

New York Chesapeake Bay Restore Clean Water Action Items
2020-2021 Programmatic and Numeric Milestones – 2021 Final Progress

Target Date	Milestone (WIP page reference) ¹	Deliverable	Lead Agency	2021 Status	Comments/Status Updates																				
12/31/2021	NYS funding for agricultural technical assistance through the Agricultural Environmental Management (AEM) Program (P.59)	<p>Implement two years of the AEM Base Program, supporting technical assistance by Soil & Water Conservation Districts through the AEM Tiers:</p> <p>Tier 1: Resource Inventory Tier 2: Environmental Assessment Tier 3: Conservation Planning Tier 4: BMP System Implementation Tier 5: Evaluation of Implemented Practices or Plan Update</p> <p>This program is funded through New York’s Environmental Protection Fund (EPF). During the last milestone period, the total amount of technical assistance provided by Soil and Water Conservation Districts was estimated to be \$2.26 million for the counties in the watershed.</p>	NYS Department of Agriculture and Markets (NYSDAM)/NYS Soil and Water Conservation Committee (NYSSWCC)	Milestone Met	<p>2020 Update: This milestone report summarizes work through the AEM Tiers completed by SWCDs in the USC area using funding from AEM Base Program Year 15 (May – Dec. 2019). Year 15 represented an eight-month period as the AEM Base Program transitioned to a two-year calendar year-based schedule starting in Jan. 2020. Except when specifically noted, all data represent accomplishments within the Chesapeake Bay Watershed HUC12s. This work is in addition to accomplishments documented in prior milestone reports.</p> <table border="1"> <thead> <tr> <th>AEM Base</th> <th>Year 15</th> </tr> </thead> <tbody> <tr> <td>Districts</td> <td>15</td> </tr> <tr> <td>Tier 1</td> <td>60</td> </tr> <tr> <td>Tier 2</td> <td>13</td> </tr> <tr> <td>Tier 3A</td> <td>30</td> </tr> <tr> <td>Tier 3B</td> <td>3</td> </tr> <tr> <td>Tier 4</td> <td>68</td> </tr> <tr> <td>Tier 5A</td> <td>11</td> </tr> <tr> <td>Tier 5B</td> <td>75</td> </tr> <tr> <td>Total \$ of Tech. Assist. by SWCDs</td> <td>\$0.81M*</td> </tr> </tbody> </table> <p>*includes AEM Base Tech Assistance dollars provided for entire county, not solely those HUC12s in the Chesapeake Bay Watershed.</p> <p>2021 Update: This milestone report summarizes the objectives of SWCDs in the USC area for use of AEM Base Program funding awarded under Round 16 (two-year program period spanning</p>	AEM Base	Year 15	Districts	15	Tier 1	60	Tier 2	13	Tier 3A	30	Tier 3B	3	Tier 4	68	Tier 5A	11	Tier 5B	75	Total \$ of Tech. Assist. by SWCDs	\$0.81M*
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¹ As part of the adaptive management process for achieving water quality goals, jurisdictions may submit programmatic milestones that modify, are in place of, or are in addition to milestones listed in their Phase I WIPs so long as the jurisdiction can demonstrate that they will be as effective toward meeting water quality goals.

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					<p>Jan. 1, 2020, through Dec. 31, 2021; continuation of the Technical Assistance Track for work through the AEM Tiers; and addition of a new Tier 4 BMP Implementation Cost-Share Funding Track). Given the new two-year structure of the AEM Base Program, 2020 - 2021 accomplishments will be available for reporting in mid-2022. Except when specifically noted, all data represent projects within the Chesapeake Bay Watershed HUC12s.</p> <table border="1" data-bbox="1465 630 1990 959"> <thead> <tr> <th data-bbox="1465 630 1812 695">AEM Base Program</th> <th data-bbox="1812 630 1990 695">Round 16 (2020-2021)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1465 695 1812 760">Districts Substantial Area in the Chesapeake Watershed</td> <td data-bbox="1812 695 1990 760">17</td> </tr> <tr> <td data-bbox="1465 760 1812 862">Total Technical Assistance Funding Awarded for Work through AEM Tiers 1-5</td> <td data-bbox="1812 760 1990 862">\$2.8M*</td> </tr> <tr> <td data-bbox="1465 862 1812 959">Total Cost-Share Funding to Implement Tier 4 BMP Systems on 42 Farms</td> <td data-bbox="1812 862 1990 959">\$841K</td> </tr> </tbody> </table> <p>BMP Systems Planned for Implementation:</p> <ul style="list-style-type: none"> • Erosion Control - Structural System • Livestock Heavy Use Area Runoff Management System • Petroleum and Oil Products Storage System • Prescribed Rotational Grazing System • Riparian Buffer System • Silage Leachate Control and Treatment System • Soil Health System • Stream Corridor and Shoreline Management System • Waste Storage and Transfer System 	AEM Base Program	Round 16 (2020-2021)	Districts Substantial Area in the Chesapeake Watershed	17	Total Technical Assistance Funding Awarded for Work through AEM Tiers 1-5	\$2.8M*	Total Cost-Share Funding to Implement Tier 4 BMP Systems on 42 Farms	\$841K
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					<p>*includes AEM Base Tech Assistance dollars provided for entire county, not solely those HUC12s in the Chesapeake Bay Watershed.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	NYS funding for agricultural practice implementation through the Agricultural Nonpoint Source Abatement and Control Program (AgNPS) (P.60)	Implement two rounds of the NYS Agricultural Nonpoint Source Abatement and Control Program (AgNPS). This program is funded through New York’s Environmental Protection Fund (EPF). \$18 million of statewide funding is proposed in the SFY 2020-2021 budget. During the last milestone period, a total of \$6.3 million was spent implementing 179 BMPs on 25 farms in the watershed, of which \$1.57 million was cost shared by the farmer. Installation of BMPs implemented in the watershed through this program will be reported on an annual basis.	NYSDAM/ NYSSWCC	Milestone Met	<p>2020 Update: Since the last milestone report, districts in the USC have applied for additional funding through Round 26 of the AgNPS Program. The ranked list of AgNPS Round 26 projects was awarded in March 2021, which includes funding for the following BMPs within the Chesapeake Bay watershed:</p> <ul style="list-style-type: none"> - Waste Storage Facility (7 farms) - Riparian Forest Buffer (6 farms) - Riparian Herbaceous Buffer (17 acres, 5 farms) - Silage Leachate Control (2 systems, 2 farms) - Heavy Use Area Protection (2 farms) - Livestock Exclusion Fencing (2 farms) - Cover Crops (5,400 acres, 15 farms) - Rotational Grazing (60 acres, 2 farms) - No till practices (1 farm) <p>Not including farmer cost share, over \$4 million was awarded. Round 27 of the AgNPS program is expected to be released in May 2021.</p> <p>2021 Update: Since the last milestone report, districts in the USC have applied for additional funding through Round 27 of the AgNPS Program. The ranked list of AgNPS Round 27 projects was awarded in October 2021, which</p>

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					<p>includes funding for the following BMPs within the Chesapeake Bay watershed:</p> <ul style="list-style-type: none"> - Waste Storage Facility (3 farms) - Riparian Forest Buffer (6 farms) - Riparian Herbaceous Buffer (1 farm) - Silage Leachate Control (1 farm) - Heavy Use Area Protection (5 farms) - Livestock Exclusion Fencing (1 farm) - Cover Crops (6 farms) - Rotational Grazing (1 farm) <p>Not including farmer cost share, over \$3.4 million was awarded for projects on 19 farms in the Chesapeake Watershed.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	NYS funding for agricultural practice implementation through the Climate Resilient Farming Program (P.61)	Implement two rounds of the program. Program funds are available for projects that mitigate the impact of agriculture on climate change and enhance the on-farm adaptation and resiliency to projected climate conditions. This program is funded through New York’s Environmental Protection Fund (EPF). \$4.5 million of statewide funding is proposed in the SFY 2020-2021 budget.	NYSDAM/ NYSSWCC	Milestone Partially Missed (due to COVID-19, only one round of funding was released during the milestone period)	<p>2020 Update: Since the last milestone report, Districts in the USC have applied for additional funding through Round 5 of the CRF Program for several priority projects covering dozens of BMPs in the Watershed. The ranked list of CRF Round 5 projects is prepared and awaiting announcement pending clarity on NYS budget constraints created by the COVID-19 pandemic.</p> <p>2021 Update: Round 5 of the Climate Resilient Farming Program was awarded in Feb. 2021, including the following BMPs in the Chesapeake Watershed:</p> <ul style="list-style-type: none"> - Riparian Forest Buffer (7 farms) - Stream Corridor and Shoreline Management System (3 farms)

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					<ul style="list-style-type: none"> - Rotational Grazing (1 farm) - Irrigation System (1 farm) - Soil Conservation System – Cultural (1 farm) <p>Not including farmer cost share, over \$594,000 was awarded for projects on 9 farms in the Chesapeake Watershed.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	NYS funding for Comprehensive Nutrient Management Plans (CNMPs) for small farms through the Dairy Acceleration Program (DAP) (P.64)	Implement two rounds of DAP to cost-share farm business planning and CNMP development/updates for dairy farms with fewer than 300 cows. This program is funded through the state Environmental Protection Fund (EPF). \$700,000 of statewide funding is proposed in the SFY 2020-2021 budget. BMPs implemented in the watershed through this program will be reported on an annual basis.	Cornell University, NYS Department of Environmental Conservation (NYSDEC), NYSDAM/ NYSSWCC		<p>2020 Update: During 2020, DAP funded 25 new CNMPs at \$138,665 and 14 updated CNMPs at \$54,947.</p> <p>2021 Update: During 2021, DAP funded 22 new CNMPs at \$107,704.98 and 9 updated CNMPs at \$40,045.87.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>

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12/31/2021	Cover Crop Implementation Program (P.64)	Execute a contract amendment to increase funding for the USC's existing cover crop implementation program. A contract will be executed in 2020 and 2,000 acres of cover crops will be implemented per year in Fall 2020 and Fall 2021. Funding will be increased from \$200,000 per year to \$350,000 per year.	Upper Susquehanna Coalition (USC)	Milestone Met	<p>2020 Update: A contract amendment was executed to increase funding for cover crops. A total of 13,369.70 acres of cover crops were implemented in 2020 as a result of the Cover Crop Implementation Program. 1,054.5 of those acres were implemented using a High Boy Inter-seeder. A total of 105 farms participated across 12 counties.</p> <p>2021 Update: A total of 12,087.52 acres of cover crops were implemented in 2021 as a result of the Cover Crop Implementation Program. A total of 106 farms participated across 13 counties. Of which, 663.42 acres were implemented using a High Boy interseeder.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	BMP data collection and reporting (P.55)	Collect agriculture BMP data following the Agricultural Environmental Management approach and using USC's online data management system to collect farm BMP data and convert to NEIEN-compliant format for the 2020 and 2021 Progress Runs. BMP data collection is supported by Chesapeake Bay Implementation Grant Funding (CBIG).	USC	Milestone Met	<p>2020 Update: 2020 Agricultural BMP data was collected by 16 SWCD's and input into the USC's AEM Online Tool for submission to the Chesapeake Bay Model via the NEIEN Node. 2020 Progress data was submitted via the NEIEN on the following dates ahead of the December 1, 2020 Deadline: September 4, October 13, November 6 and November 12.</p> <p>2021 Update: 2021 Agricultural BMP data was collected by 18 SWCDs and input into the USC's AEM Online Tool for submission to the Chesapeake Bay Model via the NEIEN Node. 2021 Progress data was submitted via the NEIEN on the following dates ahead of the December 1, 2021 Deadline: September 1, September 3, September 7, October 13, and November 29.</p>

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					This milestone will continue in the 2022-2023 milestones.
12/31/2021	Increase capacity of Reporting/Verification program, Enhanced BMP reporting (P.72-73) through the development of mobile application for annual practice reporting and verification	Using 2020 WIP assistance funds, the USC will oversee the development of a mobile “app” that will be used on a farm-by-farm basis either by the landowner or with assistance from their Soil and Water Conservation District to assist with reporting annual agricultural practices including Cover Crops, Tillage Practices, Precision Feed Management, Manure Incorporation, and Nutrient Management.	USC, NYSDEC	Milestone Partially Missed (Due to COVID-19, project will transfer to 2022-2023 milestones)	<p>2020 Update: Due to COVID-19 pandemic, contracts were delayed, which resulted in a delay on work being completed for this project. It is expected that the contract to support the development of the mobile application will be executed in 2021.</p> <p>2021 Update: The USC secured assistance through the Tioga County GIS specialist for the development of this tool. This tool will be developed utilizing ArcGIS Online and Survey 123. This will require county users to have ArcGIS Online access. A survey was completed of all counties to identify who currently has access to ArcGIS Online and who will need accounts setup. The Tioga Co. GIS Specialist will assist counties with those account. Development of the application is currently underway and expected to be completed during the next milestone period.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	Increase capacity for agricultural BMP verification (P.72-73)	<p>Execute contract amendment with the USC to increase funding for agriculture BMP data collection and reporting in 2020.</p> <p>Implement and refine verification procedures for agricultural BMPs in the Chesapeake Bay watershed. Any updates to verification procedures will be reflected in New York’s Nonpoint</p>	USC, NYSDEC	Milestone Met	<p>2020 Update: In November of 2020, the USC completed and distributed randomly selected farm lists to each member county to conduct BMP Whole Farm Verification consistent with the NYS Nonpoint Source QAPP. BMP Whole Farm Verification include on-site visual inspections and on-site record reviews for all verification visits. If there is a problem with a BMP, the site is brought into compliance within one year or removed from the database. Farms under the CAFO Permit or in a cost share</p>

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		<p>Source QAPP on an annual basis as needed. Continue to evaluate program to be sure that all BMP's are verified through "Whole Farm Verification" prior to the end of their lifespan. BMP verification is supported by Chesapeake Bay Implementation Grant Funding (CBIG).</p>			<p>program have compliance policies for maintaining BMPs. In addition to the regular randomly sampled farm lists, the USC sent a list of currently "unverified farms" to each county that was not on track to visit all farms, prior to BMP lifespans expiring. Those counties were required to choose a number of additional farms from that list to include with their 2021 Progress BMP Verification Visits for the upcoming years progress. No QAPP updates were required for the 2020 progress period.</p> <p>2021 Update: Random Sampling for 2021 was completed and distributed to all counties, which included 157 farm sites, 10 stream sites, 1 urban buffer site, and 10 wetland sites that were required to be verified for 2021 Progress. In 2021, the USC was able to provide funding to assist with covering SWCD staff time for completing BMP Verification. The USC was able to pay \$1,000 per farm site, and \$300 per stream site verified. The wetland and urban buffer sites were verified by USC staff. During QA/QC and data submissions, the USC Ag Coordinator identified any changes that may be needed for the USC Online Database Tool. Major changes in 2021 included the additional of Wetland, Urban Buffers, and Stream reporting ability on the user interface. This addition allows SWCD staff to enter data for those practices directly into the USC Online Database Tool, instead of channeling that data through the USC Ag Coordinator via spreadsheets. All changes made to the USC Online Database Tool were outline in the QAPP which was submitted to EPA by DEC on November 17, 2021.</p>

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12/31/2021	CAFO BMP data collection program	Continue BMP data collection program for CAFO farms by combining NYSDEC compliance inspections with SWCD data collection and verification visits. Data collected will include both cost-shared and non-cost-shared BMPs to the extent possible to generate a complete record of implementation on CAFO farms. The CAFO BMP data collection program is supported by Chesapeake Bay Implementation Grant Funding (CBIG).	NYSDEC, USC	Milestone Met	<p>2020 Update: USC member counties participated in 8 CAFO inspections in the watershed during 2020. This number is lower than usual since COVID-19 pandemic restrictions required the cancellation of a number of inspections. USC Staff that participate are able to document practice implementation on these farms and information is reported into the USC database, as outlined in the QAPP. During this year, no issues were reported.</p> <p>2021 Update: USC member counties participated in 34 CAFO inspections in the watershed during 2021. USC Staff are able to document practice implementation on these farms and information is reported into the USC database, as outlined in the QAPP. During this year, no issues were reported.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	Agricultural Environmental Management (AEM) Outreach and Education (P.71)	Deliver outreach programs for farmers and agricultural professionals in the watershed about agricultural environmental management, including Cornell Cooperative Extension, Soil & Water Conservation District, NYSDAM, and NRCS workshops as well as two years of multi-day trainings, including: Conservation Skills Workshop, Certified Crop Advisor (CCA) Training, and Water Quality Symposium.	USC, NYSDAM, Cornell University, NRCS	Milestone Met	<p>2020 Update: The USC in coordination with Otsego County Conservation Association, developed and hosted “Watershed Wednesdays”. This was a total of 14 mini sessions (30 minutes) held in July, August, November and December. Each session was on a different topic and speaker. These Watershed Wednesday events took place of the 2020 Upper Susquehanna Watershed Forum that was cancelled due to the COVID-19 pandemic. Each session was recorded and posted to the USC website and Facebook page.</p>

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					<p>The following events also took place during the milestone period:</p> <ul style="list-style-type: none"> • Water Quality Symposium (approx. 250 participants; Mar. 10-13, 2020) • Virtual Empire Farm Days Soil Health Seminar Series (approx. 150 participants; Jul. 29-31, 2020) • Conservation Skills Workshop (99 participants; Sep. 14-30, 2020) • Virtual Northeast Region Certified Crop Advisor Conference (145 participants; Dec. 1-3, 2020) • NRCS 590 Webinar (approx. 85 participants; Dec. 10, 2020) <p>2021 Update For the second year, the USC in coordination with Otsego County Conservation Association and Choose Clean Water Coalition, developed and hosted “Watershed Wednesdays”. This was a total of 13 mini sessions (30 minutes) held on Wednesdays from August through October. Each session was on a different topic and speaker. These Watershed Wednesday events took place of the 2021 Upper Susquehanna Watershed Forum that was cancelled due to the COVID-19 pandemic. Each session was recorded and posted to the USC website, YouTube channel and Facebook page. There were 301 live participants, and 251 views of the recorded sessions of the 2021 Watershed Wednesday events. The following events also took place during the milestone period:</p> <ul style="list-style-type: none"> • Water Quality Symposium (95 participants; March 2021)

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					<ul style="list-style-type: none"> • Ithaca Native Landscape Symposium (92 participants; March 2021) • OCC BWET Program in Steuben and Otsego Counties (12 participants; July 2021) • CCE Master Naturalist Training (14 participants; July 2021) <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2020	Compliance and enforcement of CAFO permits (P.27)	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYSDEC	Milestone Met	<p>2020 Update: 22 medium CAFO inspections and 14 large CAFO inspections were completed in 2020. DEC issued 3 responses to public complaints and one notice of violation.</p> <p>2021 Update: 15 medium CAFO inspections and 12 large CAFO inspections were completed in 2021. DEC issued a notice of violation, a consent order, and 2 responses to public complaints.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	Pursue additional funding sources for agricultural implementation (P.79)	USC coordinator(s) and team leader(s) along with SWCD will review and submit grant applications to appropriate funding sources to further the USC mission in our focus areas, implementation efforts for the CB program and staff support. Funding opportunities may include but not limited to NFWF, RCPP, and state funding sources.	USC, NYSDEC	Milestone Met	<p>2020 Update: In 2020, the USC was successful in obtaining NFWF INSR grant funding to continue the USC's Water Quality Program and increase capacity throughout the watershed. The USC also obtained new funding from the US Forestry Service to support a buffer technician in the watershed and provide project support to the Buffer Team. The USC pursued additional funding through NFWF SWG, and NRCS CIG for Nutrient Management Planning and Incentives, along with Cropland Grass Buffers. These applications were unsuccessful but will be re-</p>

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					<p>vamped and used as a basis for future funding opportunities.</p> <p>2021 Update: In 2021, The USC was successful in obtaining the NFWF Small Watershed Implementation Nutrient Management Proposal and NFWF SWG grant funding to focus on stream corridor restoration efforts in 1-4 watersheds and conduct 3 watershed assessments. The USC also obtained funding from the Arbor Day Foundation to purchase 30,000 containerized stock for all 2022 planting projects. Funding was awarded from the Susquehanna River Basin Commission and their Consumptive Use Mitigation Program to purchase property in the Mud Creek Watershed and restore over 26 acres of wetland and riparian forest area. In November of 2021, the USC submitted a proposal to the NFWF INSR Program to fund Natural Filter practices. The USC anticipates hearing in March of 2022 about this program award. In Summer of 2021, the USC submitted an RCPP Renewal Proposal to continue doing water quality improvement projects through the RCPP Program. This Renewal was tentatively awarded, pending work plan approval and PPA signatures by NRCS that are required to be completed by 12/31/2021.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	Increased incentives for producers, expand assistance for maintenance of riparian buffers (P.	NYSDEC has allocated \$500,000 of CBIG funding as a continuation of the CREP state incentive program that began as part of the USDA-FSA Chesapeake Bay Riparian Forest Buffer Initiative. Funding	NYSDEC, NYSDAM, USC	Milestone Met	<p>2020 Update: As of September 2020, the USC has contracted with member SWCDs to allocate funding to three buffer projects. In total, contracted projects will result in 38 new acres of riparian forest buffer and complimentary practices (Access Control and Streambank</p>

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	70-71) through the “Comprehensive Riparian Buffer Establishment in the Susquehanna River Basin” program.	will continue the CREP state incentive for riparian forest buffers. Additional funding has also been allocated for CREP re-enrollment activities, assessment and planning of new riparian buffer sites, evaluation and maintenance of existing buffer sites, and piloting a new non-CREP incentive program for focused on implementation of riparian buffers on cropland acres. BMPs implemented in the watershed through this program will be reported on an annual basis.			<p>Stabilization). Projects are located within Delaware, Chenango and Cortland Counties and will be complete in 2021.</p> <p>2021 Update: This agreement was modified and extended to 10/2022. To date, all deliverables have been met and the USC has provided the State Practice Incentive Payment (SPIP) on nearly 50 acres of riparian forest buffers enrolled in CREP, had boots on the ground on over 600 acres of planted buffer to assess plant survival, performed about 670 acres of establishment activities, and engaged partners and districts in planning RFB implementation on about 80 acres of land in 2021.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
5/31/2020	<p>Susquehanna Watershed Riparian Buffer Enhancement Project</p> <p>(This project is supported by the USFS/NRCS Joint Chiefs’ Landscape Restoration Partnership)</p>	Provide education to promote riparian forest buffer implementation to landowners, develop and provide buffer workshops and trainings, coordinate buffer workgroups, and track implementation in the watershed. BMPs implemented in the watershed through this program will be reported on an annual basis throughout the grant period.	USC	Milestone Met	<p>2020 Update: The final report for this grant was submitted in May 2020. The riparian technician coordinated planning and implementation of RFBs through CREP and Trees for Tributaries. The buffer steward program was further developed with help from the buffer technician, and more volunteer planting events were coordinated. Funding this position led to the USC’s contribution to newsletters, local newspapers, and to events. The buffer tracking tool was maintained by the buffer technician and reporting to the Chesapeake Bay took place of all project activities. Overall, this funding contributed to increased implementation of riparian buffers and a better understanding of available buffer programs. As a result of this funding for the USC Buffer Coordinator, the USC was able to facilitate and support approximately 100 acres of Riparian Forest Buffer implementation. This milestone is complete.</p>

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					<p>2021 Update: Additional USFS funding was allocated to the USC for technical assistance with a new agreement. With that funding, buffer technical assistance was supported in Cortland County. To date, 11 riparian buffer plans were completed and implemented aside from CREP. For CREP, one plan was developed and implemented during this time, and this project was a re-enrollment of 4.5 acres. Several educational articles related to buffers were developed and distributed.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
09/30/2020	<p>Integrated Watershed Approach for Improved Headwaters Water Quality</p> <p>(This project is supported by the 2017 NFWF INSR grant awarded \$877,210)</p>	<p>This project will address nutrient and sediment loading from stream corridor and riparian areas by utilizing stream, wetland, and buffer restoration techniques on public and private rural lands in the watershed, as well as working with producers to exclude livestock and promote grazing practices that take into consideration riparian areas and their importance. Major outputs include restoration of 10 acres of wetland, rehabilitate 5,000 feet of stream, plant 100 acres of riparian buffers, implement grazing practices including cattle exclusion to protect and stabilize the riparian corridor and adjacent upland areas.</p>	USC	Milestone Met	<p>2020 Update: The USC requested an extension for this funding and has yet to receive written confirmation on the extension, although there has been verbal acknowledgement. The USC is working on developing the final report for this funding as >90% of the funds have been expended to date. To date, the implemented projects correlate to the following deliverables from 2017 to 2020:</p> <ul style="list-style-type: none"> – 173.11 acres of riparian buffer – 11.8 acres of wetland activity – 6,598 acres of stream corridor rehabilitation – 720.68 acres of rotational grazing. <p>This funding helped to further develop what is now referred to as the “USC Water Quality Program” and has filled gaps with project implementation through traditional agricultural</p>

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					<p>programs on 32 projects across 9 counties (8 in NY, 1 in PA). BMPs will be inspected and verified by random sampling process used for BMP verification, as outlined in the NPS QAPP.</p> <p>This milestone is considered complete.</p>
12/31/2021	Soil health implementation and outreach	<p>This is an ongoing effort to promote the widespread use of soil health practices and demonstrate effective outreach programs for delivering technical assistance to small dairies implementing whole farm strategies to reduce nutrient and sediment loss. BMPs implemented in the watershed as a result this program will be reported on an annual basis.</p>	USC	Milestone Met	<p>2020 Update: The following outreach programs were conducted during the milestone period:</p> <ul style="list-style-type: none"> • January 14-16th, NE Pasture Consortium Annual Meeting in Vermont (80) • February 25, SCNY CCE dairy grazing meeting in Onondaga County (30 farmers) • February 26, 5th annual Progressive dairy grazing meeting (300 farmers & sold out!) <p>The USC continues to support cover crops, nutrient management, and tillage practices through the future use of the Online Tracking App that will be developed, as well as pursuing additional funding for implementation.</p> <p>2021 Update: The USC continues to support cover crops, nutrient management, and tillage practices through current funding opportunities and technical assistance through SWCDs. We also continue to seek out additional funding opportunities to support these practices. The future USC Online Tracking Application (currently under development) will assist in tracking these related practices for inclusion into the USC Online Database Tool for reporting to the CB Model.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>

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12/31/2020	Upper Susquehanna Agricultural BMP Implementation (This program is supported by 2016 RCPP funding from USDA-NRCS)	Hold sign-up for additional EQIP practices using funding from the Regional Conservation Partnership Program. In 2020, plan to hold a Round 3 of signups for water quality improvement practices. SWCD staff are currently working on design and implementation of previously contracted projects.	USC, NRCS	Milestone Met	<p>2020 Update: The USC received an extension on the RCPP funding due to original contract being signed almost a full year late. The contract end date is now 12/31/2021.</p> <p>The USC held its 3rd application round for RCPP. This round focused again on Farmstead practices. 13 applications were received in August 2020. All farms have had initial site visits completed and plans are currently under review. Previously contracted projects are either finishing up designs, under construction, or completed. The USC plans to expend all Financial Assistance funds by the end of 2021.</p> <p>2021 Update: In 2021, the USC completed its 3rd application round focusing on farmstead practices. With 13 applications received in Fall of 2020, the USC would be short on funding to cover contracts of all farms that ranked. The USC requested additional finding from NRCS Headquarters through the NRCS State Office. This requested resulted in a partial funding award, which allowed us to contract with 5 farms. The USC has contracted or expended all Financial Assistance funds, with the exception of a small portion being held by NRCS for contract modifications. All Technical Assistance funds will be expended by 12/31/2021. Our current RCPP agreement ends on 12/31/2021 and the final reporting is underway. In summer of 2021, the USC submitted an RCPP Renewal Proposal to continue to provide funding for Water Quality Improvement Projects in the watershed. This proposal was tentatively approved pending work plan and PPA approval and signatures by</p>

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					NRCS which was expected to be completed by 12/31/2021. This milestone will continue in the 2022-2023 milestones.
12/31/2020	Sustainable Streamside Buffer Establishment in the Upper Susquehanna (NY) (This project is supported by the 2018 NFWF CB Stewardship Grant)	This project will support the Upper Susquehanna Coalition Buffer Program to plant additional riparian buffer acreage and facilitate management on riparian buffer practice acres. This project will educate and manage riparian buffer stewards to evaluate and assess buffers throughout the watershed to determine plant survival and management needs and facilitate management activities. Deliverables include; 14 acres of buffer implementation, and evaluate 600 acres of existing riparian buffer, steward 300 acres.	USC	Milestone Met	2020 Update: In 2020, USC partner SWCDs hired 8 stewards that completed assessments on over 640 acres of riparian forest buffer. Management activities were also completed during this time period on over 640 acres as well. No new acreage was implemented using this funding source, but a project was initiated and is anticipated to be completed in spring, 2021. That project will add another 4-5 new acres of riparian forest buffer. 2021 Update: Soil and Water Conservation Districts hired buffer steward (interns) to perform RFB plant survival assessments on 1,418.14 acres and establishment activities on 1,117.45 acres. This project laid the framework for what RFB stewardship looks like and how to deliver large scale technical assistance on RFB establishment. RFB stewardship was performed within 8 counties in NY, 212 sites were assessed, 24.78 acres of CREP area was made eligible for re-enrollment through stewardship, and 15.9 acres of RFB was newly planted, aside from CREP. This milestone is considered complete.
9/30/2021	Expanding Engagement in the Upper Susquehanna Coalition Buffer Program	Expand and engage new partners and populations in the Upper Susquehanna Buffer Program. This project will build outreach opportunities and engage populations that have yet to be engaged	USC	Milestone Met	2020 Update: Over 10 acres of riparian forest buffer were implemented in fall of 2020, with preparations made for spring 2021 implementation performed at several other sites. The USC led the development of a Kettle Lakes Newsletter for that region and sent out

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	(This program is supported by the 2019 NFWF CB Small Watershed Grant)	in pilot projects incorporating riparian restoration, livestock exclusion, agricultural land retirement, green infrastructure, and natural stream corridor restoration. Deliverables include 10 acres of grass buffer and 25 acres of forest buffer, engage with 150 landowners and recruit 20 volunteers, as well as implement 2 pilot natural infrastructure projects in the Upper Tioughnioga Watershed.			<p>385 newsletters through mail and also posted the newsletter on the USC Facebook page and website. The USC is contracted with their partners to implement over 30 acres of riparian forest buffer through this funding source. Cortland SWCD is implementing tree planting projects as part of their natural infrastructure projects within the Tioughnioga Watershed.</p> <p>2021 Update: This project ends 12/31/2021. To date this project has implemented 45 acres of riparian forest buffer, over 4,000' of stream corridor restoration and 15 acres of grazing. Additionally, this project was developed to present alternative programming to CREP for buffer implementation and protection. Therefore, a total of 94.96 acres were put into a conservation easement with assistance from this funding, with 43 of that acreage having special use zones for riparian and wetland areas. Matching funds for this program came from the NYS DEC, volunteers, landowners, NYS Department of Ag and Mkts, the PA DCNR and Finger Lakes Land Trust. Through newsletters, newspapers, social media, webinars and open houses, we anticipate reaching over 10,000 people. Volunteers participated in low numbers through multiple events, with at least 160 participating in tree planting efforts.</p> <p>This milestone is considered complete.</p>
12/31/2021	NYS funding for non-agricultural nonpoint implementation through the Water Quality Improvement	Implement two rounds of the NYS Water Quality Improvement Project (WQIP) Program This program is funded through New York's Environmental Protection Fund (EPF). \$6 million of	NYSDEC	Milestone Partially Missed (due to COVID-19, only one	2020 Update: As of December 2020, Round 17 of the WQIP program has not been announced due to funding challenges during COVID-19 pandemic. It is expected that the next round of WQIP will be released in 2021.

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	Project (WQIP) Program (P.120)	statewide funding is proposed in the SFY 2020-2021 budget. In the last milestone period, seven nonpoint source implementation projects were awarded, totaling \$1.29 Million and are expected to be implemented by 2021.		round of funding was released during the milestone period)	<p>2021 Update: In December 2021, Round 17 of the WQIP program was awarded. The following projects were awarded in the Chesapeake Bay Watershed:</p> <ul style="list-style-type: none"> • Cortland County SWCD – Chesapeake Bay Culvert Rehabilitation (\$400,000) • Cortland County SWCD – Trout Brook Stream Corridor Stabilization and Erosion Control (\$769,000) <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	NYS funding for non-agricultural nonpoint project planning and design through the Nonpoint Source Planning Grant (NPG)	Implement two rounds of the Nonpoint Source Planning Grant (NPG) program. This program is funded through New York’s Environmental Protection Fund (EPF). \$1 million of statewide funding is proposed in the SFY 2020-2021 budget. In the last milestone period, a road culvert assessment study was awarded for \$30,000 and is expected to be completed by 2021.	NYSDEC	Milestone Partially Missed (due to COVID-19, only one round of funding was released during the milestone period)	<p>2020 Update: As of December 2020, Round 2 of the NPG program has not been announced due to funding challenges during COVID-19 pandemic. It is expected that the next round of NPG will be released in 2021.</p> <p>2021 Update: In December 2021, Round 2 of the NPG program was announced. The following projects were awarded in the Chesapeake Bay Watershed:</p> <ul style="list-style-type: none"> • Cortland County SWCD – Hoxie Gorge Stream Corridor Stabilization and Erosion Control Study (\$30,000) • Village of Cooperstown – From Alleys to Otsego Lake Stormwater Project (\$30,000) <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	NYS funding for green infrastructure projects to reduce stormwater impacts through the Green	Implement two rounds of the Green Infrastructure Grant Program (GIGP). This program is funded through New York’s Environmental Protection Fund (EPF). \$15 million was awarded in 2019	NYS DEC	Milestone Met	<p>2020 Update: On December 23rd, 2020, the announcement for the current GIGP round was made. \$17 million is available to be awarded throughout the State. The deadline for applications is in February 2021.</p>

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	Infrastructure Grant Program (GIGP) (P.119)	and a similar level of funding is expected in 2020 and 2021. In the last reporting period, three GIGP projects were awarded \$1.76 million and are expected to be completed by 2021.			<p>2021 Update: In the 2020 round of GIGP, two projects were funded:</p> <ul style="list-style-type: none"> • The City of Binghamton was awarded \$330,000 for Deco District Green Infrastructure to revitalize a downtown streetscape. The installation of stormwater street trees and bioretention will help to improve the water quality of the Chenango and Susquehanna Rivers. This is an Environmental Justice Community project. • The City of Norwich was awarded \$1 million to upgrade aging water meters with new advanced metering infrastructure. The new water meters will increase the City's water efficiency, which was estimated to have had over 40% of water produced unaccounted for in 2019. This is an Environmental Justice Community project. <p>In the 2021 round of GIGP, one project in the watershed was funded:</p> <ul style="list-style-type: none"> • The Village of Sidney was awarded \$480,000 in GIGP funds to install water meters equipped with Advanced Meter Reading technology. These new meters will encompass the entire Village, which is currently unmetered. <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2020	Expand BMP reporting through new developed BMP database (P. 124)	DEC is in the process of developing a new database for developed sector BMPs. The completed urban BMP database will be used to track and verify construction stormwater BMPs	NYSDEC	Milestone Met	<p>2020 Update: The database is continuing to be developed as of December 2020. 2020 BMP progress was assembled and submitted outside of the database. The BMP reporting templates for the database were used to help complete</p>

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		(including erosion and sediment control acres and post-construction BMPs), BMPs implemented by MS4 and non-MS4 communities, including good housekeeping practices such as catch basin clean outs and street sweeping. Lastly, the database will also be used to track forestry BMPs, including private and public lands timber harvesting erosion and sediment control and urban forestry BMPs. The goal will be to have a fully-functional database by deadline for submittal of 2020 BMP data.			<p>the 2020 BMP progress submission and it is expected that the database will be completed and used for 2021 progress submission.</p> <p>2021 Update: DEC successfully submitted 2021 progress to the Chesapeake Bay Program using the NPS database.</p> <p>This milestone is considered complete.</p>
12/31/2019	Expand BMP reporting and verification (P.124) through partnership with Regional Planning Boards	NYSDEC will work with two regional planning boards to collect developed BMP data in both MS4 regulated communities and non-regulated communities. BMP data collection outside of non-regulated communities will include new urban forestry BMPs. All urban stormwater will be converted to NEIEN-compliant format for the 2020 and 2021 Progress Runs and reported to the Bay Program by the December 1 st deadline.	NYSDEC	Milestone Met	<p>2020 Update: A BMP tracking template was created that can be uploaded to the NPS database and reported to NEIEN. During 2020 progress, the Regional Planning Boards were able to report progress on BMPs from non-regulated communities that were previously unreported.</p> <p>2021 Update: BMPs were successfully reported from Southern Tier Central Regional Planning Board and Southern Tier 8 Regional Planning Board into the NPS database for 2021 progress.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	Expand BMP reporting and verification (P.124) through development	Using 2020 WIP assistance funding, NYSDEC will work with Tetrattech to develop statistically survey procedures to be used in New York’s developed BMP verification protocols. Tetra Tech will focus on employing statistics to	NYSDEC	Milestone Met	<p>2020 Update: Tetra Tech is on track to completing the statistical survey procedures that will be used to verify urban stormwater BMPs. These procedures will be included in a future update of NY’s QAPP. It is expected that this project will be complete in 2021.</p>

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	of statistically survey procedures	validate the existence and performance of BMPs where large implementation numbers make verification of every BMP unrealistic. After statistical procedures have been developed, Tetra Tech will complete an assessment of how the draft procedures align with existing NY protocols, and provide recommendations for implementation.			<p>2021 Update: Tetra Tech completed this project. The 2021 QAPP was updated to include statistical survey procedures.</p> <p>This milestone is considered complete.</p>
12/31/2021	Compliance and enforcement of MS4 communities, industrial stormwater and construction sites (P.100) through New York Phase II Stormwater Program	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYSDEC	Milestone Met	<p>2020 Update: DEC conducted 8 inspections at MS4s and 49 inspections at construction stormwater sites in the watershed. DEC conducted one compliance assurance meeting and responded to 6 complaints for construction stormwater sites. DEC issued 4 notice of violations for construction sites stormwater and one notice of violation for a MS4 in 2020.</p> <p>2021 Update: DEC conducted 5 inspections at MS4s and 54 inspections at construction stormwater sites in the watershed. DEC conducted 6 compliance assurance meeting and responded to 4 complaints for construction stormwater sites. DEC issued 6 notice of violations for construction sites stormwater and one notice of violation for a MS4 in 2021.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>

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12/31/2020	MS4 general permit update (P.101)	DEC will work with EPA through the established coordination process before the draft MS4 permit is released for public comment to ensure consistency with New York’s Watershed Implementation Plan.	NYSDEC	Milestone Missed	<p>2020 Update: The draft permit is still under internal DEC review.</p> <p>2021 Update: The draft permit is still under internal DEC review.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	Expanding Wetland Work in the Upper Susquehanna River Watershed (This project is supported by a NYSDEC WQIP Grant)	Through this project, the USC Wetland Team and partners will strive to increase private landowner participation in wetland restoration through education and outreach along with the physical restoration of wetlands throughout the Upper Susquehanna River Watershed. Deliverables include restoring 36 acres of wetland and enrolling 20 acres of wetlands in partner programs.	USC	Milestone Met	<p>2020 Update: Wetland work expansion efforts are ongoing throughout the watershed, with Wetland Team members actively working to identify, design, permit, and construct sites. The team is in the process of identifying potential work areas using a watershed-wide GIS analysis. This analysis will result in potential sites being identified, mapped and ranked on a variety of factors with the goal being to develop a list of top priority sites, and the landowner contact information for each site that can be provided to county partners. While other GIS analyses are available, the wetland team feels that by connecting identified individual sites with potential acreages and county-based rankings, county soil and water partners will have a greater opportunity to pursue sites on the list, and an excellent tool for initiating landowner contact and educating them about restoration opportunities. This year, the USC completed 2.89 acres of wetland construction and 14.43 were enrolled in other programs as a result of the grant.</p> <p>2021 Update: Significant progress was made towards this project in 2021, with a review of wetland restoration opportunities on municipally owned land, ranking and mapping of potential wetland sites using ArcGIS, and the</p>

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					<p>construction on 7 sites totaling 16 acres of wetland restoration, and another 1.6 acres of work on partner sites. Follow-up planting of two of those sites will occur in spring 2022, coupled with remapping and reevaluation of several 2020 sites, brings the total restoration acreage completed through this project to 19.39, and the total partner programs sites to 18.83 acres. With another 33 acres of sites under review for 2022, it should be another year of significant activity towards this project. In addition, GIS analyses will continue as part of this project, identifying sites and then working through desktop review and landowner contact to further expand our restoration opportunities list.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	Modify Significant facility permits (P.84-85, 91)	NYSDEC will initiate permit modifications for 32 Significant facilities to include 2025 wasteload allocations and concentration limits. Permits that are up for renewal have been or are in the process of being modified with 2025 wasteload allocations. The remaining permits will be modified together as a mass modification during the milestone period. The number of permits modified will be reported on an annual basis.	NYSDEC	Milestone Met	<p>2020 Update: Since the release of WIP III, three significant facilities, Binghamton Johnson City wastewater treatment plant, Village of Owego WWTP, and Village of Bath WWTP, have received permit modifications.</p> <p>2021 Update: During 2021, 7 permit modifications for significant facilities were completed. Facilities include:</p> <ul style="list-style-type: none"> • Alfred WWTP • Chemung County Regional WWTP • Chemung County Sewer District No. 1 • Village of Hamilton WPCP • City of Hornell WPCP • Town of Erwin WWTP • Village of Greene WWTP

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					<p>The permit modification process has been initiated for the remaining Significant facilities and will be completed during the next milestone period.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2020	Reconstruction of Binghamton-Johnston City wastewater treatment plant (P.92)	Oversee compliance with consent order that outlines the schedule of construction and dates for achieving effluent limits. The treatment plant is expected to meet final effluent limits in 2020.	NYSDEC	Milestone Met	<p>2020 Update: The reconstruction project is now complete. DEC issued a final permit for the facility in July 2020.</p> <p>This milestone is considered completed.</p>
12/31/2021	Continue to use EPA's Integrated Compliance Information System (ICIS) (P.81)	Continue to use the ICIS data management system to submit individual SPDES permit data as appropriate.	NYSDEC	Milestone Met	<p>2020 Update: During calendar year 2020, DEC entered individual SPDES permit data into the ICIS database as appropriate.</p> <p>2021 Update: During calendar year 2021, DEC entered individual SPDES permit data into the ICIS database as appropriate.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	Compliance and enforcement of wastewater permits (P.81-82)	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYSDEC	Milestone Met	<p>2020 Update: During the state fiscal year 2020, DEC conducted 38 inspections on Bay Significant facilities and 56 inspections on Bay Non-significant facilities. Compliance assurance meetings were held with 12 facilities. DEC issued 3 complaint responses and 6 notice of violations.</p> <p>2021 Update: During the state fiscal year 2021, DEC conducted 24 inspections on Bay Significant facilities and 16 inspections on Bay Non-significant facilities. Compliance assurance</p>

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					<p>meetings were held with 12 facilities. DEC issued 2 complaint responses, a consent order, and 3 notice of violations.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	NYS funding for wastewater treatment improvement through the Water Quality Improvement Project (WQIP) Program (P.120)	Implement two rounds of the NYS Water Quality Improvement Project (WQIP) Program This program is funded through New York’s Environmental Protection Fund (EPF). \$6 million of statewide funding is proposed in the SFY 2020-2021 budget. In the last milestone period, \$4.63 million was awarded for three nutrient reduction projects at facilities in the watershed that are expected to begin construction by 2021.	NYSDEC	Milestone Partially Missed (due to COVID-19, only one round of funding was released during the milestone period)	<p>2020 Update: As of December 2020, Round 17 of the WQIP program has not been announced due to funding challenges during COVID-19 pandemic.</p> <p>The following significant wastewater facilities are under contract for nutrient upgrades through WQIP:</p> <ul style="list-style-type: none"> • Chenango Northgate WWTP – \$1,000,000 for enhancing nutrient removal • Owego (T) SD#1 WPCP - \$2,148,000 for upgrading facility to meet nutrient limits • Bath WWTP - \$1,000,000 for upgrading facility to meet phosphorus reductions <p>2021 Update: Round 17 awards was announced in December 2021. The following facilities will be under contract for nutrient upgrades through WQIP:</p> <ul style="list-style-type: none"> • Village of Endicott WWTP – Sanitary Sewer II Removal Project Phase 1 (\$602,320) • Chemung County Sewer Districts – Wastewater Treatment Plant Consolidation Project (\$10,000,000) • Village of Sidney WWTP – Wastewater Infrastructure Improvements (\$) • Town of Bath WWTP – Lake Salubria Sewer Construction (\$)

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					This milestone will continue in the 2022-2023 milestones.
12/31/2021	NYS funding for wastewater treatment improvement project planning and design through the DEC/EFC Wastewater Infrastructure Engineering Planning Grant (EPG)	Implement two rounds of the DEC/EFC Wastewater Infrastructure Engineering Planning Grant (EPG). In the last milestone period, \$480,000 was awarded to eleven facilities in the watershed for wastewater planning and designs that are expected to be completed by 2021.	NYSDEC/EFC	Milestone Partially Missed (due to COVID-19, only one round of funding was released during the milestone period)	<p>2020 Update: On December 23rd, 2020, the announcement for the current EPG round was made. \$2 million is available to be awarded throughout the State. The deadline for applications is in February 2021.</p> <p>2021 Update: Round 11 awards was announced in December 2021. The following facilities will be under contract for engineering plans for nutrient upgrades or inflow/infiltration study through EPG:</p> <ul style="list-style-type: none"> • City of Binghamton First Ward Inflow and Infiltration Study (\$50,000) <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	Track upgrades for facilities	Track upgrades for enhanced nutrient removal for significant and non-significant facilities through existing wastewater grant programs.	NYSDEC/EFC	Milestone Met	<p>2020 Update: The following facilities are currently under contract for engineering or implementation of nutrient upgrades or facility improvements:</p> <p>Engineering Planning Grants:</p> <ul style="list-style-type: none"> • Corning (C) WWTP - \$30,000 • Chenango Northgate WWTP – \$30,000 • Endicott (V) WPCP – \$100,000 • Norwich (C) WWTP – \$30,000 • Owego (V) STP – \$30,000 • Canisteo (V) STP – \$23,500 • Chemung Co Elmira SD STP – \$50,000 • Bainbridge (V) WWTP (non-significant) – \$30,000

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					<p>Water Quality Improvement Project:</p> <ul style="list-style-type: none"> • Chenango Northgate WWTP – \$1,000,000 • Owego (T) SD#1 WPCP - \$2,148,000 • Bath WWTP - \$1,000,000 • Cooperstown WWTP - \$1,000,000 <p>Homes and Community Renewal - Community Development Block Grant:</p> <ul style="list-style-type: none"> • South Corning (V) - \$1,000,000 • Jasper (T) WWTP (non-significant) - \$832,850 • Town of Woodhull <p>2021 Update: The following facilities are currently under contract for engineering or implementation of nutrient upgrades or facility improvements:</p> <p>Engineering Planning Grants:</p> <ul style="list-style-type: none"> • Corning (C) WWTP - \$30,000. Completed 2021. • Chenango Northgate WWTP – \$30,000. Completed 2021. • Endicott (V) WPCP – \$100,000 • Norwich (C) WWTP – \$30,000 • Owego (V) STP – \$30,000 • Canisteo (V) STP – \$23,500. Completed 2021. • Chemung Co Elmira SD STP – \$50,000 • Bainbridge (V) WWTP (non-significant) – \$30,000 • City of Binghamton First Ward Inflow and Infiltration Study - \$50,000

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					<p>Water Quality Improvement Project:</p> <ul style="list-style-type: none"> • Chenango Northgate WWTP – \$1,000,000 • Owego (T) SD#1 WPCP - \$2,148,000 • Bath WWTP - \$1,000,000 • Cooperstown WWTP - \$1,000,000 • Village of Endicott WWTP – \$602,320 • Chemung County Sewer Districts – \$10,000,000 • Village of Sidney WWTP –\$2,038,750 • Town of Bath WWTP – \$3,798,175 <p>Homes and Community Renewal - Community Development Block Grant:</p> <ul style="list-style-type: none"> • South Corning (V) - \$1,000,000 • Jasper (T) WWTP (non-significant) - \$832,850 • Town of Woodhull WWTP (non-significant) - \$1,000,000. Completed 2021. <p>This milestone will continue in the 2022-2023 milestones.</p>
12/31/2021	Track trading amount individual SPDES	Track nutrient trades among Significant wastewater facilities and modify permits accordingly.	NYSDEC	Milestone Met	<p>2020 Update: No requests for nutrient trades among Significant wastewater facilities were received in 2020.</p> <p>2021 Update: No requests for nutrient trades among Significant wastewater facilities were received in 2021.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>

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12/31/2021	Identify and report offsets	Identify facilities that secured offsets by assimilation of existing septic systems or consolidation with other facilities.	NYSDEC	Milestone Met	<p>2020 Update: No facilities secured offsets by assimilation of existing septic systems or consolidation with other facilities in 2020.</p> <p>2021 Update: No facilities secured offsets by assimilation of existing septic systems or consolidation with other facilities in 2021.</p> <p>This milestone will continue in the 2022-2023 milestones.</p>

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Numeric Milestones

Best Management Practices	BMP Type	Unit	2020 Milestone	2020 Progress	2021 Milestone	2021 Progress	Milestone Program/Funding Sources
Nutrient Management Core N & P	Annual	Acres	88,000	99,263	96,000	114,884 (120% achieved)	<ul style="list-style-type: none"> • Agricultural Nonpoint Source Abatement and Control Program (AgNPS) • Climate Resilient Farming (CRF) • Cornell Dairy Acceleration Program (DAP) • CAFO Compliance • Enhanced BMP reporting (2020 WIP Assistance)
Nutrient Management Rate, Timing, Placement N & P	Annual	Acres	82,000	Average: 82,506	92,000	Average: 99,326 (108% achieved)	
Cover Crops	Annual	Acres	14,000	12,350	15,000	18,303 (122% achieved)	<ul style="list-style-type: none"> • Agricultural Nonpoint Source Abatement and Control Program (AgNPS) • Climate Resilient Farming (CRF) • USC Cover Crop Implementation Program • Enhanced BMP reporting (2020 WIP Assistance) • Agricultural Nonpoint Source Abatement and Control Program (AgNPS) • Climate Resilient Farming (CRF) • Comprehensive Riparian Buffer Establishment in the Susquehanna River Basin Program • Susquehanna Watershed Riparian Buffer Enhancement Project • Expanding Engagement in the Upper Susquehanna Coalition Buffer Program
Forest Buffers on Fenced Pasture Corridor	Cumulative	Acres	2,500	2,058	2,900	2,049 (71% achieved)	
Grass Buffers on Fenced Pasture Corridor	Cumulative	Acres	1,300	1,166	1,500	1,159 (77% achieved)	
Forest Buffers	Cumulative	Acres	1,350	1,003	1,650	1,520 (92% achieved)	
Grass Buffers	Cumulative	Acres	470	405	540	235 (44% achieved)	

New York Chesapeake Bay Restore Clean Water Action Items
2020-2021 Programmatic and Numeric Milestones – 2021 Final Progress

Best Management Practices	BMP Type	Unit	2020 Milestone	2020 Progress	2021 Milestone	2021 Progress	Milestone Program/Funding Sources
Soil and Water Conservation Plan	Cumulative	Acres	210,000	186,978	250,000	189,076 (76% achieved)	<ul style="list-style-type: none"> • Agricultural Nonpoint Source Abatement and Control Program (AgNPS) • Climate Resilient Farming (CRF) • Enhanced BMP reporting (2020 WIP Assistance)
Livestock Waste Management Systems	Cumulative	Animal Units	79,700	82,920	83,800	93,651 (112% achieved)	<ul style="list-style-type: none"> • Agricultural Nonpoint Source Abatement and Control Program (AgNPS) • Climate Resilient Farming (CRF) • CAFO Compliance
Dairy Precision Feeding	Annual	Animal Units	12,600	12,721	13,000	15,291 (118% achieved)	<ul style="list-style-type: none"> • Agricultural Nonpoint Source Abatement and Control Program (AgNPS) • Cornell Dairy Acceleration Program (DAP) • Enhanced BMP reporting (2020 WIP Assistance)
Reconstruction of Binghamton-Johnston City wastewater treatment plant		Nitrogen reduction at edge of tide (lbs/yr)	382,772	243,275	382,772	281,704 (Total: 524,979, 137% achieved)	<ul style="list-style-type: none"> • Wastewater Compliance