improve nutrient management to reduce nutrient leaching and runoff
- Install a process wash water management system and a silage leachate treatment system to greatly reduce the potential for runoff into surface waters
- Assist in the reduction of nutrient and sediment runoff through controlling access and hardening a cattle access route

\$933,760 was awarded to the Schoharie County Soil and Water Conservation District to work with one farm in the Cobleskill Creek Watershed. This project will:

- Implement multiple best management practices to improve on-farm nutrient management and treat silage leachate
- Establish an herbaceous buffer along a stream to filter sediment and nutrients
- Assist in meeting the goals and objectives written in the Mohawk River Watershed Management Plan

North Country

\$453,863 was awarded to the Clinton County Soil and Water Conservation District to work with one farm in the Lake Champlain – Dead Creek Watershed. This project will:

- Address a high priority water body that is a direct-to-lake tributary to Lake Champlain
- Improve nutrient management by providing additional manure storage to allow for efficient nutrient application
- Implement 300 acres of cover crops to reduce soil erosion and improve soil health

\$322,200 was awarded to the Essex County Soil and Water Conservation District to work with five farms in the Lake Champlain – Lower Bouquet River Watershed. This project will:

- Construct manure and agricultural waste treatment systems to assist each farm with manure composting
- Address a high priority watershed in Essex County to reduce runoff and transportation of nutrients and sediment
- Implement riparian forest buffers to reestablish vegetation to provide nutrient and sediment filtration

\$78,000 was awarded to the Essex County Soil and Water Conservation District to work with two farms in the Lake Champlain – Bouquet River Watershed. This project will:

- Reduce sediment and nutrient loading into a tributary of Lake Champlain
- Implement prescribed rotational grazing systems to allow for continued grazing and better access to useable land base
- Improve laneways and stream crossings to reduce sediment loss

\$402,030 was awarded to the Franklin County Soil and Water Conservation District to work with one farm in the Salmon River Watershed. This project will:

- Install three best management practice systems to improve water quality and provide enhanced environmental stewardship
- Focus on a top priority watershed within Franklin County and continue ongoing efforts to improve water quality

\$339,445 was awarded to the Lewis County Soil and Water Conservation District to work with three farms in the Black and Indian River Watersheds. This project will:

- Plant over 4,500 acres of cover crops to reduce erosion and sedimentation
- Improve soil health conditions by building organic matter and increasing nutrient uptake

\$223,144 was awarded to the Lewis County Soil and Water Conservation District to work with one farm in the Black River – Balsam Creek Watershed. This project will:

- Implement livestock heavy use area runoff management systems which will separate clean water and prevent nutrient laden runoff from reaching surface water
- Plant cover crops to address soils that have a high potential for runoff and nutrient leaching
- Address pollutants identified in the Black River Nine Element Watershed Plan by working with farms to promote Agricultural Environmental Management

\$221,470 was awarded to the St. Lawrence County Soil and Water Conservation District to work with one farm in the St. Lawrence River – Oswegatchie River Watershed. This project will:

- Work within the highest priority watershed as stated in the St. Lawrence County Agricultural Environmental Management Strategic Plan to target

- silt/sediments, nutrients, and pathogens
- Construct a manure storage facility and install erosion control practices to manage sediment and nutrient runoff from the farm
- Support the goals established in the St. Lawrence Agriculture and Farmland Protection Board's Agricultural Development Plan and help the farm achieve their environmental stewardship goals

Southern Tier

\$32,240 was awarded to the Broome County Soil and Water Conservation District to work with one farm in the Susquehanna River Watershed. This project will:

- Install livestock exclusion practices and establish five acres of forested riparian buffer
- Support prescribed rotational grazing practices to reduce nutrient and sediment loading
- Help meet water quality goals set by the Chesapeake Bay Total Maximum Daily Load

\$809,247 was awarded to the Delaware County Soil and Water Conservation District to work with one farm in the Susquehanna River Watershed. This project will:

- Improve the timing of manure application to farm fields through the implementation of a waste storage and transfer system, which will better utilize nutrients, reduce the use of commercial fertilizers, and decrease the risk of nutrient runoff
- Implement a livestock heavy use area runoff management system which will separate clean water out from the feed area and prevent nutrient laden runoff from reaching surface water

\$179,039 was awarded to the Tioga County Soil and Water Conservation District to work with two farms in the Susquehanna River Watershed. This project will:

- Address two erosion issues and subsequent sediment loss to a classified trout stream
- Implement over 700 feet of stream corridor and shoreline management systems to stabilize streambanks and manage erosion
- Establish forested riparian buffers to reduce potential nitrogen, phosphorus, and sediment in the stream corridor

\$533,830 was awarded to the Tompkins County Soil and Water Conservation District to work with one farm in the Cayuga Lake – Salmon Creek Watershed. This project will:

- Implement a waste storage and transfer system to improve on-farm nutrient management in accordance with the Cornell Nutrient Management 4R guidelines (right source, right time, right rate, and right placement)

- Address goals and objectives identified in the Harmful Algal Bloom Action Plan for Cayuga Lake
- Contribute to broader conservation efforts within the Salmon Creek Watershed

Western New York

\$194,735 was awarded to the Allegany County Soil and Water Conservation District to work with one farm in the Genesee River Watershed. This project will:

- Support improved feed storage practices to facilitate easy clean up and asset up a vegetative treatment area to treat runoff
- Restrict livestock access to a stream to reduce nutrient loading
- Implement 150 acres of cover crops to improve soil health and reduce soil loss
- Address a high and medium priority subwatershed as identified in the Genesee River Nine Element Watershed Plan

\$149,007 was awarded to the Chautauqua County Soil and Water Conservation District to work with one farm in the Allegany River – French Creek Watershed. This project will:

- Implement two best management practice systems: a waste storage facility and livestock heavy use area protection
- Reduce the potential of nutrient leaching to surface and ground water sources
- Address a high priority watershed to reduce the potential impacts of agricultural non-point source pollution on sensitive streams and ground water resources

\$204,920 was awarded to the Chautauqua County Soil and Water Conservation District to work with one farm in the Allegany River – Upper Little Brokenstraw Creek/Chautauqua Lake Watershed. This project will:

- Implement a waste storage facility that will provide total collection of leachate and runoff from on farm feed storages
- Prevent potential nutrient runoff to a classified trout stream
- Address a high priority watershed to reduce the potential impacts of agricultural non-point source pollution on sensitive streams and ground water resources

\$254,510 was awarded to the Erie County Soil and Water Conservation District to work with two farms in the Lake Erie – Clear Creek Watershed. This project will:

- Implement best management practice systems on each farm to reduce the potential for nutrient and sediment loading to nearby water resources
- Restrict livestock from watercourses and improve cropland management through access road and trail improvement
- Control priority agricultural pollutants identified in the New York State Department of Environmental Conservation Priority Waterbody List and Erie County AEM Strategic Plan