

**Agricultural
Environmental
Management**



Round 26 Agricultural Nonpoint 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.

Western NY

\$250,950 was awarded to the Allegany County Soil and Water Conservation District to work with two farms in the Genesee River Watershed. This project will:

- Improve local drinking water quality by addressing watering issues of large animal concentrations near the source intake.
- Create bedded pack barns for cows to be housed during winter months.
- Store solid manure of cattle to spread during dry weather.

\$402,600 was awarded to the Cattaraugus County Soil and Water Conservation District to work with two farms in the Conewango Creek Watershed. This project will:

- Reduce runoff and groundwater problems in the Davis Brook and Conewango Creek by addressing high nutrient loading areas of the farmstead and surrounding area.
- Update the farm's waste storage capabilities to meet required standards and close outdated existing storages.
- Establish a riparian herbaceous buffer along Davis Brook to collect incoming nutrients and sediment from the farmstead.
- Repair and update an existing treatment system to better manage silage leachate and meet regulatory standards.

\$592,124 was awarded to the Niagara County Soil and Water Conservation District to work with one farm in the Tonawanda Creek Watersheds. This project will:

- Improve manure management and storage on the farm
- Implement a riparian forested buffer and filter strip on active cropland to intercept surface runoff
- Reduce non-point source pollution on over 500 acres of farmland

Finger Lakes

\$746,378 was awarded to the Cayuga County Soil and Water Conservation District to work with thirteen farms in the Finger Lakes Watershed. This project will:

- Support efforts across Tompkins and Cayuga counties to implement nearly 14,000 acres of cover crops.
- Improve soil health and yield on cultivated fields by retaining organic carbon with cover crops.
- Reduce risk for erosion and runoff on cultivated fields.

\$768,398 was awarded to the Cayuga County Soil and Water Conservation District to work with sixteen farms in the Finger Lakes Watershed. This project will:

- Support efforts across Seneca and Cayuga counties to implement over 14,000 acres of cover crops.
- Improve soil health and yield on cultivated fields by retaining organic carbon with cover crops.
- Reduce risk for erosion and runoff on cultivated fields.

\$264,248 was awarded to the Genesee County Soil and Water Conservation District to work with one farm in the Lake Ontario Watershed. This project will:

- Construct a concrete manure storage facility to improve waste collection and management.
- Assist in a sustainable manure spreading in a landscape susceptible to high rates of runoff and water pollution.
- Help the farm meet the goals recently set by their voluntary CNMP.

\$70,000 was awarded to the Livingston County Soil and Water Conservation District to work with one farm in the Genesee River Watershed. This project will:

- Upgrade and enlarge an existing silage leachate storage tank to better accommodate the volume.
- Prevent groundwater infiltration of excess nutrients by using an impermeable liner.
- Foster environmental stewardship in the Genesee River Watershed.

\$282,934 was awarded to the Orleans County Soil and Water Conservation District to work with six farms in the Oak Orchard River, Sandy Creek, and Johnson Creek Watersheds. This project will:

- Focus on building healthy soils and promoting reduced tillage practices
- Implement over 4700 acres of cover crops throughout the watershed
- Reduce excessive runoff of nutrients and soil erosion to positively impact water quality

\$324,951 was awarded to the Orleans County Soil and Water Conservation District to work with five farms in the Oak Orchard Creek and Sandy Creek Watersheds. This project will:

- Support the county's agricultural industry by assisting with environmental stewardship projects
- Implement agrichemical handling facilities to encourage safe storage and provide spill protection
- Protect active sources of public drinking water

\$478,435 was awarded to the Wyoming County Soil and Water Conservation District to work with one farm in the Genesee River Watershed. This Project will:

- Provide additional waste storage to allow for the application of manure nutrients when the risk of runoff is low
- Implement a riparian forest buffer adjacent to a recognized trout stream
- Encourage other farms in the area to utilize buffers as a best management practice for protecting water quality

\$544,685 was awarded to the Wyoming County Soil and Water Conservation District to work with one farm in the Cattaraugus Creek Watershed. This project will:

- Support water quality in greater Lake Erie watershed
- Provide additional waste storage to accommodate multiple waste streams and allow for the application of manure nutrients when the risk of runoff is low
- Implement a riparian herbaceous buffer and restrict access of livestock from a designated trout stream

\$536,290 was awarded to the Yates County Soil and Water Conservation District to work with eight farms in the Seneca Lake Watershed. This project will:

- Work with landowners across the county to implement 18 agricultural water quality Best Management Practices Systems
- Install stormwater control measures to separate and clean water from the farmsteads
- Implement over 5.5 acres of riparian herbaceous buffer to protect surface waterbodies

Southern Tier

\$442,760 was awarded to the Broome County Soil and Water Conservation District to work with one farm in the Upper Susquehanna River Watershed. This project will:

- Support construction of a waste storage facility that provides an additional five months of storage time for the farm and allows manure spreading in drier weather.
- Furthers the farm nutrient plan in a landscape that is susceptible to erosion and concentrated runoff flow.
- Reduce the potential for groundwater/surface contamination in a Sole Source Aquifer.

\$940,539 was awarded to the Delaware County Soil and Water Conservation District to work with one farm in the Upper Susquehanna River Watershed. This project will:

- Construct two waste storage facilities that will improve manure management for the farm and reduce spreading in winter.
- Establish a forested riparian buffer along 950 feet of nearby Gay Creek.
- Help meet water quality goals set by the Upper Susquehanna TMDL.

\$682,580 was awarded to the Delaware County Soil and Water Conservation District to work with one farm in the Upper Susquehanna Watershed. This project will:

- Address issues with leachate freely running of bunk silos during rain events by collecting and diverting the target pollutant into a concrete storage facility.
- Reduce erosion and sediment loading into the nearby Treadwell Creek by implementing a forested riparian buffer along 210 feet of bank.
- Construct a storage facility to increase capacity and promote sustainable manure application timings as part of the farm's nutrient management plan.

\$421,906 was awarded to the Delaware County Soil and Water Conservation District to work with one farm in the Upper Susquehanna Watershed. This project will:

- Improve water quality in the Kortright Creek by reducing the amount of nutrients entering the waterbody through manure spreading in wet weather.
- Construct a concrete in-ground manure storage facility that would increase holding capacity of manure for the farm and reduce excess nutrient runoff
- Divert clean stormwater around the waste storage facility with the construction of a new drainage ditch.

\$921,893 was awarded to the Delaware County Soil and Water Conservation District to work with one farm in the Delaware River Watershed. This project will:

- Install a roofed concrete pad for heavy use area protection to prevent excess waste from cattle from being washed away during rain events.
- Fence off a nearby spring from cattle watering and install separate watering facilities.
- Establish 0.4 acres of forested riparian buffer along a tributary of the east branch of the Delaware River.

\$122,545 was awarded to the Schuyler County Soil and Water Conservation District to work with two farms in the Seneca Lake Watershed. This project will:

- Implement agrichemical handling facilities to encourage safe storage and provide spill protection
- Plant approximately 1.3 acres of riparian herbaceous buffer and 2.5 acres of riparian forest buffer to reduce sediment and nutrient loading to Seneca Lake
- Address sediment erosion from diversions flowing directly to Seneca Lake, a source of public drinking water

\$61,409 was awarded to the Schuyler County Soil and Water Conservation District to work with one farm in the Cayuga Lake Watershed. This project will:

- Exclude all livestock from surface waterbodies and plant 1.6 acres of riparian herbaceous buffer
- Provide for a livestock heavy use area to keep clean water clean and reduce farmstead runoff
- Support the reduction of sediment and nutrient runoff to tributaries of Cayuga Lake

\$196,200 was awarded to the Schuyler County Soil and Water Conservation District to work with three farms in the Chemung River Watershed. This project will:

- Implement high priority projects in Chemung and Schuyler counties and assist in meeting the goals defined in the Chesapeake Bay TMDL
- Exclude livestock from surface waterbodies and address sediment and nutrient loading issues
- Plant approximately 5 acres of riparian herbaceous buffer and 9 acres of riparian forest buffer

\$21,356 was awarded to the Tioga County Soil and Water Conservation District to work with two farms in the Owego Creek and Upper Susquehanna River Watersheds. This project will:

- Implement over 250 acres of cover crops to reduce cropland erosion and soil runoff
- Improve overall soil health by increasing water infiltration, increasing organic matter, encouraging healthy soil biota
- Address goals identified in the Chesapeake Bay TMDL

Central NY

\$641,200 was awarded to the Madison County Soil and Water Conservation District to work with three farms in the Chenango River and Chesapeake Bay Watersheds. This project will:

- Install waste storages to improve nutrient and waste management during times of inclement weather
- Manage stormwater on the farmstead
- Improve the silage leachate collection system to management stormwater in an effective way

\$213,438 was awarded to the Madison County Soil and Water Conservation District to work with four farms in the Upper Tioughnioga River and Chesapeake Bay Watersheds. This project will:

- Implement Best Management Practice Systems in both Madison and Onondaga counties
- Implement livestock heavy use area runoff management systems which will separate clean water out from the barnyards

- Provide enhanced manure management strategies to protect groundwater resources
- Provide for the implementation of rotational grazing and improved stream crossings

\$224,135 was awarded to the Madison County Soil and Water Conservation District to work with four farms in the Upper Tiougnioga River, Chenango River, and Chesapeake Bay Watersheds. This project will:

- Implement prescribed rotational grazing systems on over 60 acres of agricultural land
- Facilitate increased forage cover, improve nutrient transfer, increase species diversity and biological soil health
- Create approximately 12 acres of riparian herbaceous buffer and limit livestock access to streams

\$220,156 was awarded to the Madison County Soil and Water Conservation District to work with nine farms in the Chesapeake Bay Watershed. This project will:

- Implement approximately 4900 acres of cover crops over three years
- Address fields with highly erodible soils to reduce soil loss and nitrogen leaching
- Pilot no-till planting strategies to further improve soil health and reduce farm emissions

\$388,489 was awarded to the Onondaga County Soil and Water Conservation District to work with one farm in the Skaneateles Lake Watershed. This project will:

- Protect drinking water for the City of Syracuse
- Implement a waste storage system on the farm which will increase storage capacity and reduce nutrient loading
- Support improved manure management to increase nutrient recycling and reduce the need for fertilizer application

\$61,630 was awarded to the Onondaga County Soil and Water Conservation District to work with three farms in the Skaneateles Lake Watershed. This project will:

- Implement rotational grazing and erosion control practices to reduce nutrient and sediment loss
- Support the implementation of 510 acres of cover crops on high risk fields
- Reduce risk of Harmful Algal Blooms and address goals listed in the Skaneateles Lake Harmful Algal Bloom Action Plan

\$115,200 was awarded to the Onondaga County Soil and Water Conservation District to work with one farm in the Skaneateles Lake Watershed. This project will:

- Stabilize approximately 800 feet of a Class AA tributary of Skaneateles Lake.
- Reduce stream turbidity to continue the filtration avoidance of the drinking water for the City of Syracuse

- Re-establish a riparian forest buffer along the channel to slow the water, reduce soil erosion, and decrease nutrient and sediment loading into the lake

\$111,810 was awarded to the Onondaga County Soil and Water Conservation District to work with eight farms in the Otisco Lake and Onondaga Lake Watersheds. This project will:

- Promote healthy soil and improve soil nutrient retention to decrease nutrient loading into Otisco and Onondaga Lakes
- Implement over 2000 acres of cover crops on highly erodible farmland over a three year period
- Encourage other farms within the watershed to adopt similar soil health practices

North Country

\$151,068 was awarded to the Essex County Soil and Water Conservation District to work with one farm in the Lake Champlain Watershed. This project will:

- Improve water quality in nearby waterways by managing sediment in runoff from the farmstead via redirection into water and sediment control basins.
- Reduce excess nutrients from exiting the farmstead by creation and use of a vegetated treatment area.
- Construct a waste storage facility to make the management and spreading of manure easier for the farm.

\$100,425 was awarded to the Essex County Soil and Water Conservation District to work with one farm in the Lake Champlain Watershed. This project will:

- Reduce sediment and nutrient loading to a nearby unnamed tributary to Lake Champlain.
- Construct a heavy use area runoff management system to collect and redirect polluted runoff.
- Establish a vegetated area to treat stormwater with high nutrient concentrations.

\$87,805 was awarded to the Essex County Soil and Water Conservation District to work with two farms in the Lake Champlain Watershed. This project will:

- Reduce sediment pollution by installing a concrete animal trail/walkway in a high traffic area of a farmstead.
- Install roof gutters to direct clean stormwater away from intensively used areas of the livestock farms.
- Construct a concrete pad on a farm, making it easier to scrape and remove excess manure.

\$49,915 was awarded to the Franklin County Soil and Water Conservation District to work with two farms in the St. Lawrence River Watershed. This project will:

- Utilize equipment purchased by the District to support soil health across the county and implement 750 acres of cover crop.
- Reduce tillage and water pollution while educating farmers on no-till and cover crop benefits.
- Work cooperatively with farmers to apply the correct type of cover crops for their farms.

\$209,700 was awarded to the Jefferson County Soil and Water Conservation District to work with one farm in the Black River Watershed. This project will:

- Construct a satellite manure waste storage, better accommodating the number of animals on the farm.
- Contribute towards meeting the goals of the District AEM Strategic Plan and Black River 9E Plan.
- Enable the farm to spread manure more sustainably during dry weather.

\$250,950 was awarded to the Jefferson County Soil and Water Conservation District to work with one farm in the Black River Watershed. This project will:

- Treat the farm's milking center waste by redirecting the flow and incorporating it into the sustainable manure spreading plan.
- Construct a concrete livestock heavy use area to store heifers and dry cows during summer months.
- Support local drinking water by eliminating process water discharge of into groundwater.

\$503,419 was awarded to the Lewis County Soil and Water Conservation District to work with one farm in the Black River Watershed. This project will:

- Address resource concerns from silage leachate entering a roadside ditch near the bunk silos on the farm.
- Construct a concrete manure storage facility that will accept wastewater and provide additional manure storage for the farm.
- Minimize nutrient pollution in a landscape that is especially susceptible to groundwater infiltration.

\$6,900 was awarded to the Lewis County Soil and Water Conservation District to work with one farm in the Finger Lakes Watershed. This project will:

- Develop a Comprehensive Nutrient Management Plan (CNMP) on a cow/beef operation.
- Plan sustainable practices of managing nutrients that also fits with the farm's economic plan.
- Foster environmental stewardship in the Finger Lakes Watershed.

\$273,665 was awarded to the St. Lawrence County Soil and Water Conservation District to work with one farm in the Grass River Watershed. This project will:

- Expand the farms manure storage capacity to allow for improved manure management
- Allow for improved timing and application of manure to reduce the potential of nutrient loss

Mohawk Valley

\$631,879 was awarded to the Herkimer County Soil and Water Conservation District to work with one farm in the Mohawk River Watershed. This project will:

- Construct a concrete manure storage, waste transfer components, and a covered laneway on the farmstead.
- Support the health of the local drinking water source by reducing the amount of nutrients infiltrating the groundwater.
- Contribute towards meeting the goals of the District AEM Strategic Plan and Mohawk River Coalition.

\$361,526 was awarded to the Montgomery County Soil and Water Conservation District to work with one farm in the Canajoharie Creek Watershed. This project will:

- Implement six best management practices systems to address multiple aspects of the farm operations
- Manage livestock stream access for grazing cattle and implement 1.2 acres of riparian herbaceous cover
- Install streambank stabilization practices to address an estimated soil loss of 400 cubic yards per year

\$108,956.00 was awarded to the Schoharie County Soil and Water Conservation District to work with one farm in the Schoharie Creek Watershed. This project will:

- Install a roofed barnyard to allow for more efficient manure collection and storage
- Install fencing and access control along 800 feet of a vital stream to prevent livestock from degrading water quality
- Address goals identified in the Mohawk River Watershed Management Plan to protect and restore natural hydrology

Capital Region

\$441,950 was awarded to the Albany County Soil and Water Conservation District to work with one farm in the Upper Hudson River Watershed. This project will:

- Support the surface water quality of Basic Creek, known for sediment and nutrient loading, through agricultural BMP implementation.
- Implement a riparian forest buffer and livestock access control to protect stream's ecological health from nearby farming.
- Effectively treat upstream sediment pollution from a livestock heavy use area.

\$219,310 was awarded to the Albany County Soil and Water Conservation District to work with one farm in the Upper Hudson River Watershed. This project will:

- Reduce manure spreading on steep slope fields during times of the year where runoff risk is high through construction of a waste storage facility and transfer system.
- Prevent high nutrient concentration leachate and stormwater runoff from entering nearby waterways and wetlands.
- Support the farm's commitment to a CNMP and AEM environmental plan.

\$172,000 was awarded to the Washington County Soil and Water Conservation District to work with one farm in the Wood Creek - Lake Champlain Watershed. This project will:

- Improve nutrient management and eliminate daily manure spreading
- Allow for the application of nutrients at the right rate, right time, and right place
- Address goals identified in the Lake Champlain TMDL

Long Island

\$204,675 was awarded to the Suffolk County Soil and Water Conservation District to work with twenty-six farms to address the Nassau Suffolk Sole Source Aquifer and Peconic Estuary. This project will:

- Replace thirty-eight petroleum product storage facilities to safely contain approximately 17,000 gallons of petroleum
- Aid in protecting a drinking water supply that serves over two million people

\$136,950 was awarded to the Suffolk County Soil and Water Conservation District to work with one farm to address the Peconic Estuary and the Long Island Sole Source Aquifer. This project will:

- Improve the efficiency of an existing anaerobic digester system
- Aid in protecting a drinking water supply that serves over two million people