



NHDES Stormwater and Wastewater Asset Management Program

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Introductions



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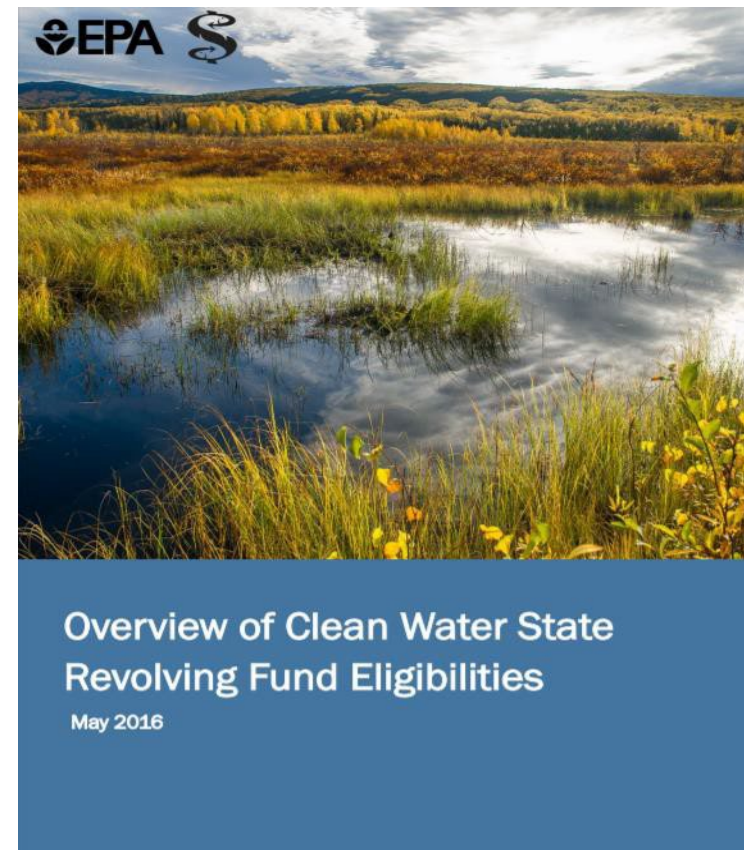
Presentation Outline

- Clean Water State Revolving Fund (CWSRF) Overview
 - NH CWSRF Loan Program Overview
 - Project Types
- What is Asset Management?
- Why do Asset Management?
- LRPC Communities Eligibility
 - Stormwater Asset Management
 - Wastewater Asset Management
- NHDES Clean Water Asset Management Funding Details
 - Timeline
 - Eligible Expenses
 - Guidance
- Upcoming Events
- Tips for Success
- Q&A



Clean Water State Revolving Fund (CWSRF)

Funds planning and infrastructure projects to improve water quality, including wastewater and stormwater (including nonpoint source)



[Overview of CWSRF Eligibilities \(epa.gov\)](http://epa.gov)

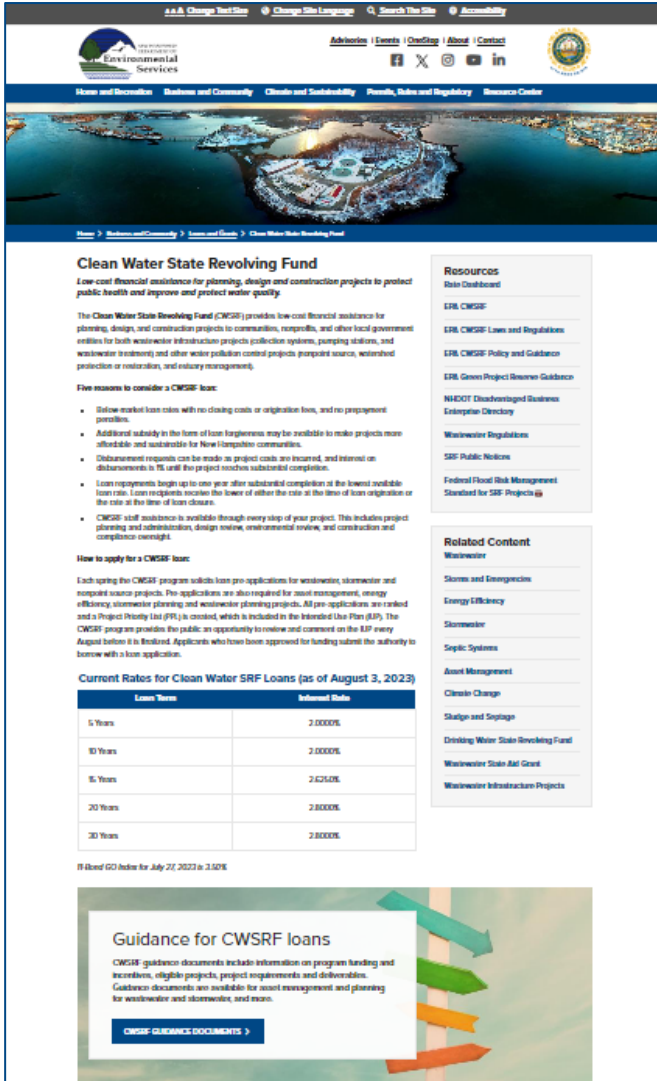


Clean Water State Revolving Fund (CWSRF)

CWSRF Eligibilities

- **A federal-state partnership that provides communities low-cost financing for a wide range of water quality infrastructure projects**
- **Eligibilities include:**
 1. POTWs (section 212)
 2. 319 management programs
 3. 320 conservation and management plans
 4. Decentralized wastewater treatment systems
 5. Stormwater or subsurface drainage water
 6. Reduce demand to POTWs through water conservation, efficiency, or reuse
 7. Watershed projects (section 122)
 8. Energy conservation at POTWs
 9. Wastewater, stormwater, or subsurface drainage water reuse (private + nonprofit)
 10. Increased security of POTWs
 11. Planning, developing, and financing projects

New Hampshire Clean Water State Revolving Fund



The screenshot shows the website for the Clean Water State Revolving Fund. The header includes navigation links for Home and Services, Business and Community, Climate and Sustainability, Permits, Rules and Regulatory, and Resource Center. The main content area is titled "Clean Water State Revolving Fund" and describes the program's purpose: "Low-cost financial assistance for planning, design and construction projects to protect public health and improve and protect water quality." It also lists "Five reasons to consider a CWSRF loan:"

- Below-market loan rates with no closing costs or origination fees, and no prepayment penalties.
- Additional subsidy in the form of loan forgiveness may be available to make projects more affordable and sustainable for New Hampshire communities.
- Disbursement requests can be made as project costs are incurred, and interest on disbursements is 1% until the project reaches substantial completion.
- Loan repayments begin up to one year after substantial completion at the lowest available loan rate. Loan recipients receive the lower of either the rate at the time of loan origination or the rate at the time of loan closure.
- CWSRF staff assistance is available through every step of your project. This includes project planning and administration, design review, environmental review, and construction and compliance oversight.

Below the list is a table titled "Current Rates for Clean Water SRF Loans (as of August 3, 2023)":

Loan Term	Interest Rate
5 Years	2.0000%
10 Years	2.0000%
15 Years	2.6250%
20 Years	2.8000%
30 Years	2.8000%

At the bottom of the screenshot, there is a section titled "Guidance for CWSRF loans" with a button that says "CWSRF GUIDANCE DOCUMENTS >".

- Administered by the NHDES Wastewater Engineering Bureau
- Each spring the CWSRF Program solicits pre-applications for wastewater and stormwater (including nonpoint source) projects

Five reasons to consider a CWSRF loan:

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- Additional subsidy in the form of loan forgiveness may be available to make projects more affordable and sustainable for New Hampshire communities.
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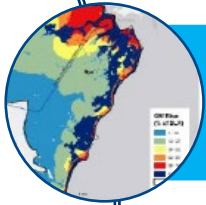
<https://www.des.nh.gov/business-and-community/loans-and-grants/clean-water-state-revolving-fund>

NHDES CWSRF Loan Program

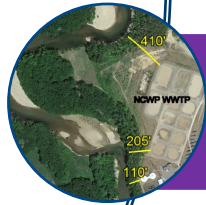
Stormwater/Nonpoint Source & Wastewater Categories



Asset Management Program



Planning Projects

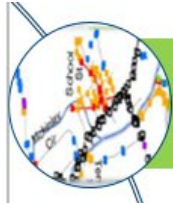


Infrastructure w/Planning Component Projects



Infrastructure Projects

NHDES CWSRF Loan Program Stormwater & Wastewater Categories



Asset Management Program

The screenshot shows the NHDES website's "Asset Management" page. At the top, there is a navigation bar with links for "Change Text Size", "Change Site Language", "Search The Site", and "Accessibility". Below this is the NHDES logo and a menu with "Advisories", "Events", "OneStop", "About", and "Contact". Social media icons for Facebook, X, Instagram, YouTube, and LinkedIn are also present. A secondary navigation bar includes "Home and Recreation", "Business and Community", "Climate and Sustainability", "Permits, Rules and Regulatory", and "Resource Center". The main content area features a large image of a lake and mountains, with a breadcrumb trail: "Home > Business and Community > Asset Management".

Asset Management

Improving the understanding and performance of drinking water, wastewater and stormwater assets.

Asset Management is about delivering a specified level of service to customers and regulators at an optimal life cycle cost and an acceptable level of risk with a strategy that ensures long-term sustainability of public assets. NHDES' mission is to establish a centralized location to provide information, technical assistance and funding opportunities to assist communities with the development of sustainable asset management programs. The guidance documents listed on the right are helpful documents to start with.

The development of an asset management plan and implementation of the asset management program can help reduce operating risks and address infrastructure challenges as the infrastructure continues to age and deteriorate. Asset management enables an organization or a community to examine the need for each asset as well as the performance of the assets. This, in turn, allows the individual systems to self-evaluate their needs and funding strategies.

Annual Asset Management Workshop

The next Asset Management Workshop, "Bringing It All Together," will be held on October 30, 2024, in Pembroke, NH. See the [Save the Date flyer](#) for more information. We hope you join us!

What is Asset Management?

Asset management is the practice of managing infrastructure capital assets to **minimize the total cost** of owning and operating them while **delivering the service level customers desire**. This management framework has been widely adopted by the water sector as a means to pursue and achieve sustainable infrastructure. (USEPA)



Assets



Level of Service



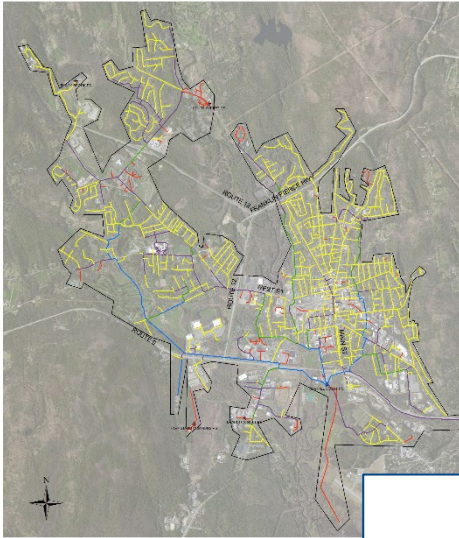
Criticality



Funding



Life Cycle



Consequence of Failure (COF)	5	0	1	9	2	0
	4	0	59	419	295	2
	3	0	322	1,212	591	11
	2	0	15	67	25	0
	1	0	0	0	0	0
		1	2	3	4	5
		Likelihood of Failure (LOF)				

Why do Asset Management?

- Provide high-quality service and more efficiently and effectively manage water systems
- Protect the investments made in water infrastructure
- Prioritize capital improvements

Why do Asset Management?

Emergency repairs can be 5-7 times more expensive!



LRPC Communities





Eligibility Remaining for Stormwater Asset Management Grant



— Already utilized funding from NHDES for Stormwater Asset Management

Eligibility Remaining for Wastewater Asset Management Grant



-  Already utilized funding from NHDES for Wastewater Asset Management
-  Not currently eligible for funding from NHDES for Wastewater Asset Management

Clean Water Asset Management Preapplications

- Open Soon!
- Asset Management is reviewed and ranked separately
- Preapplication is relatively simple and straightforward
- Grants of \$30,000+ for WW and \$30,000 for SW



Is the pre-application for development of an Asset Management Program? *Select One

Yes No

i You have selected an Asset Management pre-application. Please note pre-applications for the development of an Asset Management Program cannot be combined with other types of projects.

Please select your Asset Management Program Development category. *Select One

*Please note that this control is conditionally displayed based on the answer to other question(s) and may not be available in the electronic form.

Wastewater Assets Stormwater Assets

Wastewater and Stormwater Assets

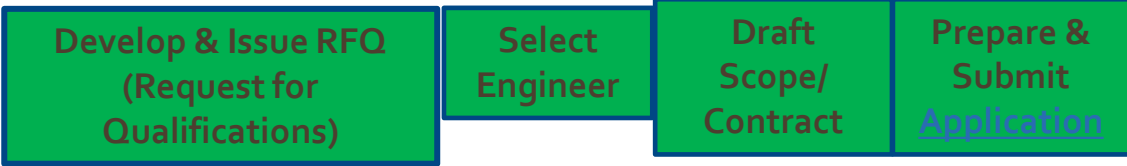
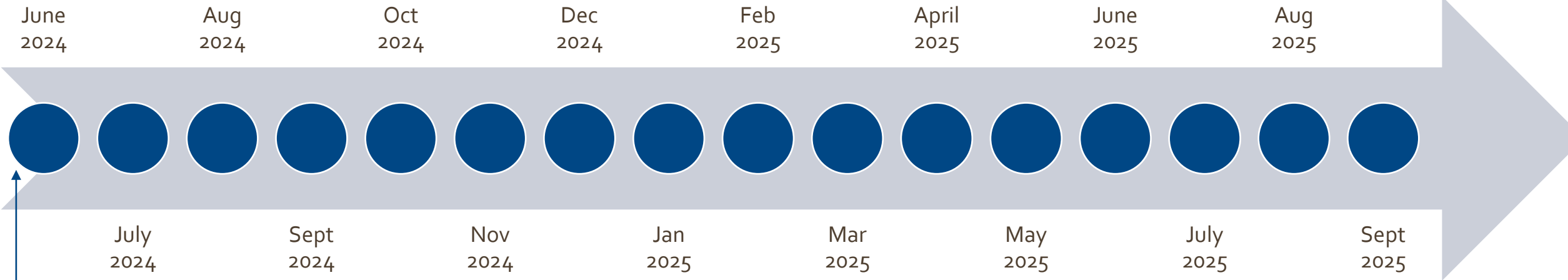
Brief description of proposed Asset Management Program development: a general description of the types of assets intended to be included and a description of how the program will be incorporated into management of the utility.

*Please note that this control is conditionally displayed based on the answer to other question(s) and may not be available in the electronic form.

Funding – Timeline

Clean Water Grants (Stormwater & Wastewater)

NH DES Tasks (in blue)

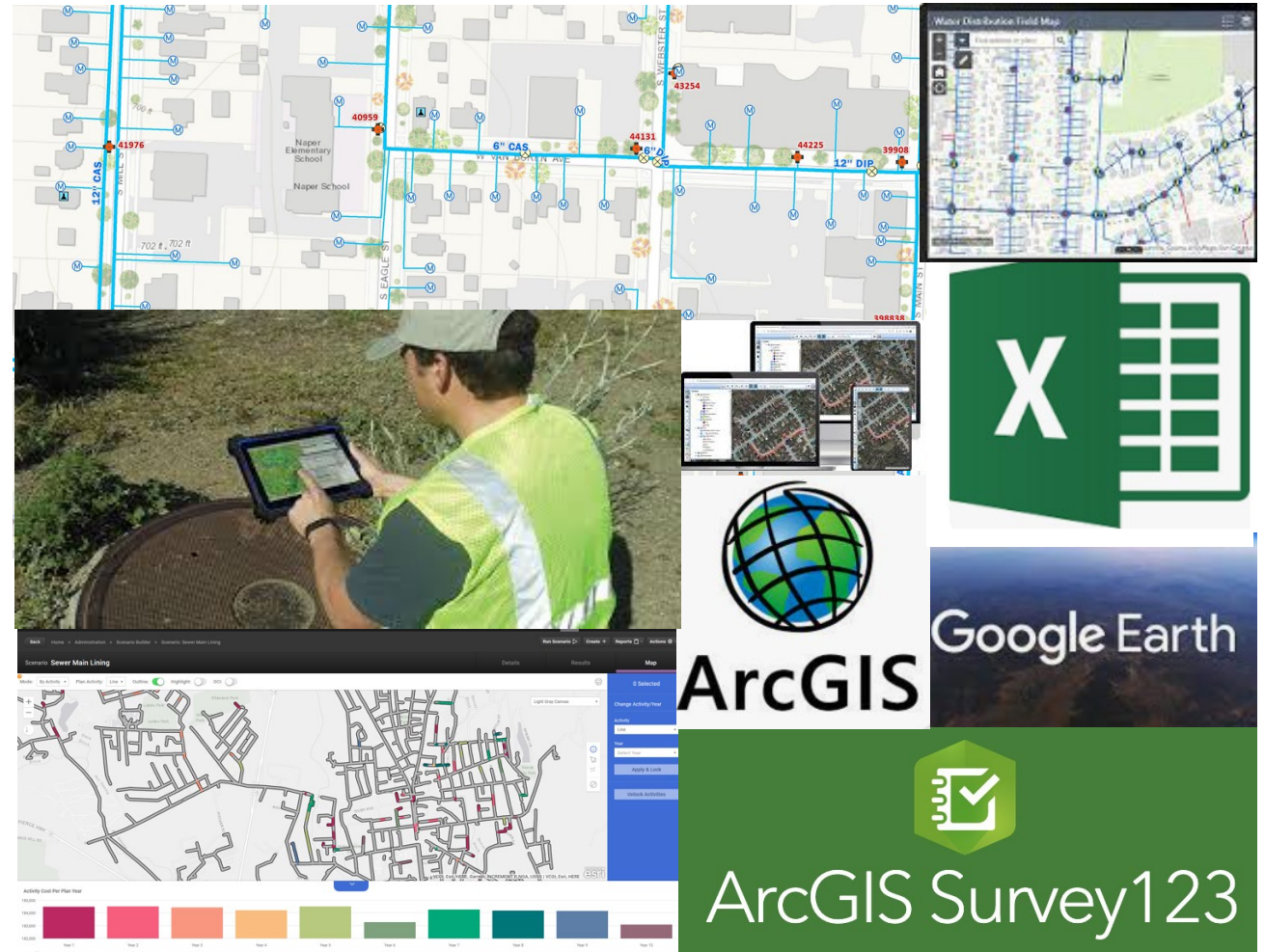


Town Tasks (in green)

Eligible Expenses

NHDES Approved Scope Items, Including:

- Consultant Fees
- Software Purchases
- Tablets or other equipment purchases/rentals
- Inspection Services



ASSET MANAGEMENT

Handbook & Toolkit – November 2023

WD-21-04

When defining your level of service goals, remember to write SMART(ER) goals – Specific, Measurable, Attainable, Relevant, Time Bound, Evaluate and Re-Do. This will allow the community to track its performance, show successes and failures and revise for improvement each year. Goals should be changed or adjusted over time. Goals can also be added or removed from the list.

SPECIFIC

- Well defined.

MEASURABLE

- How will you know if the goal has been achieved? Be able to show progress.

ATTAINABLE

- Is the community/staff capable of achieving the goal?

RELEVANT

- Does the metric fit with the broader goals of the organization?

TIME BOUND

- Provides time frame to achieve goal.

EVALUATE

- Constantly measure how the original goals measure up to reality.

RE-DO

- If the original goals need adjustments, simply update, or re-do them.

Determining level of service goals should not be overwhelming. Keep it simple, develop 10 to 12 goals around the most important aspects for the community. NHDES provides a template for a [level of service goals spreadsheet](#) to help get you started, as well as water, wastewater and stormwater examples to help brainstorm ideas.

ASSET MANAGEMENT

Handbook & Toolkit – November 2023

WD-21-04

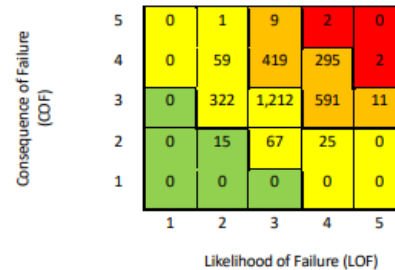
CRITICALITY SCORE

The product of the consequence of failure and likelihood of failure ratings provides the overall criticality score (risk score) for a given asset. The higher the score, the greater risk.



Calculating criticality scores gives a structured approach for comparing risk across asset types. Quantifying risk for each asset type provides an informed prioritization process that not only identifies the highest risk assets, but also allows for the comparison of risk reduction options. The criticality of any given asset will change over time. However, there are ways to reduce risk and utilities should investigate which methods will work best for given assets or asset classes. One example of how to reduce risk would be replacing or rehabilitating the asset.

Once a criticality score has been assigned to each asset, the data should be evaluated to create a prioritization framework. The severity of the risk can also be visualized in a matrix (see the example below where the values represent the number of assets in each risk category). This is a useful tool for communicating asset risks to community officials and/or members who may not understand what a particular criticality score might mean.



ASSET MANAGEMENT

Handbook & Toolkit – November 2023

WD-21-04

8. FUNDING STRATEGY

A funding strategy involves determining the best manner in which to allocate funds for the operation, maintenance, repair, rehabilitation and replacement of assets.

In order to prepare long-term financial forecasts, a community must outline the future financial requirements based on all information related to asset creation, maintenance, renewal or rehabilitation, as well as disposals.

When preparing the strategy, four questions can assist:

- What funds are needed to acquire, operate, maintain, renew or rehabilitate and dispose of assets?
- What is the timeline when funds are required?
- Will these funds impact user rates?
- What personnel resources will be required to operate and maintain the assets?

To break things down, there are five expenditure types that a community should plan for. Each of these has an identified typical funding source as well.

Expenditure Type	Description	Funding Source
Operational	Expenses which have no effect on the asset condition but are necessary to keep the asset utilized appropriately.	Annual Budget, Rates, Revenue
Maintenance	The ongoing day-to-day work required to keep assets operating at required service levels.	Annual Budget, Rates, Revenue
Renewal	Significant work that restores or replaces an existing asset towards its original size, condition or capacity.	Annual Budget, Rates, Revenue, Reserve funds, Grants, Loans, Bonds
New Work, Development, Capital Projects	Works to create a new asset, or to upgrade or improve an existing asset beyond its original capacity or performance, in response to changes in usage, customer expectations, or anticipated future need.	Annual Budget, Rates, Revenue, Reserve funds, Grants, Loans
Disposal	Any costs associated with the disposal of a decommissioned asset.	Annual Budget, Rates, Revenue Reserve funds, Grants, Loans

2024 NHDES Water Infrastructure Funding Workshop



Day 2 – Wednesday, April 10, 2024			
REGISTER	10-11:30am	Asset Management for Drinking Water, Wastewater and Stormwater.	<p>Sarah Ridyard, P.E., Sustainability Engineer. Deborah Loiselle, Stormwater Coordinator. Kaitlin Curtis, Water Systems Sustainability Administrator. Mathew Deterling, Water System Sustainability Grant Specialist.</p>
REGISTER	1:00-3:00pm	Clean Water - Stormwater and Wastewater Preparing for the 2024 Preapplication Process (Before it's too Late!).	<p>Sarah Ridyard, P.E., Sustainability Engineer. Deborah Loiselle, Stormwater Coordinator. Ethan Widrick, Resilience and Adaptation Manager.</p>

<https://www.pfas.des.nh.gov/news-and-media/blog/nhdes-2024-water-infrastructure-funding-workshop-april-9-12>

<https://www.des.nh.gov/sites/g/files/ehbemt341/files/inline-documents/sonh/2024-wif-workshop-agenda.pdf>



SAVE THE DATE

Asset Management
Workshop for
Water Infrastructure

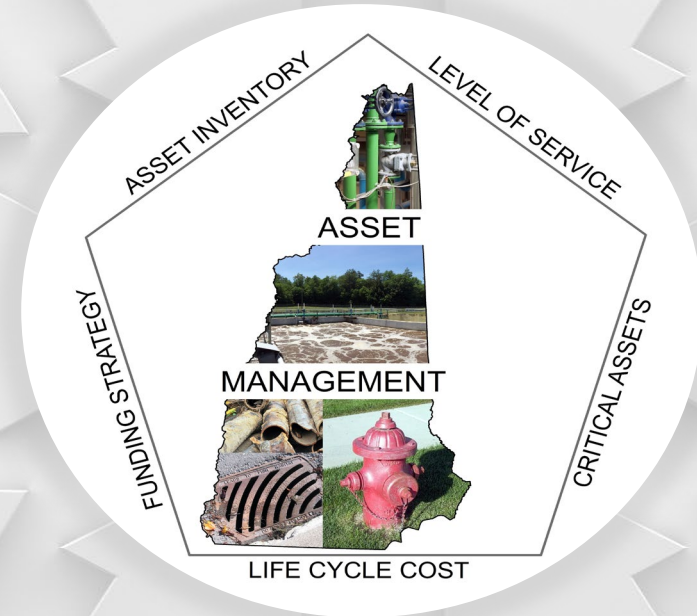
October 30, 2024

**Bringing It All
Together**

Registration information and agenda
coming soon!

Contact hours for drinking water,
stormwater and wastewater will be
available.

Hot lunch will be provided.



EDWARD CROSS TRAINING FACILITY
Pembroke, NH

Stormwater & Wastewater Asset Management Tips for Success!



Municipal Champion



Communication



NHDES "free" assistance and guidance



Embrace the asset management journey!

Stormwater & Wastewater Asset Management

Why Me? Why Now?



Protect New Hampshire's surface waters



Planning & Infrastructure Loans



Fiscal Planning



Grant

Stormwater & Wastewater Asset Management



Stormwater & Wastewater Asset Management



Thank you!

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