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| Logo  Description automatically generated | **North Carolina Department of Environmental Quality** |  |
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| **Priority Rating System Guidance and Form for Division of Water Infrastructure**  **Construction Funding Programs**  (Not including CDBG-I)  Spring 2025 |
|  | (Last updated: March 2025) |

This guidance aids the applicant in understanding and implementing the Priority Rating System (PRS) when applying for funding from the following programs administered by the Division of Water Infrastructure (DWI) for drinking water and wastewater construction projects:

* Clean Water State Revolving Fund (CWSRF) (including Green Project Reserve)
* Drinking Water State Revolving Fund (DWSRF)
* Wastewater State Reserve (WWSR)
* Drinking Water State Reserve (DWSR)
* Bipartisan Infrastructure Law (BIL) Emerging Contaminants (EC) Funds (construction only)
* Viable Utility Reserve (VUR)

**Use this guidance only for applications seeking funding for drinking water (DW) and wastewater (WW) construction projects through these programs.**

The following programs have separate guidance and are not covered in this guidance:

* Drinking Water Emerging Contaminants studies
* Community Development Block Grant – Infrastructure
* Local Assistance for Stormwater Infrastructure Investments (stormwater)
* Lead Service Line Replacement Funding Program
* Asset Inventory and Assessment grants, Merger/Regionalization Feasibility grants

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**Priority Rating System Guidance**

1. Submittal Requirements
   1. General Information to Remember

* Request all the priority points you want to receive. DWI does not award unrequested priority points, other than as specified in this guidance document.
* Submit all required supporting documentation for the requested priority points as part of the narrative. DWI will not request additional information or documentation and will determine priority points based solely on the information submitted.
* In the narrative, provide the page number or clear reference to a specific page in the supporting documentation to support the claim for priority points for each line item, if applicable. This enables a more efficient review. Points may not be awarded if documentation cannot be located by reviewers.
* Where the guidance requires summaries in the narrative, provide only additional relevant information. For example, Line Item 3.A.1 requires a summary of an asset management plan, plus a Capital Improvement Plan (CIP) matrix with the project highlighted and associated resolution showing adoption of the CIP. Do not provide the entire asset management plan/asset registry as part of supporting documentation.
* DWI reviews each application as a stand-alone application. DWI will not search other applications from the same applicant for missing information. Provide all relevant information in each application, even if it is submitted in a different application.
* Be sure each copy of the application and each application includes all required or relevant information.

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* 1. Priority Rating System Score Sheet

**A completed PRS score sheet form must be submitted with the funding application**. There are two different PRS score sheets at the end of this document. Be sure to use the one that is appropriate for the system type (wastewater or drinking water). To claim points for a particular line item, mark “X” on the score sheet. For each point category, provide the subtotal of points claimed on the score sheet.

Line items applicable to BIL Drinking Water State Revolving Fund Emerging Contaminants construction (DWSRF-EC-C) and BIL Clean Water State Revolving Fund Emerging Contaminants Construction (CWSRF-EC-C) funding are marked in the score sheet. A project must get Line Item 1.J points to be considered for DWSRF-EC-C funds. Project must receive Line Item 2.H.3 or 2.H.4 points to receive funds from BIL-CWSRF-EC-C funds. Projects requesting funding from the BIL-SRF-EC funding programs as well as the base SRF program can use the single application and score sheet and claim all related points including EC eligible line items. DWI staff will sum up total points for the EC funding and SRF funding separately.

* 1. Priority Rating System Narrative

**A PRS narrative, along with supporting documentation as required by this guidance, must also be submitted with the funding application.** The narrative is part of the application. Follow the outline in Table 1 below; the categories correspond to the categories in the Priority Rating System score sheet. Address every applicable line item.

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| **Table 1. Basic Outline for Project Narratives** | |
| Category 1 | Project Purpose |
| Category 2 | Project Benefits |
| Category 3 | System Management |
| Category 4 | Affordability |

* The narrative must be consistent with information in the Division of Water Infrastructure Application for Funding (DWI Application), Water/Sewer Financial Information Form, and other supporting information.
* The narrative must be completed to provide for accurate rating, and concise enough that critical information is not lost in unnecessary text. Text should only provide information related to this Priority Rating System (e.g., do not describe other benefits that are not included in the Priority Rating System).
* If there are no applicable points in any given category, state that there are no applicable points under that heading.
* When the narrative is supported with additional documentation, please reference a page number, section number, or other clear reference to the page location to aid staff in finding the specific part of the supporting documentation relevant to each line item in the narrative.
* Maps are very useful in determining priority points. Maps should include sufficient labels of geographical references and be at a readable scale. Individual line items may require specific maps as listed below. Include maps in the supporting documentation file.

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1. Priority Rating System Narrative Guidance
   1. **Category 1 – Project Purpose**

An application can earn points in Category 1 based on the Project Purpose as documented in this section. **Although a project may serve several purposes, an application can earn points for only one Project Purpose.** If you are unsure of how to classify the application, please contact DWI staff.

**Important to Remember**

To earn priority points for a Project Purpose, **all parts of the project must serve the claimed Project Purpose**. If any part of the project does not serve the higher-scoring Project Purpose, the application earns only the points for a lower-scoring Project Purpose that all elements of the project serve.

The project narrative must fully describe the proposed project and how each element serves the Project Purpose claimed on the PRS score sheet. The claimed Project Purpose must be consistent with all information provided in the common application (Section 6) and the budget (Section 8).

Although an application can earn points for only one Project Purpose (for example, Line Item 1.D), additional points for a sub-category (e.g., Line Item 1.D.1, replacing old infrastructure) may also be earned. An application cannot earn points for any other combination of Project Purposes.

**Important to Remember**

**Note:** Projects that do not receive Project Purpose points may still be eligible for funding.

For projects requesting funding from the BIL-SRF-EC funding programs as well as the base SRF program, claim the appropriate Project Purpose points for both programs. DWI staff will calculate scores for each program separately.

If the project does not qualify for the line item claimed under Category 1, it will be automatically considered for other project purpose line-item points (e.g., “rolls down”), provided all required documentation is provided. For example, if points are claimed for 1.B but the project does not qualify for those points, then the project will be considered for 1.C points, provided all required information for 1.C is provided.

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* + 1. Line Item 1.A – Project will Consolidate a Nonviable Drinking Water or Wastewater Utility

An application earns points if the application documents that the sole purpose of the project is to consolidate a nonviable public water supply or wastewater system.

**Points Available**

* Wastewater – 25 points
* Drinking Water – 25 points
* BIL EC Funds – Not Considered

Consolidation projects that earn priority points under this Line Item receive a number of benefits in priority review:

* Enhanced Principal Forgiveness – Such consolidation projects may receive 100 percent Principal Forgiveness or grant funding up to $3 million dollars regardless of the eligibility calculated based in the “Affordability” section.
* Other Priority Points – Such consolidation projects qualify for priority under Line Item 2.B.1 (for drinking water) or 2.C. (for wastewater).
* After-the-fact Application – An applicant is eligible for these consolidation points up to two years after the date of merger. Such an applicant must provide documentation showing date of merger.
* Best-applicant scoring – Such a consolidation project can receive priority points based on either the rescuing system or the nonviable system on a line item-by-line item basis (e.g., the rescuing system information will generally receive more Category 3 – System Management points, and the nonviable system data will generally receive more Category 4 – Affordability points).

Consolidations may involve water or wastewater systems that are owned by local government units (LGUs), non-profit water/wastewater corporations, investor-owned utilities, or other types of ownership models as long as the applicant is eligible to apply for DWI funding.

***Failing Drinking Water System***

For drinking water systems, *failing* means a water system that the Division of Water Resources’ (DWR) Public Water Supply (PWS) Section has determined as:

1. An unapproved public water system or a “grandfathered” public water system (i.e., a system that existed before current construction standards were established) that is not able to maintain compliance with current operational standards or maximum contaminant levels (MCL); or

**Important to Remember**

If you are interested in a project to eliminate a failing system, please contact the [Regional Office](http://deq.nc.gov/contact/regional-offices) of the Public Water Supply Section of the Division of Water Resources for the county in which the project is located.

1. An approved system whose source of water has become contaminated, and the system owner demonstrates inability to resolve a MCL violation due to a lack of technical, financial, or managerial capacity in accordance with the Safe Drinking Water Act, Sections 1420(b)(1) and 1414(h), and NCAC 15A 18C .0300.

*Required Documentation*

To document eligibility for such a project, the Chief of the DWR PWS will provide a letter that does the following:

* Identifies both the failing and acquiring systems by name and by PWSID Number; and
* States that the system to be consolidated is failing.

The application must document that both the failing system and the acquiring system are willing to undertake the proposed consolidation, such as the following:

* An interlocal agreement between the two systems (can be Draft),
* Minutes of a joint meeting showing the acquiring system’s interest,
* A Memorandum of Understanding (MOU) between the two systems,
* A letter from the acquiring system stating its interest, or
* Similar documentation.

The documentation must make clear that the project will eliminate the failing system by consolidating it into the acquiring system.

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| **Example Narrative for Line Item 1.A (Failing Water System)**  The Range Mobile Home Park water system (PWSID No. NC9902999) is failing due to improper construction of the waterlines resulting in frequent leaks that drain the hydropneumatic tank and shut down the system. The Range Mobile Home Park water system has lost pressure, and the related *E. coli* MCL violations have required boil-water notices 17 times in the last 5 years. The proposed project will eliminate the Range Mobile Home Park water system by consolidating it into the Town of Smallville system (PWSID No. NC9902998). The DWR-PWS Section Asheville Regional Office asked the Town of Smallville to consolidate the Range Mobile Home Park water system, and the Town of Smallville agreed. An agreement to consolidate the Range Mobile Home Park water system into the Town of Smallville water system has been drafted. Copies of the following are included:   * Correspondence from the DWR-PWS Section Chief stating that the Range Mobile Home Park is failing, and * The draft agreement between the Town and the owners of the Range Mobile Home Park. |

***Failing Wastewater System***

In this context, *failing* means a system that the DWR Water Quality Regional Operations Section has determined to be:

**Important to Remember**

If you are interested in a project to eliminate a failing wastewater system, please contact the of the [Water Quality Regional Operations Section](http://deq.nc.gov/contact/regional-offices) of Division of Water Resources for the county in which the project is located.

* 1. An unapproved wastewater system or a “grandfathered” wastewater system (i.e., a system that existed before current permitting construction standards were established) that is not able to maintain compliance with current operational standards or limits; or
  2. An approved system that is continuously out of compliance and the system owner demonstrates an inability to resolve the violation due to a lack of technical, financial, or managerial capacity.

*Required Documentation*

To document eligibility for such a project, the Chief of the Water Quality Regional Operations Section of DWR will provide a letter that does the following:

* Identifies both the failing and acquiring systems by name; and
* States that the system to be consolidated is failing.

The application must document that both the failing system and the acquiring system are willing to undertake the proposed consolidation, such as the following:

* An interlocal agreement between the two systems (can be Draft),
* Minutes of a joint meeting showing the acquiring system’s interest,
* A MOU between the two systems,
* A letter from the acquiring system stating its interest, or
* Similar documentation.

The documentation must make clear that the project will eliminate the failing system by consolidating it into the acquiring system.

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| **Example Narrative for Line Item 1.A (Failing Wastewater System)**  The Upside-Down Subdivision sewer system is failing due to deferred maintenance and improper construction. The Upside-Down Subdivision has been cited with 3 Notices of Violations (NOVs) for repeated SSOs in the last 3 years. The proposed project will eliminate the Upside Down Subdivision system by consolidating it into the Town of Winden. The DWR-WQRO Section Raleigh Regional Office asked the Town of Winden to consolidate the Upside-Down Subdivision system, and the Town of Winden agreed. An agreement to consolidate the Upside-Down Subdivision system into the Town of Winden sewer system has been drafted. Copies of the following are included:   * Correspondence from the DWR-WQRO Section Chief stating that the Upside-Down Subdivision sewer system is failing, and * The draft agreement between the Town and the owners of the Upside-Down Subdivision. |

***Nonviable System***

In this context, a *nonviable system* means a public water supply system or wastewater utility owned by a LGU that DWI has determined is nonviable **prior to the application deadline.**

To be determined to be nonviable, the applicant and the acquiring system must meet with the Division ***at least 30 days*** before the application deadline to discuss the current situation and the proposed application.

**Important to Remember**

If you are interested in a project to consolidate a nonviable system, please contact the Division of Water Infrastructure.

*Required Documentation*

The application must include documentation to show that both the nonviable system and the acquiring system are willing to undertake the proposed consolidation, such as the following:

**Important to Remember**

For a project that receives points under this line item:

* An application may use the financial information for either the nonviable or the acquiring system to calculate points under Category 4 – Affordability (see Section 2.4).
* An application may claim points under Category 3 – System Management based on the policies and actions of the acquiring system (see Section 2.3).
* An interlocal agreement between the two systems (can be Draft),
* Minutes of a joint meeting showing the acquiring system’s interest,
* A MOU between the two systems,
* A letter from the acquiring system stating its interest, or
* Similar documentation.

The documentation must make clear that the project will eliminate the nonviable system by consolidating it into the acquiring system.

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| **Example Narrative for Line Item 1.A (Nonviable System)**  The Town of Abandonado water system (PWSID NC1330786) is nonviable, as evidenced by the following:   * The Towns of Abandonado and Desarollo met with DWI on 15 April 2021 to discuss the need for the project.   + Abandonado stated it is unable to maintain the system with so few connections, and showed several Unit Assistance Letters from the Local Government Commission;   + Abandonado stated the system is nonviable;   + Desarollo stated its interest in acquiring the Abandonado system, once repaired. * The Town of Abandonado passed a resolution stating that its water system is nonviable, attached as Appendix F. * Abandonado’s CIP has identified the funding source for the water treatment plant rehab project as “successful grant application” and scheduled the project “next year” for the past seven years.   + Abandonado only applied for that grant three of those seven years.   + Despite that capital planning, Abandonado has not been maintaining its water infrastructure, and spent no money on planned capital expenditures (only emergency repairs) in the past seven years. * Abandonado’s Operating Ratio has not exceeded 0.95 in the past 5 years. Copies of the audit pages and calculations appear as Appendix G. * Considering depreciation, Abandonado’s Operating Ratio has not exceeded 0.75 in the past 5 years. Copies of the audit pages and calculations appear as Appendix H. * Attached as Appendix I is an engineer’s calculation that Town of Abandonado customers would be charged an extra $55/month (for a total of $110/month) to pay off a zero interest 20-year loan for this project – assuming no other capital improvements are needed. * Other capital improvements are needed. The Town must replace most of the waterlines downtown, at approximately the same cost as this project. The combined rate impact of these two projects would triple the water rate (See Appendix J for the engineer’s calculations).   The Memorandum of Understanding between Abandonado and Desarollo (which will take over the system after this project) is also attached as Appendix K. |

The application must include a resolution by the governing board of the nonviable system stating that the system is nonviable and explaining why. This resolution may use the template provided by the Division.

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* + 1. Line Item 1.B – Project Will Resolve Failed or Failing Infrastructure Issues

Project applications eligible for these points may include:

**Points Available**

* Wastewater – 20 points
* Drinking Water – 22 points
* BIL EC Funds – Not Considered
* Physical extension of water or wastewater infrastructure to connect facilities that are using failing systems;
* Decentralized systems to serve clusters of facilities that are using failing onsite water or wastewater infrastructure; decentralized systems must be owned, operated, and maintained by the public utility; or
* Repair or replacement of failing onsite systems, with the public utility assuming ownership and maintenance of the onsite systems within the service area

An application earns points if the sole purpose (100% of the construction costs) of the project is to resolve failed or failing infrastructure. Projects must only include connections or service to properties with documentation of failed or failing infrastructure.

* Projects that include connections or service to properties without documentation of failed or failing infrastructure at those properties are not eligible for these points, unless specified otherwise below.
* Projects that provide connections or service to properties with documented failed or failing infrastructure that are part of a larger project seeking funds may be eligible for Category 2 Project Benefit priority points.

***Wastewater Systems***

For wastewater systems, the definition of *Failed or Failing Infrastructure* is limited to the following cases as discussed below.

**Septic Systems.** The definition of failed or failing includes systems where the Applicant’s sewer collection system will be extended or an applicant-owned decentralized system will be installed to tie on the area where the houses with failed septic systems are located. DWR-permitted single-family residence discharges (NCG550000) and single-family residence spray / drip irrigation systems are included in this Project Purpose. Or,

**Non-discharge permitted disposal area.** The definition of failed includes a non-discharge permitted disposal area, such as a failed spray/drip irrigation field or infiltration basin where the actual disposal capacity is less than what is currently permitted and there is a subsequent loss of disposal capacity limiting the Applicant’s wastewater treatment plant (WWTP) ability to dispose of its treated effluent. The proposed project must either repair the permitted non-discharge disposal system or build a new non-discharge disposal system to restore the capacity lost.

**Onsite system.** The definition of failing includes an onsite system when a Notice of Violation (NOV) from an authorized agent has been issued per 15A NCAC 18A .1961.

*Required Documentation*

**For failed septic or DWR-permitted single-family residence discharges and single-family residence spray / drip irrigation**, the documentation will be provided under Line Item 2.C.1.

**For failed non-discharge permitted disposal areas** (spray fields/infiltration basins), include the following:

* A copy of the non-discharge permit,

**Important to Remember**

The proposed project can only serve to restore the disposal capacity back to the original permitted capacity. Increasing the disposal area for future growth is not permitted under this line item. Projects that expand infrastructure disposal capacity qualify under Line Item 1.D.

* A letter or correspondence from the Department of Environmental Quality Regional Office that the disposal field/basin serving the project area has failed, and any associated Notice of Violations, and
* For projects addressing failed WWTP disposal fields/basins, a map of the WWTP and spray fields/basins with property lines, indicating which fields/basins have failed, and the location(s) of new fields/basins if they are being added.

**For failing onsite wastewater systems**, the documentation will be provided under Line Item 2.C.2.

***Drinking Water Systems***

The following drinking water systems:

* 1. A well that has become contaminated and provides water exceeding the MCL, or
  2. A well whose yield has declined by at least 50% and with this reduced yield, the system cannot meet its daily demands.

To document these points, provide the following:

*Required Documentation*

For contaminated wells, all wells to be replaced with a connection or service must have documentation of contamination to qualify for Line Item 1.B project purpose points except as noted below. Connections or service to facilities or properties without documentation of contamination will not qualify for Line Item 1.B project purpose points but may qualify for Category 2 Project Benefits points. Only a project that also earns points under Line Item 2.H (Category 2) is eligible under this Line Item. For contaminated wells, the following documentation must be supplied:

* For a contaminated well serving a public water supply system, provide documentation that the well previously met the MCL and no longer does so. Only a project that also earns points under Line Items 2.H.1, or 2.H.2 is eligible under this Line Item.
* For a contaminated privately-owned well, provide laboratory result documentation that the well exceeds applicable MCL. Provide a summary table capturing well identification and sampling result exceeding the MCL. The lab must be a certified lab for MCLs.
* Document that the proposed project will address the contamination issue, either by providing treatment or by connecting to another source that does not have the contamination. This can be documented by:

1. Providing test results of the new source water in case of waterline extension, or

2. Pilot testing or other research information related to the proposed treatment technology demonstrating that the water quality of the new source will meet applicable MCL.

For dry wells, all wells to be replaced with a connection or service in this project must have documentation that the wells have gone dry to qualify for Line Item 1.B Project Purpose points. Connections or service to facilities or properties without documentation of dry wells will not qualify for Line Item 1.B Project Purpose points but may qualify for Category 2 Project Benefits points.

Note that a project that expands capacity in excess of replacing failed or failing infrastructure cannot earn points under this line item. Provide documentation or calculations showing how or why the project does not increase capacity when it’s not an obvious like-for-like replacement (for example, replacing a pump station with gravity sewer or replacing a failed well with an interconnection).

Provide documentation as follows:

* For a dry well serving a public water supply system, provide documentation that the well has gone dry. Only a project that also earns points under Line Item 2.B for a dry well is eligible under this Line Item.
* For dry privately-owned wells, provide the following:
  + A testimonial letter from each homeowner;
  + A letter from the County Health Department stating that the well(s) have lost yield to the point that residents no longer have a reliable water source for drinking and bathing, and
  + A map of the project area in a readable scale, with geographical coordinates, showing street names with the location of the well(s) clearly marked or colorized.

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| **Example Narratives for Line Item 1.B (Wastewater)**  **Narrative that is NOT sufficient:** The Center Avenue Subdivision contains soils that are not suitable for septic systems, and failures of septic systems in this neighborhood are likely. **(Not sufficient because a letter from a registered sanitarian or a licensed soil scientist has not been provided.)**  **Narrative that IS sufficient:** The septic systems in the Center Avenue Subdivision were installed in 1969. Systems located at 426 Center Avenue, 212 Maple Street, and in the 100 block of Chestnut have failed. A letter from the local County Health Department is attached documenting these failures. |
| **Example Narrative for Line Item 1.B (Drinking Water)**  The Peter Subdivision (PWSID No. NC1234567, 17 connections, population 50) is served by a single failed well that no longer provides sufficient water. The project proposes to extend 300 feet of 6-inch waterline from the town of Rossville (PWSID No. NC1234568) to serve the subdivision, which will become a purchased-water system.  Attached are the following:   * The original drawdown tests showing a yield of 30 gpm (432 gpd per person) and a recent drawdown test showing a yield of only 5 gpm (72 gpd per person). This 5 gpm does not satisfy the system’s needs; * A letter from the ZZ County Health Department stating that the well has lost yield to the point that residents no longer have a reliable water source for drinking and bathing; * Pump run time records showing that the well has been over-pumped (average 14 hours/day in 2013 and 2014); and * A map of the subdivision in a readable scale, with geographical coordinates, showing street names with the location of the well(s) clearly marked. This map shows that 300 feet of 6-inch waterline will enable Rossville to connect to the subdivision’s water system near the well. |

* + 1. Line Item 1.C – Project Will Rehabilitate or Replace Infrastructure, Including Replacement by a Regionalization Project (Without Expansion)

An application earns points if the project will replace, repair, or rehabilitate wastewater or drinking water infrastructure *with like-for-like equipment or no increase in capacity*. This includes projects that will remove infrastructure in need of rehabilitation or replacement as part of a regionalization project.

**Points Available**

* Wastewater – 12 points
* Drinking Water – 12 points
* BIL EC Funds – Not Considered

Replacement means either the infrastructure is still in service or that it went out of service less than one year before the application deadline. If replacing equipment that is currently out of service, provide a statement explicitly stating the last time that the equipment was serviced.

**Important to Remember**

The project description in the common application supports that the project is either a like-for-like replacement, or there is no increase in capacity.

***Wastewater Projects.*** Rehabilitation and/or replacement of gravity sewer, pump station and forcemain infrastructure (with no increase in capacity) includes:

**Important to Remember**

A project to replace infrastructure that went out of service one year or more before the application deadline is considered either expansion (Line Item 1.D) or new (no Project Purpose points), as applicable for that type of infrastructure.

* Replacement of a pump station with station/equipment that provides the same permitted firm capacity.
* Sewer lines that are like-size replacements or no larger than 8-inches.
* Replacement projects that include upsizing gravity sewer lines to meet minimum 8-inch diameter size criteria.
* Gravity sewers that replace pump stations and provide the same capacity. However, 8-inch gravity sewers may be installed to meet minimum design criteria which may result in a greater capacity than the replaced pump station. The Applicant must include engineering calculations to support this determination.
* Enhancements at pump stations that do not add capacity, such as SCADA, VFDs, etc.
* Replacement of a WWTP with sewer infrastructure (pump station, gravity sewer, etc.) to send flow to another WWTP if:

**Important to Remember**

Increasing the disposal area for future growth is not allowed under this line item. Projects that expand infrastructure capacity qualify under Line Item 1.D.

* The new infrastructure does not provide for the inclusion of additional service area and/or increases WWTP capacity, and
* The receiving WWTP provides equal or better treatment of received waste.

***Drinking Water Projects***

Rehabilitation and/or replacement of waterlines, pump stations, and tanks includes:

* The new waterline is smaller than the existing waterline;
* The new waterline is the same size as the existing waterline; or
* The new waterline is no larger than 6-inches.
* Interconnection where the interconnection replaces existing treatment or storage facility to meet current demand.
* Enhancements at pump stations that do not add capacity, such as SCADA, VFDs, etc.
* Replacement of a water treatment plant (WTP) with infrastructure (wells, pumps, water lines, etc.) to transfer water if the new infrastructure does not increase treated water capacity or provide for additional service area.
* Water tank rehabilitation/or replacement that does not increase the capacity of the tank, unless required to meet PWS rules governing public water systems (15A NCAC 18C)
* Water meter replacement for systems designated as Distressed. **(Systems that are NOT designated distressed cannot earn project purpose points for water meter replacement projects.)**
* New waterlines where there are not currently water lines do not earn these points; however, a *de minimis* level of new lines to form loops is allowed. The cost of new waterline for the purpose of looping cannot exceed 10% of the project construction cost of the project to be eligible for these points. For a project that includes waterline looping, the cost of replacement waterlines and the cost of the new (loop-closing) waterlines must appear as separate items in the project budget, or as part of the narrative.

The narrative must include tables and maps showing that each of these conditions is met.

*Required Documentation (both wastewater and drinking water projects)*

Wastewater and Drinking Water Existing Treatment Facilities

Rehabilitation and/or replacement projects at existing treatment facilities to replace, repair and/or add infrastructure (with no increase to the permitted treatment capacity) include:

* Rehabilitation and replacement of infrastructure and equipment with the same or similar capacities.
* WWTP upgrades that do not increase treatment capacity including those to provide nutrient removal to meet nutrient limits (wastewater projects).
* WTP upgrades that do not change production capacity of the plant, such as UV disinfection or a redundant filter (drinking water projects).
* Raw water supply projects that do not increase the capacity of the plant to produce treated water, such as:
  + - Surface water intake structures, raw water lines, raw water pump stations and off-stream raw water storage.
    - Additional wells that feed raw water to an existing treatment facility.
* Rehabilitation and/or replacement projects that are part of a regionalization effort.
* Other projects may earn points if the provided documentation and calculations specifically demonstrate that the infrastructure capacity is not increased.

*Required Documentation for Rehabilitation and/or Replacement Projects*

**Important to Remember**

1. It is recommended that applications use approximate lengths for pipe rehabilitation in the project description, narrative, and budget of the common application, and specify their intent to maximize the amount of rehab and replacement work to meet project purpose within and adjacent to the identified project area to utilize all funds awarded. (Note, additional rehab and replacement work may require amended engineering report prior to approval of updated plans and specification or change order)
2. **For systems not designated as distressed:** A project can include residential meter replacement/installation for those meters that are on waterlines being installed, replaced, or rehabilitated. If these meters represent more than 50% of the service meters, the rest of the system meters can be replaced for the purpose of uniformity. Otherwise, projects that include residential meter replacement do not earn points under this line item.
3. A project that replaces capacity from a regional facility does not qualify for points under this line item. A new facility with new discharge or permit is considered new infrastructure and does not qualify for Project Purpose points.

To earn points under this line item for any of the project types listed in this subsection, the narrative must clearly:

* State that equipment will be like-size replacements with the same capacities (within five percent);
* State that each component of the project (e.g., each sewer line, each pump station, each force main, each water line, etc.) that is being rehabilitated or replaced will not change the capacity of that component;
* For upgrades and equipment replacements at WWTP or WTP, specifically state that the upgrades will not exceed the current approved permitted capacity of the plant;
* For rehabilitation/replacement projects that will remove equipment in need of rehabilitation/ replacement from service as part of a regionalization or interconnection effort, provide calculations showing that the project will not increase the capacity associated with the equipment being taken out of service. Additionally, provide paperwork validating the regionalization effort (e.g., interlocal agreement).
* For interconnection projects, the application must receive Line Item 2.K.1 or 2.K.2 priority points to get these points.
* Provide documentation or calculations showing how or why the project does not increase capacity when it is not an obvious like-for-like replacement (replacing a pump station with gravity sewer, for example);
* Closest nominal size for different pipe materials (*e.g.*, 15-inch VCP to 16-inch PVC)
* Note that 10-inch waterlines still exist, so 10-inch to 12-inch is an expansion; and
* Include a map that clearly shows the existing wastewater or water infrastructure to be rehabilitated/replaced.

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| **Example Narratives for Line Item 1.C (Line Rehabilitation/Replacement)**  **Narrative that is NOT sufficient:** The proposed project will replace the existing 1,000 gpm pump station (or booster station for drinking water projects). ***(Not sufficient because no statement is provided to confirm that the replacement is a like-for-like size replacement.)***  **Narrative that IS sufficient:** The proposed project will replace the existing 1,000 gpm pump station (or booster station) with a new 1,000 gpm pump station (or booster station).  **Narrative that IS sufficient:** The proposed project to replace the deteriorated 10-inch line will be a like-for-like replacement.  **Narrative that IS sufficient:** The proposed project will remove the Main Street Pump Station and replace it with gravity sewer that will convey the same amount of flow. Calculations comparing the capacity of the proposed gravity sewer and the existing pump station are included.  **Narrative that IS sufficient:** The proposed rehabilitation project will upgrade the 6-inch gravity sewer to 8-inch gravity sewer to meet 15A NCAC 2T .0305(i)(1).  **Narrative that IS sufficient:** The proposed project will replace any waterlines smaller than six inches with six-inch waterline.  **Narrative that IS sufficient:** As part of Town Incommunicado regionalizing with Town of Big Town, the Incommunicado WWTP, which has bar screens, grit chambers, aeration basins, and clarifiers in need of rehabilitation, will be taken offline. In its place, a pump station and forcemain of the same capacity will be installed. The calculations provided show that no increase in capacity will occur. Also, an interlocal agreement show the official regionalization effort is included. |

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| **Example Narratives for Line Item 1.C Existing Facilities**  **Wastewater Treatment Plant Rehabilitation**  The WWTP’s existing coarse bubble aeration equipment will be replaced with new fine bubble diffusers and more efficient blowers, which will result in an energy savings of 30 percent as shown in the provided calculations.  The WWTP project involves constructing new anaerobic digesters and the digester gas will be used in a combined heat and power (CHP) system as fuel to generate electricity and heat for in-plant uses.  **Water Treatment Plant Rehabilitation**  The project will replace the WTP’s existing filter media. The project will also install the following new equipment:   * a new air scour system will replace the existing backwash system. * powdered activated carbon (PAC) unloading, storage, handling and metering equipment for taste and odor during algal blooms.   The project will not increase the WTP’s capacity to produce water. |

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* + 1. Line Item 1.C.1 – Replace Old Infrastructure (Wastewater or Drinking Water) or Replace Lead Lines (Drinking Water only)

An application that earns points under Line Item 1.C earns *additional* points if the application documents that at least 50 percent of the project construction cost, not including mobilization, contingencies, or similar costs, is for some combination of the following:

**Points Available**

* Wastewater – 8 points
* Drinking Water – 8 points
* BIL EC Funds – Not Considered
* Replacing lead lines including service lines (LSLs) and connectors (goosenecks, pigtails, etc.) regardless of the age of the lines; or
* Replacing, repairing or rehabilitating intake structures, buildings, drinking water wells or tanks that are more than 40 years old as of the date of application (drinking water projects only); or

**Important to Remember**

* All age calculations are calculated as of the date of application.
* The Division assumes the following pipe material types are older than the threshold: Asbestos Cement (AC), Vitrified Clay (VC), galvanized iron, cast iron and bituminized fiber (e.g., Orangeburg) pipe.
* Replacing, repairing or rehabilitating sewer or water lines that are more than 40 years old as of the date of application; or
* Replacing, repairing or rehabilitating pumps, pump stations, wastewater or water treatment units that are more than 20 years old as of the date of application; or
* Replacing, repairing or rehabilitating SCADA, process control, or information technology that are more than 10 years old as of the date of application; or
* Replacing meters, when eligible, that are more than 20 years old as of the date of application.

*Required Documentation*

For a project to receive these points (except for lead service lines, see below), the narrative must include a specific statement of the year of construction, how the age is known, and associated documentation, if available. Documentation may include, but is not limited to:

* Plans showing the date of installation
* Final approval letter
* Maintenance records
* Housing plats
* Blueprints
* Printed information from NC One-Map
* Operator knowledge.

In summary, describe how you know that the items are older than the threshold.

For lead lines, the narrative must include an explanation of how the lead lines were identified. For projects that replace service lines, a summary of the number LSLs to be replaced. Projects intending to find and replace LSLs in areas without identified lead service connections are not eligible for these points. A map must be provided identifying where the lines and/or goosenecks are located.

A project might replace, repair or rehabilitate some infrastructure components old enough to earn the points (or are lead) and other components that are not old enough to earn the points. To earn the points, the Project Budget page in DWI’s Application must show that at least 50 percent of the construction cost[[1]](#footnote-2) of the project meets the above requirements. Age is determined on a component-by-component basis rather than for the entire facility.

*Required Documentation*

**Important to Remember**

Those infrastructure components old enough to earn the additional priority points and those components not old enough to earn the additional priority points must appear as separate line items on the project budget.

For a project to earn these priority points:

* The Project Budget page in DWI’s Application must distinguish the construction cost for components old enough (or related to LSLs and goosenecks) to earn the points from the construction cost for those components that are not old enough. The narrative must include subtotals for construction items that qualify as replacing old infrastructure or lead service lines and goosenecks; and
* All other information in DWI’s Application must be consistent with the Project Budget.

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| **Example Narratives for Line Item 1.C.1**  The existing 12-inch pipe that will be rehabilitated was installed prior to 1960. A copy of the as-built plan sheet showing the date of construction is included.  The lead service lines in the Whodunit neighborhood (86 homes), which was constructed in 1980, will be replaced as part of this rehabilitation / replacement project. These service line replacements amount to 60% of the construction costs. A map is provided that shows the location of the project and the Whodunit neighborhood. |

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* + 1. Line Item 1.D – Project Will Expand Infrastructure

An application earns points if the project expands the existing collection and distribution system or treatment facilities to accommodate either existing capacity deficiencies or future flows. Projects that rehabilitate or replace existing infrastructure with larger (expanded) infrastructure may be eligible for these points.

**Points Available**

* Wastewater – 2 points
* Drinking Water – 2 points
* BIL EC Funds – Not Considered

Projects claiming Line Item 1.C points for rehabilitation and/or replacement of existing infrastructure that do not sufficiently document that the project is a like-for-like capacity will typically qualify for these expansion points (e.g., points will “roll down”) without additional expansion documentation. Similarly, projects claiming 1.E points that do not sufficiently document that the project will provide service to disadvantaged areas will also be considered for these points.

For drinking water infrastructure, expansion projects that provide service for future growth are not eligible for DW-SRF funds and do not earn these priority points. For wastewater infrastructure, an application can earn points for expansion of existing infrastructure to accommodate existing capacity needs or anticipated future flow in the existing service area. New sewer lines and/or pump stations to extend service to areas not currently served or a new WWTP that does not replace an existing WWTP are considered new infrastructure and do not qualify for project purpose points. Expansion of existing infrastructure requires that either the infrastructure is still in service, or it went out of service less than one year before the application deadline. If replacing equipment that is currently out of service, provide a statement explicitly stating the last time the equipment was in service. A project to expand infrastructure that went out of service one year or more before the application deadline is considered *new* infrastructure and earns no Project Purpose points. Table 2

**Important to Remember**

For drinking water projects, new lines/pump stations are only allowed under this line item if they are needed to interconnect or consolidate existing systems to address current capacity needs.

| **Table 2. Wastewater and Drinking Water Expansion Project Types** | |
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| **Wastewater** | **Drinking Water†** |
| Wastewater Collection   * Increase existing sewer pipe diameter to provide for future capacity and/or alleviate existing capacity deficiencies * Increase existing pump station capacity to provide for future flows or alleviate existing capacity deficiencies * Provide new sewer lines/pump stations needed to consolidate existing WWTPs and provide capacity for the increased flow from the existing service area (wastewater projects only)   WWTP   * Increasing the permitted capacity of an existing WWTP (the facility will require a new NPDES permit flow sheet). | Drinking Water Distribution   * Increase existing water line pipe diameters to address current needs * Increase existing booster station capacity to meet current needs * Provide new infrastructure needed to consolidate existing infrastructure (wells, pumps, water lines, etc.) to transfer water to address current needs * Interconnection where the interconnection replaces existing treatment or storage facility and expands capacity * Additional water treatment capacity to meet current needs. * Additional wells, booster pumps, or storage tanks to meet current needs.   WTP   * Expanding water treatment plant to produce more treated drinking water. |
| †Expansion projects designed to meet existing needs. | |

below lists what constitutes expansion projects for wastewater and drinking water projects.

**Important to Remember**

New waterlines to serve future growth or undeveloped areas do not earn these points; however, a *de minimis* level of new lines to form loops is allowed. The cost of new water line for looping (e.g. for the purpose of looping) **cannot exceed 10% of the construction cost** in the project and cannot provide new service to currently unserved areas.

**Important to Remember**

The DWSRF is meant to serve the public health needs of the existing population. Congress specifically directed in the SDWA that the DWSRF program avoid the use of funds to finance the expansion of any public water system in anticipation of future population growth. The EPA specified that a project which is intended primarily to address public health and/or regulatory compliance issues for the existing service population may be sized for a “reasonable” amount of population growth over the useful life of the project. For the purpose of these priority points, expansion is limited to meeting existing service population with a “reasonable” amount of population growth.

*Required Documentation*

To receive these priority points, the narrative must have the following documentation:

* For waterline interconnection projects, the application must have documentation to receive Line Item 2.K priority points.
* Provide a clear description of the project: explain what is being expanded or replaced and what is its current and proposed capacity.
* Provide a project map that clearly shows the location of existing infrastructure to be expanded.

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| **Important to Remember**   1. It is recommended that applications use approximate lengths for pipe rehabilitation in the project description, narrative, and budget, and specify their intent to maximize the amount of rehab and replacement work to meet project purpose within and adjacent to the identified project area to utilize all funds awarded. (Note, additional rehab and replacement work may require amended engineering report prior to approval of updated plans and specification or change order) 2. New waterlines solely to serve future development are not eligible for funding. See 40 CFR I35.3520(e)I(5). |

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| **Example Narratives for Line Item 1.D (Collection and Distribution Lines)**  **Narrative that is NOT sufficient:** A town plans to install a new interceptor and pump station to receive flow from future industry and a subdivision. ***(Not sufficient because the reason for any new sewer line or pump station must be solely to consolidate existing WWTPs.)***  **Narrative that is NOT sufficient**: The town plans to install a new waterline to provide water to future industry and a subdivision. **(*Not sufficient because a project cannot be justified to serve future population growth. The documentation does not make clear whether the subdivision is future growth or an existing water system with e.g., inadequate supply.*)**  **Narrative that IS sufficient:** A town plans to install a major interceptor to take one of its WWTPs off-line and shift the flow to another under-utilized WWTP, while also providing for an increase in the WWTP’s service area.  **Narrative that IS sufficient:** The Town of Easter proposes to install an additional well to provide redundancy in supply.  **Narrative that IS sufficient:** Portions of a town’s water system (8-inch) are undersized to handle existing water flows as evidenced by documented low pressures during times of peak use; this project will upsize these lines to 12-inches.  **Narrative that IS sufficient:** Portions of a town’s sewer system (8-inch and 10-inch lines) are undersized to handle existing wastewater flows as evidenced by surcharging manholes; this project will upsize these lines to 16-inches to prevent the manhole surcharging.  **Narrative that IS sufficient:** A town has an interceptor that needs to be upsized from 12-inch diameter to 18-inch diameter to accommodate additional future flow. |
| **Example Narrative for Line Item 1.D (Treatment Plants)**  The proposed project will expand a WWTP from its currently permitted capacity of 0.500 MGD to 1.00 MGD. The associated NPDES Permit for the increased capacity has been received (or if not yet received, provide status).  The WTP has a rated capacity of 0.50 MGD. The maximum daily demand for the past three years has been approximately 0.72 MGD. The system has met the maximum daily demand by a combination of the following:   * Operating the filters in excess of 4.0 gph/sq ft, and * Purchasing additional water from the county system.   Therefore, the project is *justified* to meet current demand.  The project is *sized* to accommodate reasonably expected future growth: Based on continuing the past ten years growth in population (see tables and graph below), the maximum daily demand in 20 years will be 0.92 MGD. Therefore, the proposed project will expand the WTP from its rated capacity of 0.5 MGD to 1.0 MGD. |

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* + 1. Line Item 1.D.1 – Replaces or Rehabilitates with Expansion of Old Infrastructure

An application that earns points under Line Item 1.D earns *additional* points if the application documents that at least 50 percent of the construction cost of the project is for infrastructure meeting the age requirements of Line Item 1.C.1 above. This Line Item requires the same documentation as Line Item 1.C.1. If points were claimed for Line Items 1.C and 1.C.1 but the Division determines that the proposed project is an expansion project rather than a rehab/replacement project, the project will be considered for points under Line Items 1.D and 1.D.1 instead. Note that to earn Line Item 1.D.1 points, the aged infrastructure must be taken out of the service or rehabilitated. Expansion by parallel construction does not earn these points if old infrastructure is left in operation without rehabilitation

**Points Available**

* Wastewater – 8 points
* Drinking Water – 8 points
* BIL EC Funds – Not Considered

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* + 1. Line Item 1.E. – Project Will Provide Service to Disadvantaged Areas

Projects for which at least 75 percent of the construction costs[[2]](#footnote-3) are to provide connection or alternative service to disadvantaged areas are eligible to receive these points. Service may be connections to a public water system or wastewater collection system or connection to a decentralized system serving a cluster of residences. The project must result in residences and buildings identified in disadvantaged areas being connected to utility services owned, operated and maintained by the Applicant.

**Points Available**

* Wastewater – 20 points
* Drinking Water – 20 points
* BIL EC Funds – Not Considered

The targeted project area will be determined a “disadvantaged area” based on factors that must include:

* Affordability of water and sewer service rates relative to the income levels of residents in the targeted project area, median household income, poverty rates, per capita appraised values of property, and/or employment rates of the targeted project area,
* Additional factors that may qualify the targeted project area as disadvantaged, such as but not limited to, demographic, historical, cultural, linguistic, socioeconomic stressors, cost-of-living stressors, or existing contamination factors, may also be considered.

**Important to Remember**

Connections fees for residences in disadvantaged area are an eligible project cost. Recipients receiving WWSR or DWSR grants or CWSRF DWSRF principal forgiveness may not charge connection fees to residents in disadvantaged areas.

*Required Documentation*

Documentation must include the following:

* A project map clearly identifying disadvantaged areas. The map must identify properties to be connected to services within the project area that are inside and outside of the disadvantaged area(s).
* A narrative in the application to justify the targeted project area as disadvantaged using the factors above. When available, targeted project area data (e.g. median household income in the targeted project area’s census block group) should be compared to state benchmark values established in Category 4 – Affordability. Supporting documentation may include maps or other existing sources to document their justification. For example, documentation can include screenshots/printouts of NC DEQ’s Community Mapping System (CMS) (<https://deq.nc.gov/outreach-education/environmental-justice/deq-north-carolina-community-mapping-system>), and identify on the map the targeted project area overlapping “Potentially Underserved Block Groups 2024” and/or “Tribal Boundaries” that appear on the online map as shaded areas (these are considered disadvantaged, underserved areas). Use of NC DEQ’s Community Mapping System (CMS) and other similar federal or state-generated maps is encouraged.
* A project budget form that includes the following:

**Important to Remember**

Attach your calculations to the application.

* + Demonstration that at least 75 percent of the total construction cost in the Division Funding Requested column of the Project Budget (see Section 8 of the DWI application) is necessary to provide service to existing residences in disadvantaged areas that voluntarily choose to connect to or become part of the water and/or wastewater utility. Specify the line item(s) or portions of line item(s) that are necessary to provide service to existing residences in disadvantaged areas.
  + A line item for connections fees or system development fees for providing service connections to homes in disadvantaged areas if the applicant intends to request funds to cover these fees.

**Important to Remember**

Projects that receive grant or principal forgiveness must include all connection fees and system development fees to residences/buildings within disadvantaged areas (and may not charge those fees to connect residences/buildings as part of the project).

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* + 1. Lines 1.F, 1.F.1, and 1.F.2 – Reserved for the CDBG-I Program

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* + 1. Line Item 1.G – Project will Provide Stream/Wetland/Buffer Restoration (GREEN Project)

A project that will restore a stream, wetland, or buffer from its existing substandard state to a more natural state, including vegetated buffers or soft bioengineered stream banks, qualifies for points under this line item and is considered a GREEN Project that may be funded by a CWSRF loan with a one percent interest rate discount.[[3]](#footnote-4) Stream daylighting that removes natural streams from artificial pipes and restores a more natural stream morphology is included.

**Points Available**

* Wastewater – 10 points (CWSRF only)
* Drinking Water – Not Applicable
* BIL EC Funds – Not Considered

*Required Documentation*

The narrative must do the following:

* Clearly describe the proposed project, and
* Include a map that shows the location of the project and the streams, wetlands, and/or buffers that will be restored

Projects may also qualify for Line Items 1.G.1 and/or 1.G.2 below for additional points.

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* + 1. Line Item 1.G.1 – Restoration of a First-Order Stream, Including Stormwater Infiltration SCMs (GREEN Project)

If the stream/wetland/buffer restoration project occurs along a first-order stream and includes stormwater infiltration Stormwater Control Measures (SCMs), the project qualifies for *additional* points.

**Points Available**

* Wastewater – 5 points (CWSRF only)
* Drinking Water – Not Applicable
* BIL EC Funds – Not Considered

*Required Documentation*

The narrative must discuss key considerations related to the feasibility of implementing the proposed SCM. Include a map that shows the location and name of the first-order stream, the streams/wetlands/buffers that will be restored, and the location of the stormwater infiltration SCMs.

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* + 1. Line Item 1.G.2 – Establishment or Restoration of Permanent Riparian Buffers to at Least 30 Feet on Both Sides of a Stream (GREEN Project)

If the stream/wetland/buffer restoration project includes the establishment or restoration of the riparian buffer, the project qualifies for *additional* points. Establishment or restoration of a riparian buffer must include:

**Points Available**

* Wastewater – 5 points (CWSRF only)
* Drinking Water – Not Applicable
* BIL EC Funds – Not Considered
* Establishment of a buffer where one does not exist or restoration of existing vegetation in a buffer meeting the following criteria:
* Woody vegetation for zone one (30 feet) of the buffer, and
* Woody or herbaceous vegetation for zone two (Zone 1 plus 20 feet) of the buffer.
* A minimum of 30 feet on each side of the stream must be protected.

**Important to Remember**

The maximum buffer width that is eligible for funding is 50 feet on each side of the stream.

* The removal of all stormwater discharges through the buffer that are not associated with natural drainageways.

Line Items 1.G.1 and 1.G.2 may be ideal for LGUs that may not qualify for the Local Assistance for Stormwater Infrastructure Investment (LASII) funding program, or LGUs that have the ability to assume debt.

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* + 1. Line Item 1.H – Project Will Provide SCMs to Treat Existing Sources of Pollution (GREEN Project)

A stormwater project that provides for the construction and/or installation of SCMs that treat existing sources of pollution qualifies for points under this line item and is considered a green project that may be funded by a CWSRF loan with a one percent interest rate discount.[[4]](#footnote-5) The proposed SCMs are not required to meet all of the design criteria contained in the latest version of the [NCDEQ Stormwater Design Manual](https://deq.nc.gov/about/divisions/energy-mineral-and-land-resources/stormwater/stormwater-program/stormwater-design); however, the narrative must include explanations as to why the criteria cannot be met (e.g., limited space within the existing watershed).

**Points Available**

* Wastewater – 10 points (CWSRF only)
* Drinking Water – Not Applicable
* BIL EC Funds – Not Considered

Line Item 1.H may be ideal for LGUs that may not qualify for the LASII funding program, or LGUs that have the ability to assume debt.

*Required Documentation*

The narrative must do the following:

* Clearly describe the existing sources of pollution;
* If any future development will be served by the BMPs (in addition to existing sources), provide the percentage of impervious area that will be tributary to the BMPs for both future development (estimated) and existing development;
* Include a list of the potential types of SCMs to be used and the key considerations related to the feasibility of implementing each type of proposed SCM; and
* Include a map that shows the location of the proposed SCMs.

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* + 1. Line Item 1.H.1 – Stormwater SCMs that Achieve Nutrient and Solids Reduction (GREEN Project)

Projects that qualify for *additional* points under this line item include SCMs or SCMs in series as specified in the latest version of the [NCDEQ Stormwater Design Manual](https://deq.nc.gov/about/divisions/energy-mineral-and-land-resources/stormwater/stormwater-program/stormwater-design), which includes proprietary SCMs approved under the process described in the Stormwater Design Manual. The SCMs or SCMs in series must achieve the following reductions based on the Stormwater Design Manual requirements for regulatory credits:

**Important to Remember**

Stormwater conveyance alone is not eligible for points. Only that conveyance which is necessary to move stormwater to the SCM is eligible for points.

**Points Available**

* Wastewater – 10 points (CWSRF only)
* Drinking Water – Not Applicable
* BIL EC Funds – Not Considered
* At least 35 percent total nitrogen, and
* At least 35 percent total phosphorus reduction, and
* At least 85 percent total suspended solids (TSS) reduction.

*Required Documentation*

The narrative must do the following:

* Specifically state that project will adhere to the Stormwater Design Manual design requirements for regulatory credits,
* Include the calculation of pollutant credit removal efficiency for SCMs or for SCMs in series
* State the percentage reductions that will be achieved,
* If implementing an item that the Stormwater Design Manual lists for “possible” credits, include a letter from the NCDEQ Stormwater Permitting Unit that indicates the criteria needed to make the credits “actual”, and
* If, due to existing site limitations only, SCMs are unable to meet the design requirements listed in the SCM Manual, include a letter from the NCDEQ Stormwater Program that indicates a reasonable expected percentage pollutant reduction.
* [Return to Table of Contents](#TOC)
  + 1. Line Item 1.I – Project Will Provide Reclaimed Water/Usage or Rainwater Harvesting/ Usage (GREEN Project)

For reclaimed water, to qualify for points under this line item, the project must produce and/or utilize reclaimed water or be a rainwater collection and utilization project. This project is considered a GREEN Project that may be funded by a CWSRF loan with a one percent interest rate discount.[[5]](#footnote-6) A reclaimed water project may either be a new reclaimed water project, or the expansion of an existing reclaimed water system; however, the project must only consist of the equipment necessary to produce or provide reclaimed water (e.g., the project cannot include other WWTP upgrades or expansions, collection system facilities).

**Points Available**

* Wastewater – 10 points (CWSRF only)
* Drinking Water – Not Applicable
* BIL EC Funds – Not Considered

A rainwater harvesting project involves collecting rainwater from impervious surfaces such as parking lots and rooftops and utilizing the collected rainwater for non-potable purposes such as irrigation or vehicle washing. Note that the project may have multiple collection locations.

*Required Documentation*

The narrative must:

* Clearly describe the proposed project, and
* Include a map that shows the location of the existing and/or proposed infrastructure.

**New reclaimed water systems.** If the project is for new reclaimed water treatment and/or distribution infrastructure (where there is currently no existing reclaimed water system), the Applicant must provide commitment letters from the future users that:

* Clearly describe the planned use of the reclaimed water, and
* State that the quality of the reclaimed water to be provided will meet their specific water quality needs.

If the proposed reclaimed water system will be serving residential users or in other situations where a commitment letter is not practicable, the Applicant must submit a copy of an existing ordinance that requires the use of reclaimed water upon its availability, or a commitment to approve such an ordinance with the timeframe for its approval.

**Expansion of existing reclaimed water systems.** The narrative must describe the operational status of the existing reclaimed water facilities and how the proposed project will connect to the existing system.

* The map must show the existing system and how the project will connect into the system.
* The Applicant must also provide a copy of the current reclaimed water permit and provide commitment letters from the future users that:
  + Clearly describe the planned use of the reclaimed water, and
  + State that the quality of the reclaimed water to be provided will meet their specific water quality needs.

**Rainwater harvesting.** In the narrative:

* Describe where the project will be located and the surfaces from which the rainwater will be collected,
* Discuss how the rainwater will be collected and stored (e.g., collected via rooftop gutters and stored in an underground cistern),
* Describe how the rainwater will be used,
* State the name of the entity responsible for ensuring that the rainwater will be utilized for the uses it is intended, and
* Include a map that shows the location of the surface(s) and building(s) from which rainwater will be collected, and the location of the rainwater storage infrastructure.

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* + 1. Line Item 1.J – Project Will Address Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) –

North Carolina’s Bipartisan Infrastructure Law Emerging Contaminant (BIL EC) program will give high priority to projects addressing PFAS, for which EPA established the following final enforceable levels on April 10, 2024:

**Important to Remember**

Addressing PFAS means:

* New water supply meets MCLs, is below Hazard Index (if established) and below detection level for any other non- regulated PFAS compounds, or
* Treatment processes are designed to reduce respective emerging contaminants to below proposed MCLs, below Hazard Index (if established) or below detection level for any other non- regulated PFAS compounds.
* PFOA 4.0 ppt Maximum Contaminant Level (MCL)
* PFOS 4.0 ppt MCL
* PFHxS 10 ppt MCL
* PFNA 10 ppt MCL
* HFPO-DA (GenX) 10 ppt MCL
* A mixture containing two or more of GenX, PFBS, PFNA and PFHxS exceeding Hazard Index of 1 as announced by EPA on April 10, 2024.

Construction projects addressing any of the PFAS detected in water will be eligible for BIL EC-C funds in addition to the CWSRF, DWSRF, SWWR, or SDWR funds.

An Application can earn priority points for only one line item under Line Item 1.J. Eligible projects may claim Line Items 1.J.1 or 1.J.2. Projects claiming Line Item 1.J.1 will be considered for Line Item 1.J.2 if the narrative and supporting documentation do not meet the requirements for Line Item 1.J.1.

To qualify for Line Item 1.J points, the purpose of the project must be to address **PFAS. The project must also receive 2.H.3 or 2.H.4 /points.**

To be eligible for DWSRF-EC-C funds, projects must score 1.J.1 or, 1.J.2 points.Wastewater Applicants seeking CWSRF-EC-C funds are only eligible if they receive Line Items 2.H.3 or 2.H.4. Line Items 1.J.1 and 1.J.2 are available for wastewater projects; however, 1.J. points are not mandatory to be eligible for CWSRF-EC-C funds. Only the portion of the project directly related to resolving PFAS issues is eligible for funds from CWSRF-EC-C.

Eligible Projects to address **PFAS in a drinking water system or wastewater system** may include:

* Construction of a new treatment facility or upgrade to an existing treatment facility.
* Development of a new source (i.e., new/replacement well or intake for a public water system).
* Consolidation with another water system that does not have ECs present or has removal capability.
* Creation of a new community water system or extension of a distribution system to address unsafe drinking water provided by individual (i.e., privately-owned) wells or surface water sources.

**Important to Remember**

Emerging Contaminants studies are not eligible for EC funds from twice-a-year applications. DWSRF-EC study project applications are accepted on a rolling basis.

Bottled water or point of use devices are not an eligible expense per federal program rules.

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* + 1. Line Item 1.J.1. 100 Percent of the Project Cost Is to Address Emerging Contaminants

Projects for which 100 percent of the construction costs[[6]](#footnote-7) are to address PFAS are eligible to receive these points.

**Points Available**

* Wastewater – Not eligible
* Drinking Water – Not eligible
* BIL EC-C Funds – 12 points for both CWSRF and DWSRF

For projects addressing PFAS in private drinking water wells, the project must result in residences/buildings being connected to utility services or systems owned, operated, and maintained by the Applicant.

*Required Documentation*

To document that the project addresses PFAS, the application must include the following:

* Sufficient documentation to receive Line Item 2.H.3 or 2.H.4 points,
* The project budget clearly showing 100 percent of the construction costs are to address PFAS.
* All wells to be replaced with a connection or service in this project must have documentation of contamination to qualify for Line Item 1.J.1 points except as noted below.
  + Projects addressing GenX that are within 50 miles of the Chemours facility in Bladen County will be considered meeting the sole purpose requirement if 25 percent or more of facilities to be connected in this project have documentation demonstrating exceedance of the Hazard Index (HI) for GenX.
* Document that the proposed project will address the contamination issue, either by providing treatment or by connecting to another source that does not have the contamination. This can be documented by:
* Providing test results of the new source water in case of waterline extension, or
* Pilot testing or other research information related to the proposed treatment technology demonstrating that the water quality of the new source will meet applicable proposed MCL, HI, or below detection levels (for unregulated PFAS compounds), as applicable.

Applications unable to document source water data or treatment technology capable of meeting applicable levels can submit a plan for mitigation of the contamination at individual residences and/or treatment of new water source to minimize the PFAS contamination to the applicable levels.

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* + 1. Line Item 1.J.2 – 75 Percent of the Project Cost Is to Address Emerging Contaminants

Projects for which 75 percent of the construction costs[[7]](#footnote-8) are to address PFAS are eligible to receive these points.

**Points Available**

* Wastewater – Not eligible
* Drinking Water – Not eligible
* BIL EC Funds – 5 points for both CWSRF and DWSRF

For projects addressing PFAS in private drinking water wells, the project must result in residences/buildings being connected to utility services or systems owned, operated, and maintained by the applicant.

To document that the project addresses PFAS, the application must include the following:

* Sufficient documentation to receive 2.H.3 or 2.H.4 points
* The project budget must clearly show least 75 percent of the construction costs are to address PFAS
* A minimum of 50% of wells to be replaced with a connection or service in this project must have documentation of contamination to qualify for Line Item 1.J.2 points
* Document the proposed project will address the contamination issue, either by providing treatment or by connecting to another source that does not have the contamination. This can be documented by:
* Providing test results of the new source water in case of waterline extension, or
* Pilot testing or other research information related to the proposed treatment technology demonstrating that the water quality of the new source will meet applicable proposed MCL, HI or below detection levels (for unregulated PFAS compounds) as applicable.

Applications unable to document source water data or treatment technology capable of meeting applicable levels can submit a plan for mitigation of the contamination at individual residences and/or treatment of new water source to minimize the PFAS contamination to the applicable levels.

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* + 1. Line Item 1.J.3 – Project Evaluates Alternatives to Address Emerging Contaminants

Line Item 1.J.3 points are not applicable for these programs

* 1. **Category 2 – Project Benefits**

To earn points in this section, only a portion of the project must relate to a specific benefit. Applications earn Project Benefits points only when the Applicant identifies a direct connection between the project and the type of expected benefit.

**Important to Remember**

For Category 2 – Project Benefits, the maximum number of points that a project can earn is capped at 35 points, even if the project documents Project Benefits Line Items summing to more than 35 points.

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* + 1. Line Items 2.A & 2.A.1 – Reserved for the CDBG-I Program

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* + 1. Line Item 2.B – Project Provides a Specific Public Health Benefit

An application may earn points if the project provides *a specific public health benefit* to a public water supply system. This may occur in either or both of two ways as described below.

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| **Important to Remember**  Line Item 2.B. is only available to projects that benefit public water supply systems. Projects benefiting private well systems may be eligible for line Item 2.H, but not 2.B points. |

* + 1. Line Item 2.B.1 – Project Addresses Dry Wells or Contamination of a Drinking Water Source or Resolves Managerial, Technical, and Financial Issues

An application may earn points if the project provides a specific public health benefit to a public water supply system by replacement, repair, or merger. Eligible projects include only the following:

**Points Available**

* Wastewater – Not applicable
* Drinking Water – 20 points
* BIL EC Funds – Not Considered for BIL EC Funds
* Replacing a dry well serving a public water supply system,
* Addressing a contaminated drinking water source (including a well) by either replacing it or adding treatment. In this context, *contaminated* means that the water contains some substance or characteristic so that the existing treatment – operated properly – can no longer meet the MCLs listed in T15 A NCAC 18C .1500 *et seq.* Projects solely to address PFAS are not eligible for these points.
* Resolving managerial, technical, and financial issues as documented by receiving priority points under Line Item 1.A. (Receiving 1.A points automatically makes the project eligible for 2.B.1 based on resolving technical, financial and managerial issues)

Note that PFAS/EC study or construction projects are NOT eligible for these points.

*Required Documentation*

**Dry wells.** For a dry well serving a public water supply system, provide the following:

* Drawdown tests that show the well’s production has decreased by at least 50 percent.
* A letter from the DWR Regional Office stating that the well(s) have lost yield to the point that residents no longer have a reliable water source for drinking and bathing.
* A map of the project area in a readable scale, with geographical coordinates, showing street names with the location of the well(s) clearly marked or colorized. Identify by name and PWSID Number of the public water supply system that the dry well serves.

**Contaminated public water supply source.** To document these points for a project that replaces or adds treatment to a contaminated public water supply source, do the following:

**Important to Remember**

2.B.1 points are for replacement, repair, or merger projects. Projects that increase a system’s capacity to produce water or that install new (non-replacement) infrastructure can earn these points only to the extent the expansion is necessary to accomplish a system merger or to provide additional treatment to meet the MCL.

* Show that the project earns points for replacing or adding treatment to a contaminated public water supply source under Line Item 2.H.1 or 2.H.2; and
* Identify by name and PWSID the public water supply system that the contaminated source serves, if applicable.

**Nonviable drinking water projects.** A nonviable drinking water project that receives points under Line Item 1.A. will automatically receive these points for resolving managerial, technical, and financial issues.

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* + 1. Line Item 2.B.2 – Elimination of Lead Service Lines

An application may earn points under this line item if a minimum of 30% of the project construction cost or all of the project is dedicated to replacing known LSLs. All known lead components must be replaced. Meter only or connector only projects are not eligible unless they are the only lead components present.

**Points Available**

* Wastewater – Not applicable
* Drinking Water – 10 points
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

To earn points under this line item, include the following in the narrative:

* The addresses of the properties with lead service lines to be replaced, and how they were identified.
* Statement that all identified lead components are being replaced.
* Project budget must show a breakdown of costs associated with LSL replacements
* A map showing the location of the project and the lines to be replaced.

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* + 1. Line Item 2.C – Project Provides a Specific Environmental Benefit

An application may earn points if the proposed project provides *a specific environmental benefit* as described in the two sub-line items below. Projects will only receive either Line Item 2.C.1 or 2.C.2 points based on the documentation provided.

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* + 1. Line Item 2.C.1 – Project Replaces or Repairs Certain Sewer Lines, Eliminates Failed Onsite Wastewater Systems or Non-Discharge Systems, or Resolves Managerial, Technical, and Financial Issues

An application may earn points through the replacement, repair, or merger of a wastewater system. Eligible projects include *only* the following:

**Points Available**

* Wastewater – 15 points
* Drinking Water – Not applicable
* BIL EC Funds – Not Considered for BIL EC Funds
* Sewer lines to serve homes with failed onsite wastewater systems, or failing Division of Water Resources (DWR) permitted single-family residence discharges (NCG550000) and single-family residence spray / drip irrigation systems (Line Item 1.B); or
* Repairing or replacing sewer lines responsible for reported sanitary sewer overflows or repairing or replacing equipment to resolve an upset, spill, or bypass at treatment works[[8]](#footnote-9) that:
* Reach bodies of water, or
* Back up into homes causing a public health problem, as documented by affidavit from homeowner or tenant; or
* Resolving managerial, technical, and financial issues as documented by receiving priority points under Line Item 1.A.

These points are for replacement, repair, or merger projects. Projects that increase a system’s capacity or that install new (non-replacement) infrastructure can earn these points only to the extent the expansion is necessary to accomplish a system merger.

*Required Documentation*

The project narrative must clearly state which activity (e.g., failed onsite wastewater systems, failing DWR-permitted single-family residence discharge, single-family or public spray/drip irrigation system, replacement/repair of sewer lines and pump stations) in this Line Item is applicable and include the following:

* For projects to serve homes with failed septic/failing DWR single-family permitted systems:
* A list of the addresses where septic systems are failing.
* A project map that clearly shows the specific locations of:
* Street names and house numbers of failed systems
* New sewer lines
* All systems to be connected to the public sewer system
* A signed and sealed statement from a registered sanitarian or a licensed soil scientist or the County Health Department that the septic/irrigation systems in the project area have failed. For DWR-permitted single-family discharge systems and spray/drip irrigation systems, list the permits in the watershed that the sewer will replace.

**Important to Remember**

County health department letters that advise “failures are *likely*” or “soils do not allow *new* septic systems” are not sufficient documentation of failing systems.

* For projects that connect homes to public sewer, documentation that greater than 50 percent of the homes being connected have failed.
* For replacing/repairing sewer lines, pump stations, or treatment equipment that are responsible for reported sanitary sewer overflows or bypasses:
* A project map that clearly shows the specific locations of:
* Sewer lines, including manholes and pump stations, to be rehabilitated that directly connect to environmental/public health threat;
* Location of the SSOs, and location of where the spills reached the body of water; or
* Street names and house numbers where sewer has backed up into residences.
* Identify the frequency and cause of the spill and explain how the project will address the cause of the spill.

**Important to Remember**

Isolated incidents related to severe natural conditions do not qualify for points.

* Submit all Spill Reports, sanitary sewer overflow (SSO) Reports or Bypass Reports documenting that the spills/SSOs or Bypasses were reported to the Regional Office. Spill Reports, SSO Reports and Bypass Reports must be dated within five years of the application deadline.
* Submit all NOVs or Notices of Deficiency (NODs) which also document the environmental issues causes by the spills/bypasses/SSOs. All NOV/NODs must be dated within five years of the application deadline.

**Important to Remember**

**Note:** These points are for replacement, repair, or merger projects. Projects that increase a system’s capacity or that install new (non-replacement) infrastructure can earn these points only to the extent the expansion is necessary to accomplish a system merger.

* Documentation of wastewater backups into residences within five years of the application deadline.
* A nonviable wastewater project that receives points under Line Item 1.A. will automatically receive these points for resolving managerial, technical, and financial issues.

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* + 1. Line Item 2.C.2 Project Eliminates Malfunctioning Onsite Wastewater Systems

Line item 2.C.2 is available to projects that eliminate failing (malfunctioning) onsite wastewater systems. An onsite system is failing when an NOV from an authorized agent has been issued per 15A NCAC 18A .1961.

**Points Available**

* Wastewater – 10 points
* Drinking Water – Not applicable
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

To claim points under this line item, the narrative must include the following:

* A list of the addresses where septic systems are malfunctioning.
* A project map that clearly shows the specific locations of:
* Street names and house numbers of malfunctioning systems,
* New sewer lines, and
* All systems to be connected to the public sewer system.
* Notices of Violation (NOVs) according to 15A NCAC 18A .1961 for malfunctioning systems being provided service.
* For projects that connect homes to public sewer >50% of the homes being connected must have documented NOVs as described above to be eligible for these points.

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* + 1. Line Item 2.D – Project Addresses Promulgated But Not Yet Effective Regulations

To earn points under this line item, the project must fulfill the requirements of a regulation that has been promulgated but has not yet gone into effect. This line item applies to regulations for new contaminants as well as changes to regulations for existing contaminants. Note that PFAS/EC study or construction projects are NOT eligible for these points.

**Points Available**

* Wastewater – 10 points
* Drinking Water – 10 points
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

The narrative must include the following:

* The regulatory citation and summary of the applicable regulation. List the date on which the regulation will go into effect.

**Important to Remember**

Projects replacing LSLs that are eligible for points under Line Item 2.B.2 are not eligible for Line Item 2.D points.

* Documentation that the high potential for violation exists (such as NPDES permit effluent monitoring results or laboratory results). The narrative must clearly describe how this documentation shows a high probability of a violation; and
* A clear explanation of how the proposed project will lead to compliance with the regulation.

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| **Example Narrative for Line Item 2.D**  Water at the Town of Cinco’s five wells exceeds the proposed 1ug/mL MCL for *Chemical X* in T15A NCAC 018C .15xx. This MCL was promulgated on January 1, 2022 and the first compliance deadline for Bin 1 systems such as Cinco is January 1, 2025. Cinco proposes to treat the water using carbon adsorption to meet the MCL. Included are the following items:   * A copy of the promulgated regulation, * Laboratory results showing that the well produces water that exceeds the proposed MCL, and * An EPA factsheet that:   + States that carbon adsorption is the best practice to remove *Chemical X*; and   + Indicates that water treated by carbon adsorption will generally meet the proposed MCL. |

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* + 1. Line Item 2.E – Project Directly Addresses Enforcement Documents

The Applicant may qualify for only one of the following sub-categories (Line Items 2.E.1 or 2.E.2):

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* + 1. Line Item 2.E.1 – Administrative Orders or Existing or Pending Special Orders by Consent

To earn points under this line item, the project must address one of the following:

**Points Available**

* Wastewater – 5 points
* Drinking Water – 5 points
* BIL EC Funds – Not Considered for BIL EC Funds
* An EPA Administrative Order (AO) for a local government Applicant located in a Tier 1 county, or
* An executed or pending Special Order by Consent (SOC), or
* A DEQ AO, or
* Statutory Moratorium issued under § 143-215.67 (Does not include Flow Moratorium issued under 5A NCAC 02T .0118 – 80/90 percent Rule).

*Required Documentation*

To document these points, the narrative must include the following:

* A copy of the AO or SOC highlighting the action items that include the proposed project with a statement of whether the AO or SOC is executed or pending; for a pending AO or SOC, also include the following:
  + A copy of the SOC application;
  + Regional Office contact and any correspondence with the Regional Office;
  + A description of the violations that have occurred and the necessary construction to resolve the noncompliance (i.e., demonstrate that the proposed project would correct the violations);
  + A draft construction schedule if available and a clear discussion of any potential conflicts that may arise between the Project schedule and the draft schedule;
* A description of the violations that have occurred, and the necessary construction to resolve the noncompliance (i.e., demonstrate that the proposed project would correct the violations);
* A statement that the underlying violation has not already been addressed and that the project will address the violation;
* Additional supporting documentation necessary to prove the direct link between the project and satisfying the AO or SOC and fulfilling the regulation; and
* A clear discussion of any potential conflicts that may arise between the funding schedule and the AO or SOC compliance schedule.

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* + 1. Line Item 2.E.2 – Resolves a Notice of Violation or Notice of Deficiency

To earn points under this line item, the project must address an NOV, Sanitary Defect, Required Corrective Action, or NOD that was received from a state or federal agency within three years of the date of the application and has not been completely resolved already.

**Points Available**

* Wastewater – 3 points
* Drinking Water – 3 points
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

The narrative must include:

* A copy of the NOV, NOD, Assessment, or Corrective Action Plan and all responses to the issuing agency,

**Important to Remember**

* If the NOV or NOD is related to SSOs, provide copies of the SSOs and a map showing the location of the SSOS.
* For operations and maintenance violations, projects only score these NOV points if the project will eliminate the entity that received the NOV by merger or regionalization.
* A brief summary of the applicable regulation,
* A statement that the underlying violation, deficiency, sanitary defect, or required corrective action has not been addressed already and that the project will address the issue,
* A clear explanation of how the proposed project will lead to compliance with the regulation and how the proposed project will address specific regulatory requirements, and
* Additional supporting documentation necessary to prove the direct link between the project and fulfillment of the regulation.

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| **Example Narrative for Line Item 2.E.2 (Wastewater)**  An Applicant’s WWTP has received an NOV, which documents numerous fecal coliform exceedances above the NPDES permitted effluent limit. The Chlorine Contact Chamber is known to be too small for the current flows (especially peak flows), not allowing enough chlorine contact time. Additionally, the gas chlorine storage and feed system is old and not well regulated, and the plant ORC wants to switch to liquid chlorine for safety reasons. The proposed project will build a new larger chlorine contact chamber with a new liquid chlorine storage and feed system. Included are the following items:   * A copy of the NOV and * Documentation of the existing Chlorine Contact Chamber and old gas chlorine feed system. |

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| **Example Narrative for Line Item 2.E.2 (Drinking Water)**  The Town of Deluxe performed a Level 2 Assessment under the revised total coliform rule and determined that they need to repair several identified sanitary defects. Included are the following items:   * A copy of the Level 2 Assessment and * A detailed description of the planned corrective actions to clearly explain how the issue that triggered the Level 2 Assessment requirement will be resolved. |

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* + 1. Line Item 2.F – Project Includes System Merger or Regionalization

The Applicant may qualify for only one of the following sub-line items (Line Items 2.F.1 or 2.F.2):

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* + 1. Line Item 2.F.1 – System Merger

An application may earn points if the project will merge systems. In this context, a *merger* can include either a physical consolidation of systems into a single regional system with one owner or a merger of ownership and operation without a physical consolidation of systems. Mergers can include local governments, non-profit water corporations, investor-owned utilities, or other utility ownership models as long as the Applicant is eligible to receive DWI funding. Decentralized systems to be owned, operated and maintained by the Applicant can qualify under this Line Item.

**Important to Remember**

* An applicant is eligible for these merger points up to two years after the date of merger. Such an applicant must provide documentation showing date of merger.
* Interconnectivity alone (e.g., providing only regionalized treatment) does not qualify for points under this Line Item.

**Points Available**

* Wastewater – 10 points
* Drinking Water – 10 points
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

To document these points, do the following:

* Identify the systems. Clearly identify the systems by name and include the PWSID Number if applicable (drinking water systems). State that the Applicant is the owner of the system; and
* Describe the regionalization of the system and how it is managed; and
* Describe the type of merger. The narrative must describe how the project will result in a merger and characterize the merger (for example, as a consolidation, operational or management merger).
* Describe the current and proposed relationship between the systems, including the transfer of ownership of system.
* Describe the agreements between the owner and other LGUs or utilities.
* Submit an interlocal agreement between the systems, stating the intent to merge. An interlocal agreement conditional upon other work being completed prior to the merger is acceptable. A draft interlocal agreement may also be accepted.
* Other documentation, such as a memorandum of understanding, will be considered on a case-by-case basis.

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* + 1. Line Item 2.F.2 – System Regionalization and/or System Partnerships

An application may earn points under this line item if the project will regionalize systems or result in a partnership between two or more systems that retain separate ownership. In this context, a regionalization or partnership can include the physical interconnection of wastewater systems for the purposes of regional wastewater treatment or the physical interconnection of a drinking water system with another drinking water system under separate ownership for the purposes of providing a regional water supply. System partnerships may include agreements to manage, operate, or provide staff or resources to partnering systems while not consolidating ownership of the systems.

**Points Available**

* Wastewater – 5 points
* Drinking Water – 5 points
* BIL EC Funds – Considered for BIL EC Funds

System regionalization and/or partnerships may or may not include physical interconnections. However, applications that receive Line Items 2.K.1 through 2.K.3 points will not receive additional Line Item 2.F.2 points if the project only adds or expands an interconnection (i.e. does not include a non-physical system partnership component). Regionalization can include local governments, non-profit water corporations, investor-owned utilities, or other utility ownership models as long as the Applicant is eligible to receive DWI funding.

Systems partnering with one another to address PFAS contamination may be eligible for Line Item 2.F.2 points if the project claims and receives either Line Item 2.H.2 or 2.H.4 points. The narrative must explain how the partnership will benefit measures to address PFAS contamination of one or all partnering entities.

**Important to Remember**

For projects addressing PFAS, eligibility of Line Item 2.F.2 is limited to new and proposed partnerships specifically formulated to address PFAS contamination.

*Required Documentation*

To document these points, do the following:

**Important to Remember**

An applicant is eligible for these regionalization points up to two years after the date of regionalization. Such an applicant must provide documentation showing date of the agreement.

* Identify the systems. Clearly identify the systems by name and include the PWSID Number if applicable (drinking water systems only). State who owns each system;
* Describe the regionalization of the system and how it is managed; and
* Describe the type of regionalization. The narrative must describe how the project will result in a regionalization.
* Describe the current and proposed relationship between the systems, including any physical interconnections, agreements to share capacity or services or staff.
* Describe the agreements between the owners of each system.
* Submit an interlocal agreement (ILA) between the systems, stating the intent to regionalize or partner with systems on a long-term basis. An ILA conditional upon other work being completed prior to the partnership or regionalization taking effect is acceptable. A draft ILA may also be accepted.
* Other documentation, such as contractual agreements or a memorandum of understanding (MOU) or Board resolution of intent to regionalize or partner with another system, will be considered on a case-by-case basis.
* If a project is requesting SRF-EC funds, describe how the partnership will help address the existing PFAS contamination issue.

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* + 1. Line Item 2.G – Project Addresses Documented Low Pressure

To earn points under this line item, the project must address documented low pressure within a system (pressures below the 20/30 psi described in T15A NCAC 18C .0901) within the last five years.

**Points Available**

* Wastewater – Not Applicable
* Drinking Water – 10 points
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

The narrative must include the following:

* A discussion of the existing low pressure in the system,
* Documentation showing the low pressure identified within the last five years,
* Discussion of how the project will resolve low pressure issues in the system, and
* A map showing the locations of the pressure problems and project area.

Follow the instructions in the *Factsheet:* [*Documenting Low Pressure*](https://files.nc.gov/ncdeq/WI/Application_Info/Factsheet_Pressure_Points_2017-02-16.pdf) to document the pressure problems to be addressed by the proposed project.

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* + 1. Line Item 2.H – Project Addresses Contamination

The Applicant may qualify for only one of the following sub-categories (Line Items 2.H.1, 2.H.2 or 2.H.3).

For contamination affecting an unregulated system**, i**f the project is funded and the contamination affects an unregulated system, the follow-up engineering report must formally compare the proposed project to other feasible alternatives to determine the most cost-effective solution to the problem. In many cases, point of use or other treatment will be more cost-effective than waterline extensions, and the project may lose funding.

To be eligible for 2.H.4 points under drinking water project priority system, documentation must show that the existing treatment does not reduce the contaminant concentrations to levels below the relevant limits in the treated/finished water. Projects addressing PFAS in wastewater stream of drinking water treatment facilities or Reverse Osmosis reject water are not eligible for Drinking water Emerging Contaminants principal forgiveness funds. However, these projects are eligible for Clean Water SRF-EC funds and Drinking Water SRF/SRP general funds.

To earn points for any one of these line items, the documentation must show that the project will improve water quality.

If the water source that is contaminated is out of service due to that contamination, the narrative must justify the need for restoring this capacity to meet the permit requirements.

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* + 1. Line Item 2.H.1 – Acutely Contaminated Water Supply System Source

To earn points under Line Item 2.H.1, the project must replace or provide new treatment to an acutely contaminated drinking water supply system. Such a drinking water supply system does not need to be regulated as a public water supply system.

**Points Available**

* Wastewater – Not Applicable
* Drinking Water – 15 points
* BIL EC Funds – Not Considered for BIL EC Funds
* In this context, *contaminated* means that the water contains and once did not contain some substance or characteristic so that the existing treatment – operated properly – no longer can meet the primary MCLs listed in T15A NCAC 18C .1500 *et seq*. An example is a well with water that has changed to exceed an MCL or that now includes unregulated precursors (not regulated themselves) that require additional treatment to meet standards for disinfection byproducts. (Treated water that exceeds a secondary MCL does not qualify as contaminated for purposes of points.)

**Important to Remember**

A project that earns priority points for acute contamination under Line Item 2.H.1 cannot also earn points for under Line Item 2.H.2 or 2.H.3.

* In this context, *acutely contaminated* means that the issue required (or, for an unregulated water supply *would have* required) Tier 1 Public Notice under Table 1 of 40 CFR 141.202 (adopted by reference into T15A NCAC 18C .1523). The list of covered contaminants currently includes the following:
* *E. coli*, enterococci or coliphage in certain groundwater samples,
* Nitrate, nitrite, or total nitrate and nitrite,
* Turbidity at the entry point of the distribution system for a surface water system (i.e., not for wellwater), and
* Certain other occurrences limited to
  + Exceedance of the Action Level for lead;
  + Waterborne disease outbreak;
  + Other waterborne emergency, and
  + Other situations as determined by PWS

*Required Documentation*

The narrative must describe the change in the quality of the source water and must include the following:

* A copy of the regulation;
* A description of the contaminated source:
* The source type (e.g., well, surface water) and production capacity;
* When and how the contamination was discovered; and
* To the extent known, when, how and why the source became contaminated;
* A description as to how the project will solve the failure or contamination;
* A map showing the location of the project, the service area of the impacted community including the PWSID number, and the location of the failing or contaminated source;
* A description of the affected population, number of connections, and length and diameter of water line needed;
* Document acute contamination of a Public Water Supply System by providing a copy of the Public Notices that were issued and a statement that the project is necessary to address the contamination events;
* Unregulated water supplies may include individually-owned wells or a shared well serving a group of homes too small to be subject to the Safe Drinking Water Act (SDWA) (e.g. 15 connections or 25 people). If the contamination does not affect a public water supply system, then the application must include a sampling report that follows the instructions in the document: [*Guidance for documenting*](https://files.nc.gov/ncdeq/WI/DWSRF/WellSamplingReportGuidance_V3.0.pdf) *public health priority points by sampling individually owned wells.*

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| **Example Narrative for Line Item 2.H.1**  Water at three of the Town of Anytown’s five wells have had five *E. coli* MCL violations in the past three years. The other two wells have had one *E. coli* MCL violation each. The town was on a boil-water notice twice in the last three years. Based on a camera survey of the wells, the town believes the well construction allows water from the surficial aquifer to enter the well and that future boil-water notices are inevitable as long as the town continues to use these wells. Anytown proposes to construct an interconnection with the City of Metropolis and abandon all the wells. Included is the following:   * A copy of the regulation. * Laboratory results for the three wells. * Copies of each MCL violation over the past three years. * A map showing the proposed route of the interconnection. * An interlocal agreement in which the City of Metropolis commits to provide sufficient water to Anytown. |

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* + 1. Line Item 2.H.2 – Other than Acutely Contaminated Water Supply System Source

To earn points under Line Item 2.H.2, the project must replace or provide new treatment to a contaminated (but not acutely contaminated) drinking water supply system. Such a drinking water supply system does not need to be regulated as a public water supply system. If the water source that is contaminated is out of service due to that contamination, the narrative must justify the need for restoring this capacity to meet the permit requirements.

**Points Available**

* Wastewater – Not Applicable
* Drinking Water – 5 points
* BIL EC Funds – Not Considered for BIL EC Funds
* In this context, *contaminated* means that the water contains and once did not contain some substance or characteristic so that the existing treatment – operated properly – no longer can meet the MCLs listed in T15A NCAC 18C .1500 *et seq*. An example is a well with water that has changed to exceed an MCL or that now includes unregulated precursors (not regulated themselves) that require additional treatment to meet standards for disinfection byproducts.

**Important to Remember**

A project that earns priority points for other than acute contamination under Line Item 2.H.2 cannot also earn points under Line Item 2.H.1, 2.H.3 or 2.H.4.

* Projects that address Manganese and 1,4-Dioxane will also be included in this category based on EPA’s lifetime health advisory limits as standards. HAL for Manganese is established in the 2018 Edition of the Drinking Water Standards and Health Advisories Tables (*https://www.epa.gov/sdwa/drinking-water-health-advisories-has)*

The Environmental Protection Agency (EPA) recommends that the levels of 1,4-dioxane in drinking water that children drink for 1 day not exceed 4 milligrams per liter (mg/L) or 0.4 mg/L, if they drink water for 10 days. However, EPA has not established a federal drinking water standard (maximum contaminant level or MCL).

*Required Documentation*

The narrative must describe the change in the quality of the source water and must include the following:

* A copy of the regulation;
* A description of the contaminated source:
* The source type (e.g., well, surface water) and production capacity;
* When and how the contamination was discovered; and
* To the extent known, when, how and why the source became contaminated;
* A description as to how the project will solve the failure or contamination;
* A map showing the location of the project, the service area of the impacted community including the PWSID number, and the location of the failing or contaminated source may be helpful to clarify project objectives;
* A description of the affected population, number of connections, and length and diameter of water line needed;
* Document other-than-acute contamination of public water supply system by providing copies of the most recent compliance sampling reports submitted to the DWR PWS that show the contamination and a statement that the project is necessary to address the contamination events;
* Unregulated water supplies may include individually-owned wells or a shared well serving a group of homes too small to be subject to the Safe Drinking Water Act (SDWA) (e.g. 15 connections or 25 people). If the contamination does not affect a public water supply system, then the application must include the most recent sampling report that follows the instructions in the document: [*Guidance for documenting public health priority points by sampling individually owned wells*](https://www.deq.nc.gov/wellsamplingreportguidancev30pdf/download)*.*

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* + 1. Line Item 2.H.3 – Project Addresses PFAS Compounds Exceeding 10 ppt or State-Established Regulatory Standards and Line Item 2.H.4 – Project Addresses PFAS Compounds Exceeding MCL or Hazard Index

To earn points under Line Item 2.H.3 or 2.H.4, the project must replace or provide new treatment to a drinking water supply system or a wastewater treatment system that produces or discharges water containing the PFAS compounds listed below. Such a drinking water system does not need to be regulated as a public water supply system.

**Points Available for Line Item 2.H.3**

* Wastewater – 2 points
* Drinking Water – 2 points
* BIL EC Funds –Considered for BIL EC Funds

**Points Available for Line Item 2.H.4**

* Wastewater – 5 points
* Drinking Water – 50 points
* BIL EC Funds –Considered for BIL EC Funds

To be eligible for Line Item 2.H.3. points the project must address any PFAS compounds exceeding 10 ppt where the proposed project will have a design level of below detection level for that compound.

To be eligible for Line Item 2.H.4. points the project must address:

* PFOA and/or PFOS compounds exceeding MCL of 4.0 ppt where the proposed project will have a design level of below MCL, or

**Important to Remember**

Addressing PFAS means:

* New water supply meets proposed MCLs, is below Hazard Index (if established), and is below detection level for any other non- regulated PFAS compounds, or
* Treatment processes are designed to reduce respective emerging contaminants to below proposed MCLs, below the HI (if established) or below detection level for any other non- regulated PFAS compounds.
* GenX, PFNA and PFHxS compounds exceeding MCL of 10 ppt where the proposed project will have a design level below MCL, or
* Mixtures containing two or more of GenX, PFNA, PFHxS and PFBS exceeding the Hazard index of 1, where the proposed project will be designed to get the Hazard Index below 1.

Note: *Health based concentration for PFNA to calculate HI is 2000 ppt. Compliance with the Hazard Index MCL is determined by a running annual average of quarterly samples.*

*Required Documentation*

The narrative must describe how the project will address PFAS in the quality of the finished drinking water, discharged wastewater, or wastewater residuals (including residuals from the drinking water treatment process) as a result of the proposed project in meeting the respective MCLs, and must include the following:

* A description of the contaminated source
* The source type (e.g., well, surface water, wastewater) and production capacity (if applicable);
* When and how the contamination was discovered; and

**Important to Remember**

Refer to Federal Register / Vol. 88, No. 60 / Wednesday, March 29, 2023 / Proposed Rules for details on EPA’s Proposed MCLs and on how to calculate Hazard Index.

* When, how and why the source became contaminated, if known;
* Document the presence of PFAS by providing copies of the most recent laboratory test results showing that the PFAS compounds in the finished drinking water or discharged wastewater exceed the MCLs for PFOA, PFOS, HI for an individual or combination of GenX, PFBS, PFNA and PFHxS, or 10 ppt for any other unregulated PFAS compound. The lab must use a validated drinking water method, such as EPA Method 533 or 537.1, or a validated non-potable water method, such as Method 8327 or 1633.
  + Public water systems must provide at least one sample exceeding a threshold value(s) and data should not be older than 12 months from the date of application.
  + Private or individual drinking water wells must provide at least one sample exceeding a threshold value(s) and data should not be older than three years from the date of application.
* If the project is addressing more than one contaminated well or discharge system, provide a summary table listing each well or discharge and its most recent laboratory test result for the exceeded detection level/ MCLs or Hazard Index.
* A description as to how the project will address PFAS
  + Description of new or improved water or wastewater infrastructure (if applicable);
  + Description of the anticipated levels of PFAS after the treatment or changing source;
* A description of the affected population
  + For public systems: A map showing the location of the project, the service area of the impacted community and/or discharge location, and the location of the contaminated source;
  + For private systems: A project map that clearly shows specific locations of street names and house numbers of wells with Emerging contaminant exceedances,
* The PWSID and number of water service connections or NPDES permit and discharge location (if applicable)
* If the project is addressing more than one contaminated well or discharge system, provide a summary table listing each well or discharge and its most recent laboratory test result for the exceeded detection level/ MCLs or Hazard Index.
* A map showing the location of the project, the service area of the impacted community including the PWSID number, and the location of the failing or contaminated source may be helpful to clarify project objects.

Please note that Wastewater residuals and wastewater stream generated as a result of drinking water treatment can only be eligible to receive CWSRF-EC funds

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* + 1. Line Item 2.I – Additional Treatment

To earn points under this line item, there must be an existing treatment system, and the project must install an additional or upgraded unit that provides additional treatment that improves the quality of the wastewater treatment plant effluent or the drinking water quality. Points under this line item are available for construction projects only. Pre-construction/planning projects or studies are not eligible for these points.

**Points Available**

* Wastewater – 3 points
* Drinking Water – 3 points
* BIL EC Funds – Not Considered for BIL EC Funds

New equipment must provide an improvement from the existing treatment as it was designed to operate when it was new. Projects with new treatment equipment to address a contaminant or treatment goal for which there is no current treatment are eligible for these points. The narrative must explain how the new equipment provides additional treatment or improved effluent quality.

**Important to Remember**

Treatment needed to meet a regulatory standard might qualify for additional points under Line Items 2.C.1, 2D, 2.E.1, and/or 2.E.2.

To receive these points, the additional treatment must result in an overall decreased pollutant load to the receiving waterbody at the future permitted capacity, not just a decrease in effluent concentration. Calculations must be provided to show the decreased pollutant load.

Example projects likely not eligible for these points.

* Adding automated shut-off for operational malfunction (such as automated well shut-off for chlorine failure) does not qualify as improving treated effluent or water quality.
* Adding a new unit treatment operation providing resiliency or redundancy but does not improve quality of water.
* Replacing old, inefficient, or malfunctioning equipment with similar equipment.
* Connecting a water system to a new public water supply system through interconnection, merger, or other regionalization.

*Required Documentation*

The narrative must include the following:

* A discussion of the existing and proposed water or liquid wastewater treatment trains;
* A discussion of the proposed additional treatment unit(s); and
* A discussion of how the proposed treatment will improve the quality of water.
* For wastewater expansion, a discussion of pollutant loading to receiving stream with and without the additional treatment.

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| **Example Narrative for Line Item 2.I (Wastewater)**  The liquid treatment train of a town’s WWTP currently has two small clarifiers, which are undersized for the current average flows, and especially peak flows. The NPDES permit TSS monthly limit of 30 mg/l is close to being exceeded (but not quite), and the plant ORC is worried that peak flows will cause TSS effluent violations.   * The Town proposes to install a new third clarifier along with a new clarifier flow splitter box. The addition of the third clarifier will greatly reduce clarifier solids loading rate and should lead to lower TSS in the effluent. |

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| **Example Narrative for Line Item 2.I (Drinking Water)**  The Town of Anytown currently provides only disinfection at all five of its wells. The newest well (Well #7) provides large quantities of water with approximately 0.20 mg/l iron (below the state-regulated level for iron of 0.30 mg/l). [T15A NCAC 18C .1511] However, after commissioning Well #7, the Town began to receive complaints about laundry and fixture staining.  The Town proposes to install a polyphosphate chemical feed system at Well #7 to sequester iron and improve the aesthetic acceptability of the water. |

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* + 1. Line Item 2.J – Address Water Loss

An application may earn points if the project will address water loss exceeding 30 percent in the system. Such a project would include the following examples:

**Points Available**

* Wastewater – Not Applicable
* Drinking Water – 3 points
* BIL EC Funds – Not Considered for BIL EC Funds
* **Altitude valve.** A project that installs an altitude valve to prevent overflowing of a tank that currently overflows frequently and is believed to be the source of a substantial fraction of the system’s water loss.
* **Waterline replacement.** A project that replaces a section of line that has experienced frequent breaks and is believed to be the source of a substantial fraction of the system’s water loss.

*Required Documentation*

To document these points, provide the following:

* Water loss. Both of the following two items must document that the system’s water loss exceeds 30 percent:
  + The most recent water audit (only one year required), which must meet the requirements discussed under Line Item 3.D (*Water Loss Reduction Plan*). Water audits can be performed either by using AWWA methodology or using DWR’s “small system water audit”. A small system water audit can be performed using the following tool. [https://www.ncwater.org/WUDC/app/LWSP/files/small\_system\_water\_audit.xlsm](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.ncwater.org%2FWUDC%2Fapp%2FLWSP%2Ffiles%2Fsmall_system_water_audit.xlsm&wdOrigin=BROWSELINK)
  + The water loss in the system’s most recent complete Local Water Supply Plan (LWSP). For more information on LWSPs see <http://www.ncwater.org/Water_Supply_Planning/Local_Water_Supply_Plan/> .
* That the unit is responsible. The narrative must explain why it is believed that the unit to be modified is responsible for the excessive water loss. For example:
  + For a project to add an altitude valve, estimate the losses from tank overflows.
  + For a project to replace a waterline, estimate the water loss from leaks.
  + Show all calculations and assumptions.
* That the project will reduce water loss from the unit. The narrative must credibly explain how the proposed project will reduce water loss. In particular, the narrative must estimate the post-project system-wide water loss.

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| **Example Narrative for Line Item 2.J**  The Town of Folger has a 12-inch waterline running down Elm Street that has had three breaks in a ten-block area over the last two years. The line is 60 years old and has small cracks that leak continuously. The last break caused the town to lose over one million gallons of water in one month and caused a sinkhole in the street. Folger believes that this line causes much of the high water loss because water losses in Folger’s water system were less than 20% before the first Elm Street waterline failure. Included in this application are the following:   * A copy of the most three most recent water audits showing the following water losses:   2018-2019 18 percent  2019-2020 28 percent (the first break occurred in January)  2020-2021 34 percent   * A copy of the Local Water Supply Plan that shows 32 percent water loss for calendar year 2021. The LWSP and water audit agree with each other reasonably well (considering the different time periods) and agree that water loss exceeds 30 percent   By repairing The Elm Street waterline, Folger estimates it will save one million gallons per month. This water loss was estimated by assuming water loss drops from 32 percent to 22 percent (which is higher than the previous average of less than 15 percent). |

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* + 1. Line Item 2.K – Water System Interconnection

The Applicant may qualify for only one of the following sub-categories (Line Items 2.K.1, 2.K.2, or 2.K.3) for an interconnection between two separate systems. A project that merges systems or that connects pressure zones of the same system (as defined by PWSID) does not qualify.

To earn points under these line items, the proposed project itself must create the interconnection. The following do not earn these points:

* A project that claims these points simply because the system already has an interconnection;
* A project that facilitates future work to create an interconnection that the project itself does not create; or
* A project that strengthens the hydraulics to improve the performance of an existing or future interconnection that the project does not itself create.

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* + 1. Line Item 2.K.1 – Interconnection Between Systems Not Previously Connected

To earn points under this line item, the project must create a new interconnection of potable water between two or more public water supply systems not previously interconnected.

**Points Available**

* Wastewater – Not Applicable
* Drinking Water – 10 points
* BIL EC Funds – Not Considered for BIL EC Funds

*Require-d Documentation*

The narrative must include the following information:

* Identify by name and PWSID No. the systems that will be interconnected;
* Explicitly state that there is no current interconnection between these systems;
* Include a map showing the location of the two systems that will interconnect, including the project area, the route of any existing interconnection, and the route of the proposed interconnection; and
* Document that both sides of the proposed interconnection are willing to interconnect by including information such as copies of draft or final agreements for the interconnection. Interconnections of systems owned by the applicant do not require this documentation.

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| **Example Narrative for Line Item 2.K.1**  The City of Somewhere (PWSID No. NC 01234567) operates a 20 MGD surface water treatment plant. Somewhere’s average daily demand is 7 MGD and its maximum daily demand is 14 MGD.  The Town of Anytown (PWSID No. NC 2345678) operates five wells yielding a total of 1.0 MGD. Anytown’s average daily demand is 0.4 MGD and its maximum daily demand is 0.9 MGD.  The City of Somewhere and the Town of Anytown are not currently interconnected. The City of Somewhere agreed to create a new interconnection with the Town of Anytown. The draft interlocal agreement (included) establishes that upon completion of the project:   1. The City of Somewhere agrees to sell up to 2 MGD to the Town of Anytown. 2. The Town of Anytown agrees to pay for a minimum use of 0.05 MGD.   A map of the proposed 8-inch interconnection is included. |

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* + 1. Line Item 2.K.2 – Additional or Larger Interconnection That Meets Public Health Needs

To earn points under this line item, the project must create (or increase the capacity of) an interconnection of potable water between two or more public water supply systems that are already previously interconnected such that the first system can fully meet the public health needs of the second system. It is not necessary to show that each system can meet the public health needs of the other system, only that one system’s public health needs can be met.

**Points Available**

* Wastewater – Not Applicable
* Drinking Water – 10 points
* BIL EC Funds – Not Considered for BIL EC Funds

In this context, *“Public Health Needs”* means water sufficient to satisfy the residents’ cooking, cleaning and hygiene needs. If the supplier cannot meet the Average Daily Demand of the recipient, then the Applicant must develop a system-specific estimate of the demand reduction that the recipient can impose by e.g., emergency restrictions on water use. Increasing capacity of an existing interconnection without fully meeting the public health needs of the second system does not qualify for points.

*Required Documentation*

The narrative must include the following information:

* Identify by name and PWSID No. the systems that will be interconnected;
* Discuss the demands and capacities of the systems that will be interconnected;
* Discuss the capacity of any existing interconnection and the proposed interconnection;
* Document the following:
  + That currently, one system cannot satisfy the public health needs of the second system using all available interconnections; and
  + That the proposed project will allow that one system to meet the public health needs of the second system. It is not necessary to show that each system can meet the public health needs of the other system;
* Include a map showing the location of the two systems that will interconnect including the project area, the route of any existing interconnection and the route of the proposed interconnection; and
* Document that both sides of the proposed interconnection are willing to interconnect by including information such as copies of draft or final agreements for the interconnection.

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| **Example Narrative for Line Item 2.K.2**  The City of Somewhere (PWSID No. NC 01234567) operates a 20 MGD surface water treatment plant. Somewhere’s average daily demand is 7 MGD, and its maximum daily demand is 14 MGD.  The Town of Anytown (PWSID No. NC 2345678) operates a 1.0 MGD surface water treatment plant. Anytown’s average daily demand is 0.4 MGD, and its maximum daily demand is 0.9 MGD.  The current interconnection between Somewhere and Anytown has a capacity of only 0.2 MGD, which does not meet the public health needs of Anytown. Anytown experiences high levels of siltation at its raw water intake station during intense rain storms. The included draft “Interlocal Agreement for Emergency Purposes” establishes that the Somewhere will sell up to 2.0 MGD to Anytown as provided in the Agreement (thus meeting the public health needs of Anytown). A map of the proposed 12-inch interconnection is included. |

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* + 1. Line Item 2.K.3 – Any Other type of Interconnection

To earn points under this line item, the project must create any other type of interconnection between systems.

**Points Available**

* Wastewater – Not Applicable
* Drinking Water – 5 points
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

The narrative must include the following information:

* Identify by name and PWSID Number the systems that will be interconnected;
* Include a map showing the location of the two systems that will interconnect, including the project area, the route of any existing interconnection, and the route of the proposed interconnection; and
* Document that both sides of the proposed interconnection are willing to interconnect by including information such as copies of draft or final agreements for the interconnection.

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| **Example Narrative for Line Item 2.K.3**  The City of Somewhere (PWSID No. 0123456) operates a 20 MGD surface water treatment plant. Somewhere’s average daily demand is 7 MGD and its maximum daily demand is 14 MGD.  The Town of Anytown (PWSID No. 2345678) currently purchases up to 2 MGD (see included final ILA) from the City of Somewhere through the 40-year old, 8-inch Northside Interconnection. Anytown’s average daily demand is 0.9 MGD and its maximum daily demand is 2 MGD.  Anytown proposes to build a new 8-inch Southside Interconnection to provide a redundant supply. Either interconnection (working alone) will be capable of meeting Anytown’s maximum daily demand of 2 MGD. The proposed project has the potential to increase Anytown’s system capacity by removing the 2 MGD bottleneck of the existing Northside Interconnection. But the proposed project will not change the City of Somewhere’s capacity. A map of the proposed 8-inch interconnection is included.  Note that this project does not earn points under 2.L.2 because the existing interconnection can already meet the public health needs of Anytown. |

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* + 1. Line Item 2.L and Line Item 2.M – Reserved for the CDBG-I Program

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* + 1. Line Item 2.N – Redundancy to Critical Treatment, Delivery, or Collection Systems

The application can earn priority points for providing redundancy or resiliency for critical treatment and/or transmission/distribution and/or collection system functions. The application can earn priority points for only one line item under 2.N.

Document these priority points by providing the specific documentation discussed under Line Items 2.N.1-2.N.7:

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* + 1. Line Item 2.N.1 – Relocates Infrastructure from inside the 100-Year Floodplain to outside the 500-Year Floodplain, Line Item 2.N.2 – Relocates Infrastructure Out of the 100-Year Floodplain, Line Item 2.N.3 – Relocates Infrastructure from Between the 100-Year Floodplain and the 500-Year Floodplain

For Line Items 2.N.1 through 2.N.3, the application can earn points for relocating infrastructure that lies in a floodplain into a lower-risk area, which reduces the infrastructure’s susceptibility to damage by flooding. Moving underground infrastructure including hydrants are not eligible for Line Items 2.N.1 through 2.N.3. but may be eligible for Line Item 2.N.7. The number of priority points depends on which floodplain area boundaries the relocation crosses.

*Required Documentation*

**Line Item 2.N.1 Points Available**

* Wastewater – 8 points
* Drinking Water – 8 points
* BIL EC Funds – Not Considered for BIL EC Funds

**Line Item 2.N.2 Points Available**

* Wastewater – 5 points
* Drinking Water – 5 points
* BIL EC Funds – Not Considered for BIL EC Funds

**Line Item 2.N.3 Points Available**

* Wastewater – 3 points
* Drinking Water – 3 points
* BIL EC Funds – Not Considered for BIL EC Funds

Document these priority points in as follows:

* Describe in the narrative the infrastructure that is being relocated outside of the 100- or 500-year floodplain into a lower-risk area; and
* Provide map(s) that clearly show where the existing and relocated infrastructure lie in relation to the floodplains.
  + The map must clearly show the location of both the existing and proposed infrastructure;
  + The map must clearly show the flood plain boundaries across which the infrastructure will be relocated; and
  + The map must clearly show that the existing infrastructure lies within a higher-hazard flood plain than the proposed infrastructure;

Provided map(s) must use FRIS or FEMA as the source of the data layer or flood elevations used (<https://fris.nc.gov>). The provided map(s) must include a legend explaining all symbols appearing on the map, the north arrow, and the scale; and the map(s) must clearly indicate which side of the boundary line is the flood plain by showing the water body or using shading or other marking.

Figure 1 illustrates the differences in Line Items 2.N.1, 2.N.2, and 2.N.3.

![A diagram of a stream

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEt1YmFja2ksIFN1c2FuAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADMTEAAJKSAAIAAAADMTEAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 1. Differences Related to line Items 2.N.1, 2.N.2, and 2.N.3.**

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| **Important Remember**  The Division will accept the 100-year Floodplain (1% Annual Chance Floodplain) and 500-year Floodplain (0.2% Annual Chance Floodplain) as designated on the North Carolina Flood Risk Information Center available at <https://fris.nc.gov>.The 100-year Floodplain is also designated as the Special Flood Hazard Area (SFHA). SFHA are defined as the area that will be inundated by the flood event having a 1-percent chance of being equaled or exceeded in any given year. The 1-percent annual chance flood is also referred to as the base flood or 100-year flood. SFHAs are labeled as Zone A, Zone AO, Zone AH, Zones A1-A30, Zone AE, Zone A99, Zone AR, Zone AR/AE, Zone AR/AO, Zone AR/A1-A30, Zone AR/A, Zone V, Zone VE, and Zones V1-V30. The 500-year Floodplain is also referred to as the 0.2% Annual Chance Floodplain, the “area of minimal flood hazard”, Zone C, or Zone X. The 100-Year Floodplain and 500-year Floodplain must be clearly labeled on the map, and the source of the floodplain data must be provided.  The Division may accept other floodplains on a case-by-case basis only if no NFIP base elevation exists for the area. To use an alternate map, applicants must obtain the Division’s approval of the map prior to the application submittal deadline. |

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| **Example Narratives for Line Item 2.N.1**  **Narrative that IS NOT sufficient:** The project will move the existing Flat Creek Pump Station from its current location, which flooded during Hurricane Michael, to a new site two blocks away that did not flood during Hurricane Michael. **(Not sufficient because there is no documentation included showing the current location is located within the 100-year floodplain and that the proposed new location is outside of that floodplain.)**  **Narrative that IS sufficient:** The project will move the existing Flat Creek Pump Station from Location1 (-78.747620, 35.9002375 degrees), which is within the 100-year floodplain to Location2 (-78.748835, 35.902638 degrees), which is outside of the 500-year floodplain. The attached map shows that Location1 is in the 100-year floodplain and that Location2 is outside of the 500-year floodplain. The maps were printed from <https://fris.nc.gov>. |

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* + 1. Line Item 2.N.4 – Fortify/Elevate Infrastructure within 100-Year Floodplain (without Relocating It Out of floodplain)

The application can earn points for fortifying or elevating infrastructure within the 100-year floodplain without the need to relocate it out of the floodplain.

**Points Available**

* Wastewater – 4 points
* Drinking Water – 4 points
* BIL EC Funds – Not Considered for BIL EC Funds
* Fortifying includes replacing equipment with new equipment not subject to being damaged by submersion (such as submersible pumps or waterproofed manholes).
* Fortifying also includes physical barriers (such as levies or floodgates).
* Elevating typically includes installing electrical equipment on platforms.

Physical barriers and elevating require a minimum of two feet of freeboard above the base flood elevation (BFE).

*Required Documentation*

Document these priority points in the narrative as follows:

* Determine the BFE from the North Carolina Flood Risk Information System available at <https://fris.nc.gov>;
* Provide map(s) that clearly show where the infrastructure lies in relation to the floodplain and how the BFE was determined:
  + The map must clearly show the location of the infrastructure;
  + The map must clearly show the BFEs at the location of the infrastructure;
  + Provided map(s) must use FRIS or FEMA as the source of the data layer or flood elevations used (<https://fris.nc.gov>);
  + The provided maps must include a legend explaining all symbols appearing on the map, the north arrow, and the scale;
* Describe the vulnerable components of the existing infrastructure that are below the BFE established above;
* Describe how the project will elevate/protect those vulnerable components of the existing infrastructure;
* Describe how the project will achieve the required two feet of freeboard (or higher freeboard as required for local permitting) above the BFE that the elevated infrastructure or the barriers will have; and
* Alternatively, describe how the vulnerable infrastructure is replaced by infrastructure that is not vulnerable to flooding, such as submersible wet-pit/dry-pit pumps.

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| **Example Narratives for Line Item 2.N.4**  **Narrative that IS NOT sufficient:** Improvements will be made at the existing Flat Creek Pump Station to replace the electronic control system with a new system constructed on a 10-foot tall platform. **(Not sufficient because the narrative does not demonstrate that the new infrastructure will have at least 2 feet of freeboard above the base flood elevation.)**  **Narrative that IS sufficient:** The control structures and pump motors at the existing Flat Creek Pump Station sit at between 387 and 393 feet MSL. The attached maps printed from <https://fris.nc.gov> show that the base flood elevation is 395 feet. The project will protect the infrastructure as follows:   * The replacement electronic control system will be constructed on a 10-foot tall platform, so that the lowest vulnerable control component will be at 397 feet (two feet above the base flood elevation). * The Westerly Pumps are vertical turbine line-shaft pumps with submerged pump bodies. However, the drive motors are mounted below 393 feet MSL. These pumps will be hardened by installing longer line shafts and re-mounting the drive motors at 397 feet MSL (two feet above the base flood elevation). * The Easterly pumps will be replaced by submersible pumps that are not subject to damage by flooding. The control panels will be elevated to 397 MSL for protection.   **Narrative that IS NOT sufficient:** Hurricane Zebra destroyed 100 homes on the East side of town, reducing the population by 300. This project replaces sewers on the West side of town (project not related to the area with reduced population).  **Narrative that IS sufficient:** Hurricane Zebra destroyed 100 homes on the East side of town, reducing the population by 300. There are now four sections of 15-inch gravity sewer on that East side of town that serve no more than three homes each, resulting in wet-weather flows more than 10x dry-weather flows. In addition, the flow from the remaining houses is not sufficient to scour the 15-inch sewer. This project replaces those 15-inch sewers with 8-inch to meet the minimum allowable size in MDCs. |

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* + 1. Line Item 2.N.5 – Assure Continuous Operation of Infrastructure Located within the 100-Year Floodplain (without Relocating It Out of Floodplain)

A project can earn points for improving the system’s ability to assure continued operation during flood events.

**Points Available**

* Wastewater – 4 points
* Drinking Water – 4 points
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

Document these priority points in the narrative by:

* Describing how the project improves the system’s ability to assure continued operation of infrastructure located within the 100-year floodplain during flood events.

**Important to Remember**

**Note:** Projects eliminating water supply wells with a water supply outside of the 100-year flood elevation, or projects providing redundant water supply from outside of the 100-year flood elevation are eligible for 2.N.5 points.

* Providing map(s) that clearly show where the infrastructure lies in relation to the floodplain:
  + The map must clearly show the location of the infrastructure;
  + Provided map(s) must use FRIS or FEMA as the source of the data layer or flood elevations used (<https://fris.nc.gov>)
  + The provided maps must include a legend explaining all symbols appearing on the map, the north arrow, and the scale;

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* + 1. Line Item 2.N.6 – Downsize Infrastructure Related to Buyouts

The application can earn points for projects that reduce the size of infrastructure as a result of a buyout or other abrupt loss of flow or population. To document these points in the narrative, explain how and why the population declined and how that smaller population is better served by reduced-size infrastructure.

**Points Available**

* Wastewater – 4 points
* Drinking Water – 4 points
* BIL EC Funds – Not Considered for BIL EC Funds

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| **Example Narratives for Line Item 2.N.6**  **Narrative that IS NOT sufficient:** Hurricane Zebra destroyed 100 homes on the east side of town, reducing the population by 300. This project replaces sewers on the west side of town (project not related to the area with reduced population).  **Narrative that IS sufficient:** Hurricane Zebra destroyed 100 homes on the east side of town, reducing the population by 300. There are now four sections of 15-inch gravity sewer on that east side of town that serve no more than three homes each, resulting in wet-weather flows more than 10x dry-weather flows. In addition, the flow from the remaining houses is not sufficient to scour the 15-inch sewer. This project replaces those 15-inch sewers with 8-inch to meet the minimum allowable size in MDCs. |

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* + 1. Line Item 2.N.7 – Project Provides Redundancy/Resiliency for Critical Treatment and/or Transmission/Distribution System Functions Including Cybersecurity and/or Backup Electrical Power Source

For another resilient item such as a redundancy, emergency power source, or eligible cybersecurity component:

**Points Available**

* Wastewater – 3 points
* Drinking Water – 3 points
* BIL EC Funds – Not Considered for BIL EC Funds
* Include the resilient item in the application’s project description.

*Required Documentation*

In the narrative, explain how the resilient item provides redundancy and/or resiliency.

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| **Important To Remember**  Replacing or repairing an existing generator or redundant unit does not earn these points. The redundancy or resiliency must be new or increased.However, replacing a portable generator with a fixed generator will earn these points.  Retrofitting existing equipment with backup power qualifies for points; new equipment that requires backup power does not get these points.  Replacing aged (and failure prone) infrastructure in kind does not earn these points.  Adding a hardware firewall to an existing SCADA system and keeping it updated is a cybersecurity component that can earn these points.  By policy, line looping does not earn redundancy points. |

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| **Example Narratives for Line Item 2.N.7**  **Narrative that is NOT sufficient**: The new waterline loops will allow water to flow from either direction. **(Not sufficient because b*y policy, looping does not earn redundancy points.*)**  **Narrative that is NOT sufficient:** The project will replace the existing broken and unrepairable 25,000 kW generator. ***(Not sufficient because it doesn’t add redundancy; it restores redundancy.)***  **Narrative that IS sufficient:** The project description contains “Rehabilitate existing WTP without expanding capacity including the following: … Install redundant third filter to enable the plant to operate at full capacity with any single filter out of service…” For this particular line item, the narrative would be “The redundant third filter will enable the plant to operate at full capacity with any single filter out of service and will not increase capacity.”  **Narrative that IS sufficient:** The project description contains “Rehabilitate existing WTP without expanding capacity including the following: … provide backup power to the high service pumps…” For this particular line item, the narrative would be “The plant currently has emergency power for the treatment train and necessary controls. The plant hydraulics allow water to flow through the plant and into the clearwell. Without the ability to pump water from the clearwell, however the plant cannot provide additional water to the town once the power fails. The project will provide backup power to the high service pumps enabling the plant to provide water to the town during an extended outage.”  **Narrative that IS sufficient:** Rehabilitate existing WTP without expanding capacity, including installation of redundant third filter to enable the plant to operate at full capacity with any single filter out of service.  **Narrative that IS sufficient: The project will expand the plant from 10 to 12 MGD and increase the backup power available.** The plant currently has emergency power for the treatment train and necessary controls. The plant hydraulics allow water to flow through the plant and into the clearwell. Without the ability to pump water from the clearwell, however, the plant cannot provide additional water to the town once the power fails. The expanded generators will not only provide backup power sufficient to operate the expanded plant, but they will retrofit backup power to the existing high service pumps enabling the plant to provide water to the town during an extended outage. |

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* + 1. Line Item 2.O – Project Benefits Subwatersheds That Are Impaired as Noted on the Most Recent Version of the Integrated Report

A project qualifies for points under this line item only when the applicant identifies a **direct connection** between the cause(s) of the impairment and how the proposed project will improve water quality by addressing the cause(s). The impaired subwatershed must be included in the most recent final version of the Integrated Report that is published on the NC DEQ Division of Water Resources website.

**Points Available**

* Wastewater – 20 points
* Drinking Water – Not Applicable
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

The narrative must:

* Provide the stream name, basin, the 8-digit HUC for the subbasin, and the Assessment Unit;
* Include identification of the impairment, a reference for the impairment, and how the proposed project will directly improve water quality by addressing the cause(s) of the impairment,
* Provide a map(s) indicating the project location and stream location with impaired segment highlighted, as well as sufficient labeled landmarks such as roads, streams, political boundaries, etc. to identify the location of the project.
* For projects claiming points due to impacts from SSOs, include copies of DWR SSO reports identifying the spill that reached applicable impaired waters; show the location of the SSOs on the map.
* For resources, see Table 3 below.

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| **Example Narratives for Line Item 2.O**  **Narrative that is NOT sufficient:** The collection system rehabilitation project will address collection system SSOs that have occurred and impacted Trout Creek. ***(Not sufficient because no direct link is identified between impairment and the SSOs and no map is provided showing the relationship between the SSOs and Trout Creek.)***  **Narrative that IS sufficient:** The proposed collection system rehabilitation project will benefit the waters of Trout Creek, which are impaired for fecal coliform. The Town has had several SSOs that have reached Trout Creek from this area of the system. A map and DWR SSO reports are included, showing the relationship between the SSOs and the impaired stream segment. |

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| **Table 3. Resources for Use Related to Impaired Waters** |
| Integrated Report: <https://deq.nc.gov/about/divisions/water-resources/planning/modeling-assessment/water-quality-data-assessment/integrated-report-files> |
| Basinwide Assessment Reports may also be helpful in describing the impairment issues and how the project will directly improve or address the impairment; these reports may be found at <https://deq.nc.gov/about/divisions/water-resources/planning/basin-planning>. If used, please cite the report name, date, and page number. |
| ***Resource #3:*** GIS layers are available at <http://datagateway.nrcs.usda.gov/>. In addition, the DWR’s Planning Section has GIS layers for impaired streams at <http://deq.nc.gov/about/divisions/water-resources/planning/basin-planning/maps>. This stream layer includes the stream name and impairment category (whether impaired or not). See Figure 2 below. |

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Impairment category (Cat. 4 in this example)

A computer screen shot of a map

Description automatically generated

**Figure 2. Example GIS Layer for Stream Impairment**

Impaired Stream

(highlighted)

Project Area

* + 1. Line Item 2.P – Project Directly Benefits Specific Classified Waters

**Points Available**

* Wastewater – 10 points
* Drinking Water – Not Applicable
* BIL EC Funds – Not Considered for BIL EC Funds

Projects qualify for points under this line item only when the Applicant identifies a **direct connection** between the benefit of the project and benefit to specific classified waters in the state which are identified as HQW, ORW, Tr, SA, UWL, PNA, AFSA, SAV, WS-I, WS-II, WS-III, and WS-IV).

**Important to Remember**

Points claimed for WS-III or WS-IV waters must include a letter or email from the Public Water Supply Section within the Division of Water Resources confirming that the subject area is covered by an approved Source Water Protection Plan. Public Water Supply confirmation documentation must be less than 5 years old at the time of application. Please contact Bradley Whitman at (919) 707-9076 or at [bradley.whitman@deq.nc.gov](mailto:bradley.whitman@deq.nc.gov) to obtain this information.

***Resource:*** To determine the watershed classification, the DWR Planning Section provides classification lists and GIS layers to locate and document the location of special waters and their respective classifications at <http://deq.nc.gov/about/divisions/water-resources/planning/basin-planning/maps>.

*Required Documentation*

The narrative must:

* Provide the river basin name, stream name and index number along with the stream classification;
* Provide the watershed classification which must be consistent with any subwatershed or Basinwide Water Quality Plan mentioned for previous line items;
* Provide a discussion of how the project will directly (i.e., not incidentally) benefit the waters with these classifications; and
* Provide mapping that identifies the project location and special waters location.

**Important to Remember**

Include – for projects claiming points due to impacts from SSOs – copies of DWR SSO reports identifying the spill that reached applicable special waters; also show the location of the SSOs on the map.

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| **Example Narratives for Line Item 2.P**  **Narrative that is NOT sufficient:** The proposed sewer expansion project will benefit the Trout waters of nearby Trout Creek. ***(Not sufficient because no direct link is identified between the project and how it will benefit Trout Creek. Additionally, no mapping is provided.)***  **Narrative that IS sufficient:** The proposed sewer expansion project will benefit the Trout Waters of Trout Creek by replacing aged infrastructure that has caused SSOs to flow directly into Trout Creek. A map showing the relationship of the SSOs and proposed projects to Trout Creek is included. Additionally, DWR SSO reports are included. |

* + 1. Line Item 2.Q – Elimination of an NPDES Permit

A project qualifies for points under this line item when the project includes the elimination of a NPDES-permitted facility. The NPDES-permitted facility must be an actively operated WWTP and not a non-functional WWTP with an active NPDES permit. The project scope and budget must include removal of the discharge or outfall. Elimination of the NPDES discharge must be part of the project included in this application to qualify for points. Treatment at the receiving facility must be equal to or better than treatment at the facility to be eliminated.

**Points Available**

* Wastewater – 3 points
* Drinking Water – Not Applicable
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

The application must include the following:

* A copy of the NPDES permit for the WWTP being eliminated;
* A copy of NPDES permit for the WWTP that will accept the flow or ILA showing limits; and
* A description of the current and projected future sewer flows at the WWTP to be eliminated, and the current and projected future sewer flows at the accepting WWTP. Document that the accepting WWTP has sufficient capacity to accept the flow from the eliminated WWTP and provides a level of treatment as good as or better than the treatment at the facility to be eliminated.

If a system merger is involved, describe the regionalization of the system and how it is managed. Include the following

* State the LGUs that are involved. If a private system will be eliminated, provide an agreement showing that private system will be eliminated.
* Supporting documentation such as ILAs that show the responsibilities of each system involved.

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* + 1. Line Item 2.R – Achieve at Least 20 Percent Reduction in Energy Use (GREEN Project)

Projects receiving these priority points are considered a Green Project and are eligible for a CWSRF loan with a one percent interest rate discount.[[9]](#footnote-10)

**Points Available**

* Wastewater – 5 points (CWSRF only)
* Drinking Water – Not Applicable
* BIL EC Funds – Not Considered for BIL EC Funds

A project is eligible for these points if the project at the WWTP (including lift stations, landfill leachate collection/treatment systems) is intended to achieve at least a 20 percent reduction in energy use associated with the specific process or equipment being replaced/rehabilitated, or to produce energy, or eliminate one or multiple pump stations (see more below), the project qualifies for 5 points. For a project that is primarily, but not exclusively, dedicated to energy reduction, the one percent interest rate discount will apply only to the portion of the loan that covers costs qualifying as a Green Project.[[10]](#footnote-11) The standard interest rate will apply to the portion of the loan covering other aspects of the project.

**Important to Remember**

To earn these points, at least 50% of project construction costs must be related to achieving the 20% reduction in energy use, or to produce energy, or elimination of pump stations. Auxiliary equipment that supports energy reduction can count towards meeting the 50% cost requirements. No calculation is required if the narrative supports that the entire project it to reduce energy use.

The energy reduction calculations must be based on how the existing equipment is currently being operated, not on what the reduction would be if equipment were operated at a greater capacity than current typical usage. Energy improvements achieved by repairing malfunctioning equipment cannot be included in energy reduction calculations.

Elimination of pump stations may qualify depending on the impact to downstream facilities. If the sewer flow from the eliminated pump station has to be re-pumped by downstream pump station(s), calculations must be provided demonstrating at least a 20 percent reduction in overall energy usage considering all impacted pump stations. If a pump station is being eliminated solely via gravity sewer to the receiving WWTP, then no calculations are required.

*Required Documentation*

The narrative must:

* Describe and support the expected energy reductions and/or energy production, and
* Include calculations that document the 20 percent reduction in energy use.

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| **Example Narratives for Line Item 2.R**  **Narrative that is NOT sufficient:** The replacement of the pumps at the Main Street Pump Station will reduce energy consumption. **(Not sufficient because details about existing and proposed energy consumption and supporting calculations are not provided).**  **Narrative that is NOT sufficient:** The Main Street Pump Station will be replaced by a new gravity sewer that will deliver wastewater to the Chestnut Road Pump Station, thereby eliminating all energy use at the Main Street Pump Station. (**Not sufficient since the Chestnut Road Pump Station will experience an increase in flow and an increase in energy usage, and no calculations were provided to document a 20% reduction.)**  **Narrative that IS sufficient:** The replacement of pumps at the Main Street Pump Station will reduce energy consumption by 30% as follows: Current energy usage is 150 MWatt\*hour/month. After installation of the new pumps, the energy usage is expected to be only 105 MWatt\*hour/month. The energy reduction is therefore 150 -105 = 45 MWatt\*hour/month which equals a 30% reduction. Supporting calculations are provided and were based upon the efficiency and horsepower of the proposed pumps.  **Narrative that IS sufficient:** A town’s WWTP activated sludge basin currently uses coarse air bubble diffusers. The project will replace the diffuser system with fine bubble diffusers, and the air blowers will be replaced high efficiency blowers. Calculations provided demonstrate a 28% reduction in the energy consumption for the aeration system. |

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* 1. Category 3 – System Management
     1. Line Item 3.A – Capital Planning Activities

An applicant may qualify for points under only one of the following line items 3.A.1 or 3.A.2.

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* + 1. Line Item 3.A.1 – Asset Management Plan

To earn points under this line item, the Applicant must have an Implemented Asset Management Plan (AMP) **as of the date of the application** that addresses each of the four key areas described below. The AMP must be for the same utility type as the project (i.e., a wastewater project will not score points for an AMP that only covers drinking water assets and vice versa.)

**Points Available**

* Wastewater – 10 points
* Drinking Water – 10 points
* BIL EC Funds –Considered for BIL EC Funds

This guidance is intended only for the purpose of determining if the applicant qualifies for points under Line Item 3.A.1 of the PRS score sheet. This guidance is not intended to be an exhaustive resource for the development of asset management plans, and there are many aspects of asset management that may tie into a system owner’s plan that are not evaluated for the purpose of determining qualification for points. There are no requirements that the asset management plan be managed electronically.

*Required Documentation*

**Important to Remember**

* If the project does not qualify for 3.A.1., it will be automatically considered for 3.A.2 points, provided all required Capital Improvement Plan (CIP) documentation is included.
* A copy of the AMP is not a substitute for the narrative, and no points will be awarded if a complete narrative is not included.

To receive points under this line item, the application must include a narrative that clearly explains how the AMP addresses each of the four key areas described in this guidance. The narrative must include a specific section that addresses each of the following four key areas that comprise the Applicant’s AMP. This narrative can be written directly into the application narrative, or it can be attached as a supporting document with a reference to the document in the application narrative. A copy of the AMP is not a substitute for this narrative. **Each of these areas MUST be addressed in the narrative**. They are as follows:

1. Inventory of assets including maps;
2. Assessment of the condition of the infrastructure in the inventory;
3. A capital improvement plan (CIP) with projected cost estimates; and
4. An operation and maintenance plan to ensure proper management of the asset.

It is not necessary to provide maps with the narrative, but the Applicant’s AMP must include mapping as described below.

**1. Inventory of Assets.** The inventory **must include all** assets owned by the Applicant for the applicable utility (water or wastewater), not just the assets involved in the proposed project.

* Waterlines, valves, hydrants and tanks: map with age, type, and size of pipe materials; age and size of valves, hydrants and tanks; the narrative to support Line Item 3.A.1 must describe the general age of the pipe segments and valves.
* Gravity Sewers and Forcemains: map with age, type, and size of pipe materials; age, size and materials of manholes; the narrative to support Line Item 3.A.1 must describe the general age of the pipe segments and manholes.
* Pump Stations: map and narrative with age, number and capacity of pumps, power reliability, and telemetry
* Water or Wastewater Treatment Plants: process schematic, age, number, and capacity of each major treatment unit. Units that were built as part of a larger treatment process at the same time and that are in the same general condition may be grouped together.
* Other Assets (e.g., reclaimed water distribution Systems): provide information as outlined above.

**2. Condition Assessment.** Each asset item included in the Inventory of Assets must be assigned a condition. The assessment of the condition of the infrastructure may be based on:

**Important to Remember**

It is expected that the project for which funding is being sought will address infrastructure in the “poor” category. If it does not, provide a discussion and justification of why this project is proposed for funding when other infrastructure is in greater need of improvement (e.g., other high priority projects are being implemented with local funds).

* Operator knowledge,
* Formal evaluations (e.g., sanitary sewer evaluation study),
* Broad assumptions based on age and type of facilities (e.g., 40-year-old concrete pipe can be assumed to be in poor condition), and
* Condition of other similar facilities in the system where formal evaluations have been conducted.

The assessment scale (e.g., excellent – poor condition) is at the discretion of the Applicant. The narrative must describe the assessment scale and include a list of categories and a clear explanation of how each category is assigned (e.g., “Poor” rated sewer lines are those with offset joints, significant corrosion, cracks, experience surcharging, etc.).

**3. Capital Improvement Plan with Projected Cost Estimates.** Provide all documentation as required for Line Item 3.A.2 to demonstrate that the Asset Management Plan includes a CIP.

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| **Important to Know**  In order to qualify for the points, the project proposed for funding must be included in the CIP.  Review of a CIP for the purposes of awarding points for funding priorities in no way absolves the system owner of responsibility for regulatory noncompliance. |

**4. Operation and Maintenance Plan.** The operation and maintenance (O&M) plan should be based on manufacturers’ recommendations and/or typical industry best management practices. The narrative to support Line Item 3.A.1 must describe the Applicant’s O&M plan.

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| **Important to Know**   * Implementation of an AMP means that the Applicant has taken specific actions to put into practice the elements that comprise the Plan and can demonstrate the application of each activity and its outcome. * The application must include a narrative describing the AMP even if the same application previously received points for an AMP. * The AMP must include all water or wastewater infrastructure assets owned by the Applicant, not just the assets involved in the proposed project. * For a System Merger project receiving point under Line Item 2.F., the receiving system must have the qualifying AMP to earn points. |

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* + 1. Line Item 3.A.2 - Capital Improvement Plan

An application may earn points if the Applicant has a CIP adopted by the Applicant within two years of the application date, spanning at least ten years from the date of adoption, including cost estimates by year for projects scheduled in the first five years, and with the project proposed for funding included in the CIP. Provide the page number(s) in the application file where the CIP documentation is located.

**Points Available**

* Wastewater – 2 points
* Drinking Water – 2 points
* BIL EC Funds –Considered for BIL EC Funds

*Required Documentation*

For local government units and nonprofit water corporations, the narrative must include the following:

* A resolution or board meeting minutes which clearly shows a motion to approve and adopt the CIP within two years of the application date.
  + A certified true and correct copy of draft meeting minutes is acceptable for meetings held within 45 days of the application deadline;
  + A certification or statement that a CIP was adopted is not sufficient documentation;
  + If a CIP has been amended, the resolution or meeting minutes provided must show that the entire CIP, as revised, has been adopted.
* A statement of the years covered by the CIP, which must extend at least ten years from the most recent adoption date;
* A description sufficient to show that the project described in the CIP is unambiguously the same project seeking funding;
* A printout of the CIP priority matrix with a reasonable forecast of anticipated projects for the applicable utility (water or wastewater) meeting the following requirements:
  + The project must be highlighted on the priority matrix;
  + The CIP must cover 10 years from the most recent adoption date;
  + For the first five years the priority matrix must list projects and their costs by year;
  + After Year 5 (minimum of Years 6 – 10), the priority matrix must list projects and their estimated costs but does not need to specify the year or priority of those projects.
  + If the CIP priority matrix is part of a larger attachment, please provide the page number for the matrix and corresponding resolution.
* If the proposed project has moved significantly from the projected date in the CIP, explain why the project has been moved ahead of the other projects listed in the CIP.

For Investor-owned utilities, the narrative must include the following:

The CIP that was submitted to the utilities commission in the most recent rate case proceedings.

* A description sufficient to show that the project described in the CIP is unambiguously the same project seeking funding;
* A printout of the CIP priority matrix with a reasonable forecast of anticipated projects for the applicable utility (water or wastewater) meeting the following requirements:
  + The project must be highlighted on the priority matrix;

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* + 1. Line Item 3.B – System Operating Ratio

The application earns points if either of the following is true:

**Points Available**

* Wastewater – 5 points
* Drinking Water – 5 points
* BIL EC Funds –Considered for BIL EC Funds
* The Applicant’s Operating Ratio (OR) is greater than or equal to 1.00, or
* The Applicant’s Operating Ratio is less than 1.00 and the unit cost is greater than 2.5% of median household income (MHI).

A narrative is not required for this line item to receive points. DWI will calculate the OR based on data provided in the financial information form of the application and will award prioritization points based on that calculation. The Applicant may provide in the narrative a justification on why an alternative calculation or alternative values should be used in the calculation that are more representative of the utility’s operations (see Required Documentation below).

*Required Documentation*

Report the components of the Operation Ratio on the *Water & Sewer Financial Information Form*.

* Do not modify the forms.
* Do not report negative numbers for expenses.

Calculate the Operating Ratio using the formula below:

Provide the revenues and expenditures for the water and sewer enterprise fund (separate from other revenues) for the most recent audit year approved by the LGC.

Alternative Methodology: To account for unusual circumstances (for example, to account for large variations in capital expenditures or the use of reserve accounts), average the revenues and expenditures over the last five years. The narrative must clearly describe the circumstances that justify the use of this five-year average and why the most current year is not representative of a downward trend in the operating ratios if present.

If separate water and sewer enterprise funds are maintained, the Operating Ratio must be calculated using only the fund applicable to the system type (water or wastewater fund).

Present the calculations in the narrative.

**Calculation Notes**

In the narrative and calculation, use the same values entered in the *Water & Sewer Financial Information Form*.

* **Do not** include “Non-operating Revenues” in the numerator.
* Do not include any future revenues.
* Present “Total Expenditures” from the *Water and Sewer Financial Information Form*
* Present “Debt Principal”, “Interest” and “Capital Outlay” from the *Water &Sewer Financial Information Form*; “Capital Outlay” is defined as funded from the enterprise fund.

Report the Operating Ratio to two decimal points. An operating ratio of 0.99 does not qualify for points.

**Operating Ratios ≥ 1.00.** If the Applicant’s Operating Ratio is equal to or greater than 1.00, the application earns points.

**Operating Ratio < 1.0 and Combined Monthly Bill / MHI 2.5 percent.** If the operating ratio is less than 1.0 and the combined water and sewer rate as a percent of MHI is greater than 2.5 percent, the application earns points. The narrative must present both the OR as calculated above and the combined monthly water and sewer bill as a percent of MHI as calculated below:

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| **Calculation Notes**  In the narrative and calculation, use the same values entered in the DWI application for System Parameters (Section 2).   * Applicants that provide both water and wastewater utility services must use both rates in calculating OR. * **Include the official rate sheets for both water and sewer service. Otherwise the ratio is calculated based on the one included official rate sheet.** * Using the lowest residential rate available (typically, the “inside rate”) calculate the residential monthly utility bill for 5,000 gallons for water and sewer service. Include the monthly fixed, minimum or base charge. Show all calculations. * Report the results as “Monthly Utility Bill for 5,000 Gallons” on the Division application for System Parameters (Section 2). * Obtain the current statistics for MHI to be used in this calculation from the DWI website <https://deq.nc.gov/about/divisions/water-infrastructure/i-need-funding/application-forms-and-additional-resources> * For systems without adopted rates, enter "0" (zero). * If calculations are missing, incomplete or inconsistent, or if the official rate sheet is missing, the application earns no points for this line item. |

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* + 1. Line Item 3.C – DWR-Approved Source Water or Wellhead Protection Plan

To earn points under this line item, the Applicant must demonstrate that they have a **voluntary** Source Water Protection or Wellhead Protection Plan that has been approved by the DWR PWS **no more than five years before the application deadline**.

**Points Available**

* Wastewater – Not Applicable
* Drinking Water – 5 points
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

The narrative must include a copy of the voluntary Source Water Protection or Wellhead Protection plan approval letter by the PWS Section of DWR. **The PWSID number and name on the approval letter must match that of the Applicant or the benefitting Public Water Supply**.

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| **Important to Remember**   1. If you cannot find your approval letter, please contact Brad Whitman at 919.707.9076 or at [Bradley.Whitman@deq.nc.gov](mailto:Bradley.Whitman@deq.nc.gov) 2. A *mandatory* **Source Water Resiliency and Response Plan** is not a *voluntary* **Source Water Protection Plan**. Self-certification of a *mandatory* **Source Water Resiliency and Response Plan** is not an approval letter from PWS for a voluntary Source Water Protection Plan. |

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* + 1. Line Item 3.D – Water Loss Reduction Program

To earn points under this line item, the Applicant must document a Water Loss Reduction Program that includes water audits and hidden leak detection and repair.

**Points Available**

* Wastewater – Not Applicable
* Drinking Water – 5 points
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

To document these priority points, provide the following:

* An annual water audit for each of the past three years. Applicants may use the Division of Water Resources Small System Water Audit or the AWWA Water Loss Control Committee Free Water Audit Software. The audit must include both a data table and graphs showing the following for each of the past three years:

**Important to Remember**

The *Division of Water Resources Small System Water Audit* and the *AWWA Water Loss Control Committee Free Water Audit Software* are available through the following website <https://deq.nc.gov/about/divisions/water-resources/drinking-water/forms-publications/community-water-systems-water-efficiency-bmp>.

* + The volume of water produced each month;
  + The volume of unaccounted-for water each month; and
  + The unaccounted-for water as a percent of total water produced each month.

The data table must also report the annual average unaccounted-for water as a percent of total water for each of the past three years.

Accounted-for water is generally quantified by meters. However, water quantified by other methods can also be included in accounted-for water. For example, water may be flushed from a hydrant through an orifice that allows an estimate of the quantity of water release. Unaccounted-for water is defined as the difference between total water produced (generally metered at the source) and the accounted-for water.

If the water audit shows that the percent of total unaccounted-for water is less than 10 percent for each of the past three consecutive years or the *AWWA Water Loss Control Committee Free Water Audit Software* calculates an Infrastructure Leak Index (ILI) less than 1.2 for each of the past three consecutive years, the audit sufficiently documents the priority points for this line item. Otherwise, the application must also include documentation of an ongoing and continuous program to track down and repair hidden leaks (leaks that are not visible, obvious, or accidentally discovered). Hidden leak detection requires the use of technology that extends the human senses.

**Important to Remember**

To earn points, you must either show very low leakage or show an ongoing and continuous program to track down and repair hidden leaks. **Promptly fixing found leaks does not earn points.**

To document these priority points, provide the following:

* Describe the ongoing and continuous program to track down and repair hidden (not obvious or accidentally discovered) leaks by answering the following questions:
  + Who does the leak detection? (e.g., town staff or the Rural Water Association),
  + How often is the system surveyed for leaks? (must be at least annual), and
  + What equipment (e.g., acoustic or ultrasonic) was used for the survey,
  + Does the system own the equipment, or does the system borrow / rent the equipment (and from whom)?
* Provide records of the past three leak detection surveys, including the following:
  + The date of the survey;
  + The scope of the survey. State either “the entire transmission and distribution system was surveyed”, or provide a map of the entire transmission and distribution system showing the areas covered by each survey; and
  + The location of each leak found.
* To show an ongoing and continuous program to track down and repair hidden leaks, the most recent survey must have been performed no more than one calendar year before the application deadline.
* For each leak found in the most recent survey provide the following information:
* Whether/when the leak was repaired, and

If the leak was not repaired, then describe why it was not repaired. For example, is the repair of the leak the subject of an application submitted to the Division? Does the repair of the leak appear as a project in the CIP? Does the system have written standard operating procedures for prioritizing leaks?

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| **Example Narratives for Line Item 3.D**  **Narrative that is NOT sufficient – audit only:** The attached water audits show that the unaccounted-for water for the most recent three years was 9.0 percent, 13.6 percent & 9.0 percent. Although the unaccounted-for water for the three years averaged 10.53 percent, which exceeds 10 percent, the unaccounted-for water during two of the three years was less than 10 percent, so the project should earn these points**. *(Not sufficient because to earn the points, the unaccounted-for water for each of the last three years must be less than 10 percent.)***  **Narrative that is sufficient – audit only:** The attached water audits show that the unaccounted-for water for each of the most recent three years was 8 percent, 7 percent and 6 percent. Because the unaccounted-for water for each of the past three years was less than 10 percent, the project earns these points**.** |

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| **Example Narratives for Line Item 3.D**  **Narrative that is NOT sufficient – leak detection by visual inspection:** The three attached water audits show that the unaccounted-for water for the most recent year was 38 percent. Because the unaccounted-for water was more than 10 percent, the system must demonstrate hidden leak detection and repair.  Town of Smallville staff drive around the entire distribution system first thing every morning and last thing every evening looking for leaks. They also routinely stop passers-by and ask if they saw any leaks. Records of 730 such visual inspections and 350 interactions with passers-by in the past calendar year are attached, as are records of repair of four of the five discovered leaks. Because its repair is so expensive, the fifth discovered leak appears on the CIP as project # 1452, and is the subject of this application. ***(Not sufficient because to earn the points, the Applicant must look for hidden leaks that are not visible, obvious or accidentally discovered)***  **Narrative that is sufficient – hidden leak detection by contract:** The three attached water audits show that the unaccounted-for water for the most recent year was 38 percent. Because the unaccounted-for water was more than 10 percent, the system must demonstrate hidden leak detection and repair.  For the past five years the Town of Smallville contracted with the Rural Water Authority to survey the town’s waterlines twice a year using Sonoric-brand LeakTrex© ultrasonic leak detector. The cover page and results tables of the past three RWA reports are attached, as are records of repair of four of the five discovered leaks. Because its repair is so expensive, the fifth discovered leak appears on the CIP as project #1452 and is the subject of this application.  **Narrative that is sufficient – hidden leak detection by town staff:** The three attached water audits show that the unaccounted-for water for the most recent year was 38 percent. Because the unaccounted-for water was more than 10%, the system must demonstrate hidden leak detection and repair.  Starting in June of 2013 the Town staff survey the town’s waterlines twice a year using rented Sonoric-brand detectors (Models 300 and 320). The results tables of the past three surveys performed by Town of Smallville staff are attached, as are records of repair of four of the five discovered leaks. Because its repair is so expensive, the fifth discovered leak appears on the CIP as project #1452 and is the subject of this application. |

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* + 1. Line Item 3.E – Water Conservation Incentive Rate Structure

To earn points under this line item, the Applicant must demonstrate that it has a water conservation incentive rate structure in place.

**Points Available**

* Wastewater – Not Applicable
* Drinking Water – 3 points
* BIL EC Funds – Not Considered for BIL EC Funds

*Required Documentation*

The narrative must include:

* A water rate sheet that has been adopted by the Applicant. The rate structure must meet both of the following requirements:

**Important to Remember**

The price per gallon of additional water use is an actual price per gallon, not a calculated “effective rate.”

* The price per gallon of additional water use must increase within the first 5,000 gallons of use (*i.e*., the break must occur no greater than 4,999 gallons); and
* The price per gallon of additional water use cannot decrease within the first 20,000 gallons of use.

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| **Example Rate Structure #1**   * $25.00 fixed monthly fee * $5.00/kgal for 1 gallon to 2,000 gallons * $7.00/kgal for 2,001 to 10,000 gallons * $6.00/kgal above 10,000 gallons   This rate structure does not qualify because the rate decreases before 20,000 gallons of use.  **Example Rate Structure #2**   * $10.00 for first 3,000 gallons   + Note that $10/3,000 gallons is an “effective rate” of $3.33/kgal * $3.50/kgal above 3,000 gallons   This rate structure does not qualify because one cannot compare the $3.50/kgal price to the “effective rate” of the flat fee portion of the bill. The increase in cost per gallon of additional use must occur between two ranges that charge per gallon of use.  **Example Rate Structure #3**   * $25.00 fixed monthly fee * $5.00/kgal up to 2,000 gallons * $7.00/kgal from 2,001 to 25,000 gallons * $3.00/kgal above 25,000 gallons   This rate structure qualifies. |

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* 1. Category 4 – Affordability

Category 4 provides points related to affordability. Additionally, the affordability criteria are required to determine grant eligibility and, if eligible, the percentage of grant/loan/principal forgiveness mix.

Local government units under the fiscal control of the Local Government Commission on the day of the application deadline qualify for 100% principal forgiveness, and those that have also received an Emergency Operating Grant under NC GS 159G-34.5 in the current or prior fiscal year qualify for the maximum points for Category 4: Affordability. The Division will verify with the LGC which systems are eligible for these considerations. Applicants who believe they meet these requirements should claim and document affordability points to ensure the project receives all eligible prioritization.

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* + 1. Line Item 4.A – Residential Connections

An Applicant may qualify for **only one** of the following sub-categories (Line Items 4.A.1-4.A.3) based on the number of residential connections that you reported on the DWI Application.

**Points Available**

* Wastewater – 2-8 points
* Drinking Water – 2-8 points
* BIL EC Funds – Considered for BIL EC Funds
  + Line Item 4.A.1 – Less than 10,000 residential connections (2 Point); OR
  + Line Item 4.A.2 – Less than 5,000 residential connections (4 Points); OR
  + Line Item 4.A.3 – Less than 1,000 residential connections (8 Points).

**Important to Remember**

For wastewater applications, count only sewer connections. For drinking water applications, count only drinking water connections.

To determine residential connections, list on the DWI Application the number of residential connections *in the utility’s entire service area*. For utilities with multiple water or wastewater systems, include the sum of all service connections under the same rate structure supporting the cost of the project.

Some systems serve additional customers yet record flow through a bulk connection. If this is the case, then all residential connections served by the bulk connection must be considered. Please see the supplemental guidance available at <https://deq.nc.gov/about/divisions/water-infrastructure/i-need-funding/application-forms-and-additional-resources>. Use these residential connections in Line Item 4.A of the Priority Rating System for water and wastewater projects.

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| **Example for Line Item 4.A**  The Bixby-Hadley Water and Sewer Authority serves two towns, the Town of Bixby and the Town of Hadley. Bixby has 12,500 residential connections in their sewer system while the Town of Hadley has 8,000 residential connections. They wish to complete a collection system rehabilitation and replacement project. Due to the number of residential connections within the service area of the Bixby-Hadley Water and Sewer Authority (20,500), they are eligible for a 100% loan. (If ARPA funds are available, they would be eligible for grant funding). |

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* + 1. Line Item 4.B – Current Monthly Utility Bill at 5,000 Gallons

An Applicant may qualify for **only one** of the following sub-categories (Line Items 4.B.1-4.B.4) based on the current monthly combined water and sewer utility rate at 5,000 gallons as shown on the rate sheet submitted with the application.

**Points Available**

* Wastewater – 4-10 points
* Drinking Water – 4-10 points
* BIL EC Funds – Considered for BIL EC Funds
* Line Item 4.B.1 – Greater than 50th Percentile ($89) (4 Points) **OR**
* Line Item 4.B.2 – Greater than 70th Percentile ($107) (6 Points) **OR**
* Line Item 4.B.3 – Greater than 85th Percentile ($126) (8 Points) **OR**
* Line Item 4.B.4 – Greater than 95th Percentile ($145) (10 Points).

Use the lowest in-town rate. Provide rate sheets and show all calculations.

* If you are a single-utility water provider, estimate the combined utility bill by dividing the water rate for 5,000 gallons by 0.4.
* If you are a single-utility sewer provider, estimate the combined utility bill by dividing the sewer rate for 5,000 gallons by 0.6.

*Required Documentation*

To document this line Item, provide the following:

* A copy of the most recent official water and sewer rate sheets in effect at the time of the application as part of the supporting documentation in Section 4 of the priority points narrative.
  + An “after-the-fact” application that earns priority under Line Items 1.A and 2.F can use the official rate sheet for the consolidated system that was in effect on the date of consolidation.
* A clear calculation or description of how the bill for monthly use of 5,000 gallons is calculated.

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| **Important to Remember**  In the narrative and calculation, use the same values entered in the Division application for System Parameters (Section 2).   * **Include the official rate sheet.** * Using the lowest residential rate available (typically, the “inside rate”) calculate the residential monthly utility bill for 5,000 gallons for water and sewer service. Show all calculations. * Report the results as “Monthly Rate for 5,000 Gallons” on the Division application for System Parameters (Section 2). |

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* + 1. Line Item 4.C – Local Government Unit Indicators

An Applicant may qualify for **only one** of the following sub-categories (Line Items 4.C.1-4.C.4) based on the local government unit (LGU) economic indicators reported on the DWI Application:

**Points Available**

* Wastewater – 4-10 points
* Drinking Water – 4-10 points
* BIL EC Funds – Considered for BIL EC Funds
* Line Item 4.C.1 – 3 out of 5 LGU indicators worse than state benchmark (3 points) **OR**
* Line Item 4.C.2 – 4 out of 5 LGU indicators worse than state benchmark (5 points) **OR**

**Important to Remember**

Applicants will not be awarded both LGU indicator and disadvantaged area sub-categories. If an application is eligible for both 4.C.1-4.C.3. and 4.C.4, the highest scoring line item will be awarded.

* Line Item 4.C.3 – 5 out of 5 LGU indicators worse than state benchmark (7 points) **OR**
* Line Item 4.C.4 – Project benefits disadvantaged areas (5 points).

These indicators show whether or not an Applicant is faring better or worse in terms of these indicators than the state benchmark. (Values equal to state benchmarks are not considered “worse than” benchmarks for scoring purposes.) The indicators that the Division utilizes for this determination are as follows:

**Important to Remember**

Applicants may consider and submit alternative population if population data does not appear accurate. Refer to ‘Percent Population Change’ (1) below for instructions to submit alternative population data.

* Percent population change
* Poverty rate[[11]](#footnote-12)
* Median household income
* Unemployment
* Property valuation per capita

To assist in determining whether LGU economic indicators are better or worse than the state benchmarks, DWI has developed a table that is available on the [Division application webpage](https://deq.nc.gov/about/divisions/water-infrastructure/i-need-funding/application-forms-and-additional-resources#additional-resources). This table is available for use in completing the information for affordability criteria. These tables must be used in completing information for population change, poverty rate, median household income, and unemployment except as specifically noted below when the applicant determines that the data in the tables is not accurate.

**Important to Remember**

For municipalities that cross multiple counties, use the average of the unemployment rates. The Affordability calculator does this for you.

Additionally, this information may also be found in the Affordability Calculator that is available on the Division’s website at <https://deq.nc.gov/about/divisions/water-infrastructure/i-need-funding/application-forms-and-additional-resources#additional-resources>.

List each LGU indicator in Section 2 on the Application for Funding.

Some situations may occur in which alternate data may be utilized. These are listed below.

*Percent Population Change*

1. Some situations may exist where the Applicant determines that the American Community Survey (ACS) data related to population (and therefore population change) used in the Division’s table are not accurate, particularly in the case of smaller LGUs where ACS margins of error are larger. If this is the case, then data from the North Carolina Office of State Budget and Management (OSBM) may be used in lieu of the ACS data. When OSBM data are used, the Applicant must submit population data at least 5 years apart (e.g., 2018-2022) and provide as supporting documentation the reason for using the OSBM data, printouts of the data page(s) with the Applicant and population numbers highlighted, and the website link for the data source(s).

**Important to Remember**

Alternative methods must use population data points at least 5 years apart, unless seeking consideration as described in #2 below.

The website for the starting point for accessing OSBM data is <http://www.osbm.nc.gov/facts-figures>. Five (5) years of OSBM data will need to be submitted for the LGU (inclusive of all counties, if in multiple counties). To include data for 2018 and 2022, population data may be obtained from the following two tables: the 2023 Standard Population Estimates (<https://demography.osbm.nc.gov/explore/dataset/2023-standard-population-estimates/table/>) and Municipal Intercesal Estimates 2010-2019 (<https://demography.osbm.nc.gov/explore/dataset/intercensal-estimates-2010-2019/table/?disjunctive.county&disjunctive.municipality>). Include the original data (2018 and 2022) and calculate the percent population change as follows:

1. Some cases may exist where a resident institution such as a prison, juvenile hall, or nursing home facility may open and impact the population during the five-year period under consideration for percent population change. If such a situation exists in an LGU, then the institutional population may be deducted from the most recent population before the calculation for percent change in population is made. Provide supporting documentation that shows the facility name, the number of the institutionalized population, and the year the facility opened.

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| **Example for Line Item 4.C (Population Change)**  In 2020, the Town of Klondike opened a juvenile detention facility that houses 400 residents. According to the ACS data, the Town in 2017 had a population of 16,500 residents and now in 2021 had a population of 17,400 residents, resulting in a percent population change of 5.45% change in population, which would put them at better than the state benchmark. However, removing the resident population of the detention center resulted in a population change of 500 people (3.03%), which put them at worse than the state benchmark. To receive credit, the Town included supporting documentation that showed the number juvenile residents when the facility opened and the fact that the facility opened in 2020. |

*Property Valuation per Capita*

In many cases, utilize the total taxable property value reported in the most current audit for the LGU. Use the total taxable property value and divide it by the population of the LGU found on the Division’s data sheets referenced above to calculate property valuation per capita.

**Important to Remember**

If the Applicant does not have an audit that is current and on file with the LGC, then the Applicant does not get credit for the property valuation per capita indicator. In its analysis, DWI staff will count that particular parameter as better than the state benchmark.

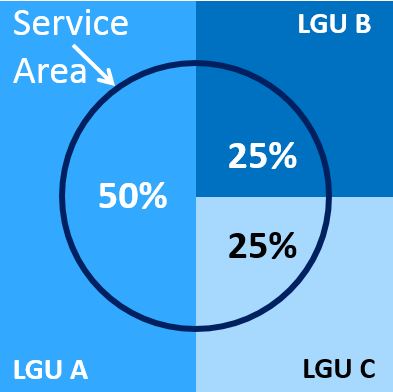
If the service area is outside of a municipality, then three options exist.

1. The county property valuation per capita figure may be used.
2. If the service area is in a defined area such as a Census Data Place (CDP), then the Applicant may utilize tax maps to determine the total taxable property value within the defined area. That result would then be divided by the population in the CDP. As supporting documentation, provide a map that shows the boundaries of the CDP and service area. Additionally, provide a copy of the spreadsheet used to calculate the CDP’s total taxable property value and property valuation per capita. This may be supplied either in hard copy or on CD.
3. For a service area such as a subdivision that is not in a defined CDP, the Applicant may utilize tax maps to determine the total taxable property value of the area. Estimate the population of the area by determining the total number of houses and using the persons per household figure for the county. This information may be found in the [ACS data available online](https://www.census.gov/quickfacts/fact/table/US/HCN010217). Look at the table under the topic of Family and Living Arrangements. Persons per Household is listed on the second row under that topic.
4. Supply as part of the Section 4 documentation a map showing the total number of houses in the service area, a spreadsheet of the total taxable property value calculation, the persons per household for the county from the ACS, and the calculation of the service area population as well as property valuation per capita.

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| **Example for Line Item 4.C (Property Valuation per Capita)**  Landry County has a wastewater project that will run sewer to the Newcomb subdivision, a large subdivision of 500 homes that has been on failing septic systems. The property valuation per capita of Landry County is $105,000, which is over the state benchmark. Based on local knowledge, county staff know that the subdivision is more impoverished than the rest of the county. Using a GIS, they determined the total taxable property within the subdivision to be $114,475,000. To estimate the population within the subdivision, they utilized the ACS persons per household estimate for the county (2.41 persons per household) and derived an estimated population of 1,205 people. Dividing a total taxable property value by the estimated population yields a property valuation per capita of $95,000. This is worse than the state benchmark. The county submitted supporting documentation for the calculation and received credit for the LGU economic indicator. |

*Weighted Averaging*

There may be situations that arise where a system such as a water and sewer authority or a water system covers multiple LGUs. Figure 4 shows a graphical example of a system’s service area that crosses multiple jurisdictions. If this occurs, then use a weighted average based on the percentage of users to determine each of the economic indicators.



**Figure 4. Graphical Example of Multiple Service Areas**

The Affordability Calculator contains four columns that can be used to calculate using weighted averages. If more than four columns are needed, please complete the calculations by hand and show your work.

If calculating economic parameters across multiple jurisdictions, for each indicator, show the calculations that led to the data entered into the affordability portion of the application. Note that the calculator allows up to four different areas to be entered and will calculate the LGU parameters.

**Important to Remember**

Outside-rate customers are not to be considered when conducting weighted averaging.

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| **Example for Line Item 4.C (Weighted Averaging)**  The Town of Central is a regionalized system that serves the entire town (60 percent of the service area) as well as the Town of Bixby (30 percent of the service area) and part of the county (10 percent of the service area). The Town determined population changes for each of the areas as follows:   * Central: 5.5 percent * Bixby: 5.0 percent * County: 8.5 percent   Using the following calculation, they determined the percent population growth for their service area to be 5.65 percent by using the following equation:  PopGrowthTotal= (0.6\*5.5%) + (0.3\*5.0%) + (0.1\*8.5%) = 5.65%  That would place the Town at better than the state benchmark. |

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* + 1. Line Item 4.C.4. Benefit to Disadvantaged Areas

These priority points are intended to provide additional priority to projects providing direct benefits to residences in disadvantage areas. Disadvantaged areas must be subsections or pockets of a service area, not the entire local government unit area or entire utility service area. For instance, disadvantaged areas may be Census Block Groups that meet qualifying characteristics.  Disadvantaged areas are limited to less than half the number of total connections served by the applicant at the time of application. A project that benefits the entire local government unit area or utility service area is not eligible to be considered a disadvantaged area project and will not receive these points.

**Points Available**

* Wastewater – 5 points
* Drinking Water – 5 points
* BIL EC Funds – Considered for BIL EC Funds

Projects for which at least 50 percent of the construction costs are to provide direct benefits to disadvantaged areas are eligible to receive these points. Project must provide a direct benefit to residences and properties identified in disadvantaged areas.

The targeted project area will be determined a “disadvantaged area” if it falls within a Potentially Underserved Block Groups 2024 or Tribal boundary layer in the NC DEQ’s Community Mapping System.

**Important to Remember**

Projects requesting priority points for Line Item 1.E. will automatically be considered for this item. Projects receiving priority points for Line Item 1.E. will receive these points without any additional documentation.

Alternatively, a targeted project area will be considered a “disadvantaged area” based on sociodemographic data for Census Block Groups or Census tracts demonstrating at least three of the following factors:

* Median household income of the targeted project area is lower than the state benchmark;
* Poverty rate of the targeted project area is higher than the state benchmark;
* Property values per capita of the targeted project area is lower than the state benchmark;
* Unemployment rate of the targeted project area is higher than the state benchmark.
* Additional factors such as but not limited to demographic, historical, cultural, linguistic, socio-economic stressors, cost-of-living stressors, or existing contamination.

*Required Documentation*

The documentation to receive these priority points must include:

* A project map clearly identifying disadvantaged areas and properties within the project area.
* A narrative in the application to justify the targeted project area as disadvantaged using the factors above. Targeted project area data (e.g. median household income in the targeted project area’s census block group) must be compared to state benchmark values established in Category 4 - Affordability.  Supporting documentation may include maps or other existing sources.

Use of NC DEQ’s Community Mapping System and other similar federal or state-generated maps is encouraged. Documentation can include screenshots/printouts of NC DEQ’s Community Mapping System (<https://deq.nc.gov/outreach-education/environmental-justice/deq-north-carolina-community-mapping-system>. Identify on the map the targeted project area overlapping “Potentially Underserved Block Groups 2024” and/or “Tribal Boundaries” that appear on the online map as shaded areas (these are considered disadvantaged, underserved areas).

* Provide a narrative explaining the direct benefit to the customers in the disadvantaged areas. Project benefits are not limited to priority point line items listed in Category 2, however a project receiving Category 2 project benefit points may be eligible for this item if a direct benefit to the disadvantaged area can be described. Applicant must demonstrate direct benefits related to improved service, public health, or environmental safety of the residents where there is an existing documented deficiency. Benefits include but are not limited to providing safe and reliable drinking or wastewater services, and reduced exposure to documented sanitary sewer overflows or bypasses.

**Important to Remember**

Financial benefits from receiving grants or principal forgiveness funding are not considered a direct benefit to customers for these points.

* A project budget form that includes the following:
  + Specify the line items (or the portions of the line items) that are necessary to provide benefit to existing residences in disadvantaged, underserved areas.
  + Demonstration that at least 50 percent of the total construction cost in the Division Funding Requested column in Section 8 is necessary to provide a benefit to residences in disadvantaged, underserved areas. Where projects provide benefits to areas that are not disadvantaged, the project costs necessary to provide a benefit to disadvantaged areas must be reduced from the total construction cost based on percent of population or number of connections that are disadvantaged compared to the total population benefiting from the project. (e.g. For a new service line to connect 50 residences, of which 60 percent are in a disadvantaged area, 60 percent of the cost of the water main can be counted towards this calculation, or for a treatment plant project where 55 percent of the service area is disadvantaged, 55 percent of the treatment plant upgrades or rehab can be counted towards the calculation). Other proposed methods must be clearly supported in the narrative to be considered. **Attach your calculations as necessary.**

Examples of potential eligible and ineligible projects are listed below:

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| **Potentially Eligible Project Types** |
| Collection and distribution systems projects within a disadvantaged area, and  direct benefit is documented in the narrative related to public health and safety of the residents. |
| Sewer rehabilitation projects which serve a disadvantaged area and the project receives 2.C. priority points for SSOs, the project documents self-reported SSOs caused a public health risk to the disadvantaged area, or the project received age points in items 1.C.1 or 1.D.1. |
| Water distribution system projects which serve a disadvantage area, and the project improves system reliability and improved public health (resolve low pressure issues, documented pipe breaks, or reduce water age to help with DBP exceedances) |

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| **Example Narrative for Line Item 4.C.4 (Benefit to Disadvantaged Areas)**  The Town of Servicia water system will extend its distribution system and connect residences along X Road, Y Street, and Z Drive to provide reliable drinking water. The project area is disadvantaged and underserved, located within a Potentially Underserved Block Group as shown on the NC DEQ Community Mapping System (see map screenshot in Appendix L). Groundwater wells providing drinking water to this area are contaminated with Arsenic.  Z Drive  Y Street  X Road |
| **Example Narrative for Line Item 4.C.4 (Benefit to Disadvantaged Areas) Continued..**   * 1. Number of connections in the purple shaded disadvantaged area are approximately 90 and this is less than ½ of Total residential connections of Town of Servicia, which is 500.   2. Town of Servicia has only 2 LGU indicators worse than state Benchmarks.   3. Existing drinking water wells serving the Disadvantaged area are contaminated with Arsenic. Random sampling was performed during 2021 and 2022 and lab results attached. Arsenic levels at these private wells exceeds the MCL of 0.01 mg/L.   4. Project Budget attached shows more than 50% of the Division requested funding is to connect homes in the disadvantaged area.   5. Extending Town’s water lines to this area will provide the reliable arsenic free drinking water to disadvantaged/underserved population, thereby reducing all health risks associated with higher levels of arsenic.   6. Project map clearly identifying the disadvantaged area and the water lines to be extended, is attached. |

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* + 1. Line Items 4.D - 4.G —Reserved for the CDBG-I Program

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**Priority Rating System Score Sheet for Drinking Water Projects**

| **2024 PRIORITY RATING SYSTEM for Drinking Water Projects** | | | | |
| --- | --- | --- | --- | --- |
| Instructions: For each line item, mark “X” to claim the points for that line item. Be sure that your narrative includes justification for every line item claimed. At the end of each Category, provide the total points claimed for each program in the subtotal row for that category. Then add the subtotals from each category and enter the Total of Points for All Categories in the last line. Note that some categories have a maximum allowed points that may be less than the total of individual line items. | | | | |
| **Line Item #** | **EC Line Item†** | **Category 1 – Project Purpose**  **(Points will be awarded for only one Project Purpose)** | **Claimed**  **Yes/No** | **Points** |
| **1.A** |  | Project will consolidate a nonviable drinking water or wastewater utility |  | 25 |
| **1.B** |  | Project will resolve failed or failing infrastructure issues |  | 22 |
| **1.C** |  | Project will rehabilitate or replace infrastructure, including replacement by regionalization projects |  | 12 |
| 1.C.1 |  | Treatment units, pumps and/or pump stations to be rehabilitated or replaced are greater than 20 years old, **OR** lines, storage tanks, drinking water wells or intake structures to be rehabilitated or replaced are greater than 40 years old **OR** lead service lines |  | 8 |
| **1.D** |  | Project will expand infrastructure |  | 2 |
| 1.D.1 |  | Treatment units, pumps and/or pump stations to be rehabilitated or replaced are greater than 20 years old, **OR** lines, storage tanks, drinking water wells or intake structures to be rehabilitated or replaced are greater than 40 years old |  | 8 |
| **1.E** |  | Project will provide service to disadvantaged areas |  | 20 |
| **1.F – 1.I** |  | Reserved for other programs |  |  |
| **1.J** |  | Project addresses PFAS emerging contaminants |  |  |
| 1.J.1 | EC | Sole purpose of the project is to address Emerging Contaminants (construction projects) where 100% of the costs are associated with this purpose **OR** |  | 12 |
| 1.J.2 | EC | At least 75% of the project costs are to address Emerging Contaminants (construction projects) **OR** |  | 5 |
| 1.J.3 |  | Reserved for EC-Study Program. Please use appropriate guidance and rolling application. |  |  |
| **Maximum points for Category 1 – Project Purpose** | | | | 25 |
| **Subtotal claimed for Category 1 – Project Purpose** | | | |  |
| **Line Item #** | **EC Line Item†** | **Category 2 – Project Benefits** | **Claimed**  **Yes/No** | **Points** |
| **2.A** |  | Reserved for other programs |  |  |
| **2.B** |  | Project provides a specific public health benefit |  |  |
| 2.B.1 |  | Project addresses dry wells or contamination of a drinking water source; or resolves managerial, technical & financial issues |  | 20 |
| 2.B.2 |  | Projects that eliminate lead service lines |  | 10 |
| **2.C** |  | Reserved for other programs |  |  |
| **2.D** |  | Project addresses promulgated but not yet effective regulations |  | 10 |
| **2.E** |  | Project directly addresses enforcement documents |  |  |
| 2.E.1 |  | Project directly addresses an EPA Administrative Order for a local government Applicant located in a Tier 1 county, or addresses an existing or pending SOC, or a DEQ Administrative Order, **OR** |  | 5 |
| 2.E.2 |  | Project directly resolves a Notice of Violation or Notice of Deficiency |  | 3 |
| **2.F** |  | Project includes system merger or regionalization |  |  |
| 2.F.1 |  | Project includes system merger **OR** |  | 10 |
| 2.F.2 | EC | Project includes system regionalization and/or system partnerships |  | 5 |
| **2.G** |  | Project addresses documented low pressure |  | 10 |
| **2.H** |  | Project addresses contamination |  |  |
| 2.H.1 |  | Project addresses acute contamination of a water supply source **OR** |  | 15 |
| 2.H.2 |  | Project addresses contamination of a water supply source other than acute **OR** |  | 5 |
| 2.H.3 | EC | Project addresses any PFAS compounds exceeding 10 ppt or State-established regulatory standards or limits **OR** |  | 2 |
| 2.H.4 | EC | Project addresses PFAS exceeding proposed MCL or Hazard Index |  | 5 |
| **2.I** |  | Project improves treated water quality by adding or upgrading a unit process |  | 3 |
| **2.J** |  | Water loss in system to be rehabilitated or replaced is 30% or greater |  | 3 |
| **2.K** |  | Project provides a public water system interconnection |  |  |
| 2.K.1 |  | Project creates a new interconnection between systems not previously interconnected **OR** |  | 10 |
| 2.K.2 |  | Project creates an additional or larger interconnection between two systems already interconnected which allows one system’s public health water needs to be met during an emergency **OR** |  | 10 |
| 2.K.3 |  | Project creates any other type of interconnection between systems |  | 5 |
| **2.L – 2.M** |  | Reserved for other programs |  |  |
| **2.N** |  | Project provides resiliency for critical system functions |  |  |
| 2.N.1 |  | Project relocates infrastructure from inside the 100-year floodplain to outside the 500-year floodplain **OR** |  | 8 |
| 2.N.2 |  | Project relocates infrastructure from inside the 100-year floodplain to outside the 100-year floodplain **OR** |  | 5 |
| 2.N.3 |  | Project relocates infrastructure from between the 100-year and 500-year floodplains to outside a 500-year floodplain **OR** |  | 3 |
| 2.N.4 |  | Project fortifies or elevates infrastructure within floodplain, **OR** |  | 4 |
| 2.N.5 |  | Project improves ability to assure continued operation during flood events **OR** |  | 4 |
| 2.N.6 |  | Project downsizes infrastructure related to buyouts **OR** |  | 4 |
| 2.N.7 |  | Project provides redundancy/resiliency for critical treatment and/or transmission/distribution system functions including cybersecurity and/or backup electrical power source |  | 3 |
| **2.O – 2.S** |  | Reserved for other programs |  |  |
| **Maximum points for Category 2 – Project Benefits** | | | | 35 |
| **Subtotal claimed for Category 2 – Project Benefits** | | | |  |
| **Line Item #** | **EC Line Item†** | **Category 3 – System Management** | **Claimed**  **Yes/No** | **Points** |
| **3.A** |  | Capital Planning Activities |  |  |
| 3.A.1 | EC | Applicant has implemented an Asset Management Plan as of the date of application **OR** |  | 10 |
| 3.A.2 | EC | Applicant has a current Capital Improvement Plan (CIP) that spans at least 10 years and proposed project is included in the plan |  | 2 |
| **3.B** | EC | System Operating Ratio is greater than or equal to 1.00 based on a current audit, or is less than 1.00 and unit cost is greater than 2.5% of MHI |  | 5 |
| **3.C** |  | Applicant has an approved Source Water Protection Plan and/or a Wellhead Protection Plan |  | 5 |
| **3.D** |  | Applicant has implemented a water loss reduction program |  | 5 |
| **3.E** |  | Applicant has implemented a water conservation incentive rate structure |  | 3 |
| **Maximum points for Category 3 – System Management** | | | | 15 |
| **Subtotal claimed for Category 3 – System Management** | | | |  |
| **Line Item #** | **EC Line Item†** | **Category 4 – Affordability** | **Claimed**  **Yes/No** | **Points** |
| **4.A** |  | Residential Connections |  |  |
| 4.A.1 | EC | Less than 10,000 residential connections **OR** |  | 2 |
| 4.A.2 | EC | Less than 5,000 residential connections **OR** |  | 4 |
| 4.A.3 | EC | Less than 1,000 residential connections |  | 8 |
| **4.B** |  | Current Monthly Combined Utility Rates at 5,000 Usage |  |  |
| 4.B.1 | EC | Greater than 50th Percentile ($89) **OR** |  | 4 |
| 4.B.2 | EC | Greater than 70th Percentile ($107) **OR** |  | 6 |
| 4.B.3 | EC | Greater than 85th Percentile ($126) **OR** |  | 8 |
| 4.B.4 | EC | Greater than 95th Percentile ($145)$ |  | 10 |
| **4.C** |  | Local Government Unit (LGU) Indicators |  |  |
| 4.C.1 | EC | 3 out of 5 LGU indicators worse than state benchmark **OR** |  | 3 |
| 4.C.2 | EC | 4 out of 5 LGU indicators worse than state benchmark **OR** |  | 5 |
| 4.C.3 | EC | 5 out of 5 LGU indicators worse than state benchmark **OR** |  | 7 |
| 4.C.4 | EC | Project benefits disadvantaged areas |  | 5 |
| **4.D – 4.G** |  | Reserved for other programs |  |  |
| **Maximum points for Category 4 – Affordability** | | | | 25 |
| **Subtotal claimed for Category 4 – Affordability** | | | |  |
| **Total of Points for All Categories** | | | |  |
| **Total Points for EC funding (If applicable)** | | | |  |

**Priority Rating System Score Sheet for Wastewater Projects**

| **2024 PRIORITY RATING SYSTEM for Wastewater Projects** | | | | |
| --- | --- | --- | --- | --- |
| Instructions: For each line item, mark “X” to claim the points for that line item. Be sure that your narrative includes justification for every line item claimed. At the end of each category, provide the total points claimed for each program in the subtotal row for that category. Then add the subtotals from each category and enter the Total of Points for All Categories in the last line. Note that some categories have a maximum allowed points that may be less than the total of individual line items. | | | | |
| **Line Item #** | **EC Line Item†** | **Category 1 – Project Purpose**  **(Points will be awarded for only one Project Purpose)** | **Claimed**  **Yes/No** | **Points** |
| **1.A** |  | Project will consolidate a nonviable drinking water or wastewater utility |  | 25 |
| **1.B** |  | Project will resolve failed or failing infrastructure issues |  | 20 |
| **1.C** |  | Project will rehabilitate or replace infrastructure, including replacement by a regionalization projects |  | 12 |
| 1.C.1 |  | Treatment units, pumps and/or pump stations to be rehabilitated or replaced are greater than 20 years old, **OR** lines, or tanks to be rehabilitated or replaced are greater than 40 years old |  | 8 |
| **1.D** |  | Project will expand infrastructure |  | 2 |
| 1.D.1 |  | Treatment units, pumps and/or pump stations to be rehabilitated or replaced are greater than 20 years old, **OR** lines, storage tanks, drinking water wells or intake structures to be rehabilitated or replaced are greater than 40 years old |  | 8 |
| **1.E** |  | Project will provide service to disadvantaged areas |  | 20 |
| **1.F** |  | Reserved for other programs |  |  |
| **1.G** |  | Project will provide stream/wetland/buffer restoration |  | 10 |
| 1.G.1 |  | Restoration project that includes restoration of a first order stream and includes stormwater infiltration SCMs |  | 5 |
| 1.G.2 |  | Restoration project that includes restoration and/or protection of riparian buffers to at least 30 feet on both sides of the stream |  | 5 |
| **1.H** |  | Project will provide SCMs to treat existing sources of pollution |  | 10 |
| 1.H.1 |  | Project that includes SCMs in series that achieve at least 35% nutrient reduction (both TN and TP) and 85% TSS reduction |  | 10 |
| **1.I** |  | Project will provide reclaimed water/usage or rainwater harvesting/usage |  | 10 |
| **1.J** |  | Project addresses PFAS emerging contaminants |  |  |
| 1.J.1 | EC | Sole purpose of the project is to address Emerging Contaminants (construction projects) where 100% of the costs are associated with this purpose **OR** |  | 12 |
| 1.J.2 | EC | At least 75% of the project costs are to address Emerging Contaminants (construction projects) **OR** |  | 5 |
| 1.J.3 | EC | Reserved for EC-Study Program. Please use appropriate guidance and rolling application. |  | 5 |
| **Maximum points for Category 1 – Project Purpose** | | | | 25 |
| **Subtotal claimed for Category 1 – Project Purpose** | | | |  |
| **Line Item #** | **EC Line Item†** | **Category 2 – Project Benefits** | **Claimed**  **Yes/No** | **Points** |
| **2.A – 2.B** |  | Reserved for other programs |  |  |
| **2.C** |  | Project provides a specific environmental benefit |  |  |
| 2.C.1 |  | Project replaces or repairs certain sewer lines, eliminates failed onsite wastewater system or non-discharge system, or resolves managerial, technical & financial issues |  | 15 |
| 2.C.2 |  | Project eliminates malfunctioning onsite wastewater systems |  | 10 |
| **2.D** |  | Project addresses promulgated but not yet effective regulations |  | 10 |
| **2.E** |  | Project directly addresses enforcement documents |  |  |
| 2.E.1 |  | Project directly addresses an EPA Administrative Order for a local government Applicant located in a Tier 1 county, or addresses an existing or pending SOC, or a DEQ Administrative Order, **OR** |  | 5 |
| 2.E.2 |  | Project directly resolves a Notice of Violation or Notice of Deficiency |  | 3 |
| **2.F** |  | Project includes system merger or regionalization |  |  |
| 2.F.1 |  | Project includes system merger **OR** |  | 10 |
| 2.F.2 | EC | Project includes system regionalization and/or system partnerships |  | 5 |
| **2.G – 2.H.2** |  | Reserved for other programs |  |  |
| 2.H.3 | EC | Project addresses any PFAS compounds exceeding 10 ppt or State-established regulatory standards or limits **OR** |  | 2 |
| 2.H.4 | EC | Project addresses PFAS exceeding proposed MCL or Hazard Index |  | 5 |
| **2.I** |  | Project improves treated water quality by adding or upgrading a unit process |  | 3 |
| **2.J – 2.M** |  | Reserved for other programs |  |  |
| **2.N** |  | Project provides resiliency for critical system functions |  |  |
| 2.N.1 |  | Project relocates infrastructure from inside 100-year floodplain to outside 500-year floodplain **OR** |  | 8 |
| 2.N.2 |  | Project relocates infrastructure out of a 100-year floodplain **OR** |  | 5 |
| 2.N.3 |  | Project relocates infrastructure from between the 100-year and 500-year floodplains to outside the 500-year floodplain **OR** |  | 3 |
| 2.N.4 |  | Project fortifies or elevates infrastructure within floodplain **OR** |  | 4 |
| 2.N.5 |  | Project improves ability to assure continued operation during flood events **OR** |  | 4 |
| 2.N.6 |  | Project reduces the size of infrastructure as a result of a buyout or other abrupt loss of population **OR** |  | 4 |
| 2.N.7 |  | Project provides redundancy/resiliency for critical treatment and/or transmission/distribution system functions including cybersecurity and/or backup electrical power source |  | 3 |
| **2.O** |  | Project directly benefits subwatersheds that are impaired as noted on the most recent version of the Integrated Report |  | 20 |
| **2.P** |  | Project directly benefits specific classified waters |  | 10 |
| **2.Q** |  | Project will result in elimination of an NPDES discharge |  | 3 |
| **2.R** |  | Primary purpose of the project is to achieve at least 20% reduction in energy use |  | 5 |
| **2.S** |  | Reserved for other programs |  |  |
| **Maximum points for Category 2 – Project Benefits** | | | | 35 |
| **Subtotal claimed for Category 2 – Project Benefits** | | | |  |
| **Line Item #** | **EC Line Item†** | **Category 3 – System Management** | **Claimed**  **Yes/No** | **Points** |
| **3.A** |  | Capital Planning Activities |  |  |
| 3.A.1 | EC | Applicant has implemented an Asset Management Plan as of the date of application **OR** |  | 10 |
| 3.A.2 | EC | Applicant has a current Capital Improvement Plan (CIP) that spans at least 10 years and proposed project is included in the plan |  | 2 |
| **3.B** | EC | System Operating Ratio is greater than or equal to 1.00 based on a current audit, or is less than 1.00 and unit cost is greater than 2.5% of MHI |  | 5 |
| **3.C – 3.E** |  | Reserved for other programs |  |  |
| **Maximum points for Category 3 – System Management** | | | | 15 |
| **Subtotal claimed for Category 3 – System Management** | | | |  |
| **Line Item #** | **EC Line Item†** | **Category 4 – Affordability** | **Claimed**  **Yes/No** | **Points** |
| **4.A** |  | Residential Connections |  |  |
| 4.A.1 | EC | Less than 10,000 residential connections **OR** |  | 2 |
| 4.A.2 | EC | Less than 5,000 residential connections **OR** |  | 4 |
| 4.A.3 | EC | Less than 1,000 residential connections |  | 8 |
| **4.B** |  | Current Monthly Combined Utility Rates at 5,000 Usage |  |  |
| 4.B.1 | EC | Greater than 50th Percentile ($89) **OR** |  | 4 |
| 4.B.2 | EC | Greater than 70th Percentile ($107) **OR** |  | 6 |
| 4.B.3 | EC | Greater than 85th Percentile ($126) **OR** |  | 8 |
| 4.B.4 | EC | Greater than 95th Percentile ($145)$ |  | 10 |
| **4.C** |  | Local Government Unit (LGU) Indicators |  |  |
| 4.C.1 | EC | 3 out of 5 LGU indicators worse than state benchmark **OR** |  | 3 |
| 4.C.2 | EC | 4 out of 5 LGU indicators worse than state benchmark **OR** |  | 5 |
| 4.C.3 | EC | 5 out of 5 LGU indicators worse than state benchmark **OR** |  | 7 |
| 4.C.4 | EC | Project benefits disadvantaged areas |  | 5 |
| **4.D – 4.G** |  | Reserved for other programs |  |  |
| **Maximum points for Category 4 – Affordability** | | | | 25 |
| **Subtotal claimed for Category 4 – Affordability** | | | |  |
| **Total of Points for All Categories** | | | |  |

1. See explanation of old infrastructure definition for what construction cost means. [↑](#footnote-ref-2)
2. See definition of construction costs in section 2.1.4. [↑](#footnote-ref-3)
3. These projects may be funded from the CWSRF Green Project Reserve. [↑](#footnote-ref-4)
4. Ibid. [↑](#footnote-ref-5)
5. Ibid. [↑](#footnote-ref-6)
6. Ibid. [↑](#footnote-ref-7)
7. Ibid. [↑](#footnote-ref-8)
8. Treatment works: Defined here as public sewer collection and transmission system, pump stations, and wastewater treatment facilities. [↑](#footnote-ref-9)
9. These projects may be funded from the CWSRF Green Project Reserve. [↑](#footnote-ref-10)
10. Ibid. [↑](#footnote-ref-11)
11. Applicable to Line Item 4.E of the CDBG-I scoresheet. [↑](#footnote-ref-12)