



# **INTRODUCTION TO THE PFAS REMEDIATION LOAN FUND (PFAS RLF)**

**FOR QUALIFYING PUBLIC DRINKING WATER AND WASTEWATER  
SYSTEMS**

---

**Amy Rousseau, NHDES**

**NHWWA Water Is Essential Seminar Series**

**October 27, 2020**

# AGENDA

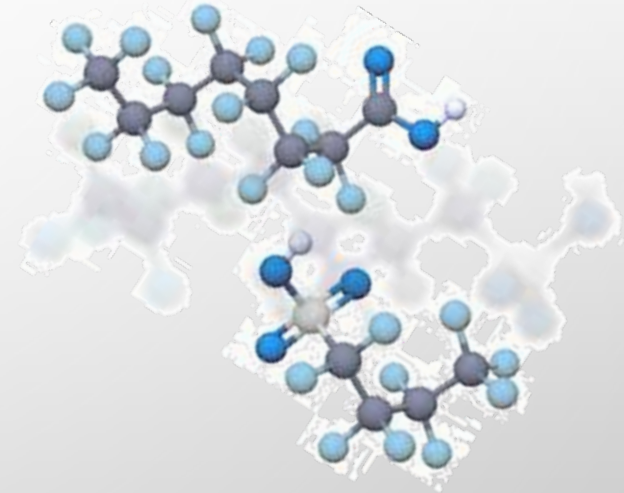
---



- WHAT ARE PFAS?
- ESTABLISHMENT OF THE PFAS RLF
- DETAILS OF THE LOAN
- OTHER PFAS FUNDING

# PER AND POLYFLUOROALKYL SUBSTANCES (PFAS)

- FAMILY OF MAN-MADE CHEMICALS
- RESISTANT TO GREASE, OIL, WATER AND HEAT
- AFFF, FABRICS, COOKWARE, FOOD PACKAGING.....
- PERSISTENT IN THE ENVIRONMENT



# HOUSE BILL 1264

PASSED JULY 28, 2020



- EXTENDS THE COMMISSION ON THE SEACOAST CANCER CLUSTER INVESTIGATION.
- SETS MAXIMUM CONTAMINANT LIMITS (MCLS) FOR PERFLUOROCHEMICALS IN DRINKING WATER.
- **ESTABLISHES RSA 485-H PER AND POLYFLUOROALKYL SUBSTANCES (PFAS) FUND AND PROGRAMS**
- REQUIRES INSURANCE COVERAGE FOR PFAS AND PERFLUORINATED COMPOUND (PFC) BLOOD TESTING.
- EXPANDS THE STATUTE GOVERNING AMBIENT GROUNDWATER QUALITY STANDARDS (AGQS) TO INCLUDE STATE MAXIMUM CONTAMINANT LEVELS ESTABLISHED IN LAW.



# RSA 485-H PER AND POLYFLUOROALKYL SUBSTANCES (PFAS) FUND AND PROGRAMS

---

- APPROPRIATES \$50M IN FUNDS TO THE NHDES FOR THE REMEDIATION OF PFAS CONTAMINATION
- ESTABLISHES THE PFAS REMEDIATION LOAN FUND (PFAS RLF)
  - LOW INTEREST LOAN PROGRAM FOR CERTAIN WATER AND WASTE WATER SYSTEMS AFFECTED BY PFAS CONTAMINATION
  - LOAN FORGIVENESS
  - CONTINGENT REIMBURSEMENT
- ADOPTION OF NEW RULES TO ADMINISTER THE PFAS REMEDIATION LOAN PROGRAM

# ADOPTING NEW RULES

- ENV-DW 1400 PER AND POLYFLUOROALKYL SUBSTANCES (PFAS) REMEDIATION LOAN FUND PROGRAM
  - COMMUNITY WATER SYSTEMS AND NON-PROFIT, NON-TRANSIENT PUBLIC WATER SYSTEMS
  - SOURCE (RAW) WATER EXCEEDANCE OF THE PFAS MCLS
- ENV-WQ 600 – COMING SOON
  - PUBLICLY-OWNED AND NON-PROFIT WASTEWATER AND/OR WASTEWATER RESIDUAL TREATMENT OR STORAGE FACILITIES
  - REQUIRED TO TREAT EFFLUENT AND RESIDUALS TO ACHIEVE PFAS STANDARDS PRIOR TO DISCHARGE OR DISPOSAL

# ENV-DW 1400

- COMMUNITY WATER SYSTEMS AND NON-PROFIT, NON-TRANSIENT PUBLIC WATER SYSTEMS
- CONFIRMED EXCEEDANCE OF THE PFAS MCLS IN UNTREATED SOURCE WATER(S)
- FOR REMEDIATION EFFORTS COMMENCING AFTER SEPTEMBER 30, 2019
- ADDITIONAL CRITERIA FOR ELIGIBILITY:
  - DEMONSTRATE THE PROPOSED PLAN IS THE MOST COST-EFFECTIVE REMEDIAL SOLUTION
  - PROVIDE EVIDENCE THERE ARE NOT ANY NO-COST OR LOW-COST EFFORTS TO ACHIEVE COMPLIANCE WITH NO UNREASONABLE ADVERSE AFFECTS
  - SHOW THAT THERE IS NO RESPONSIBLE PARTY IDENTIFIED OR THAT A RESPONSIBLE PARTY HAS PROVIDED THEIR APPROPRIATE SHARE

Perfluorochemical	Maximum Contaminant Level (MCL) / Ambient Groundwater Quality Standards (AGQS) (parts per trillion – ppt)
Perfluorooctanoic Acid (PFOA)	12
Perfluorooctanesulfonic Acid (PFOS)	15
Perfluorohexanesulfonic Acid (PFHxS)	18
Perfluorononanoic Acid (PFNA)	11

# PFAS COMPLIANCE SAMPLING ENV-DW 712

The image shows a 'Drinking Water and Groundwater Bureau Master Sampling Schedule' form for site 501. The form is dated September 29, 2020, and is page 2 of 2. It lists sampling requirements for the years 2019, 2020, and 2021. The sampling schedule is as follows:

Year	Sample Site Number(s)	Sample Site(s)	Sampling Quarter	Special Conditions
2019	501	DEP SAMPLING TAP PUMPHOUSE #001	-----T4	RENEW WAIVER
		NITRATE	-----T4	
		PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)	-----T4	
		PER- AND POLYFLUOROALKYL SUBSTANCES (SOG)	-----T4	
		SYNTHETIC ORGANIC COMPOUNDS (VOC)	-----T4	
2020	501	VOLATILE ORGANIC COMPOUNDS (VOC)	T1-Q2-Q3-Q4	
		DEP SAMPLING TAP PUMPHOUSE #001	-----Q4	
		NITRATE	-----Q4	
		PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)	-----Q4	
		PER- AND POLYFLUOROALKYL SUBSTANCES (SOG)	-----Q4	
2021	501	SYNTHETIC ORGANIC COMPOUNDS (VOC)	-----Q4	
		VOLATILE ORGANIC COMPOUNDS (VOC)	-----Q4	
		DEP SAMPLING TAP PUMPHOUSE #001	-----Q4	
		CYANIDE	-----Q4	
		INORGANIC CHEMICALS (IOC)	-----Q4	
		NITRATE	Q1-Q2-Q3---	
		NITRITE	-----Q4	
		PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)	-----Q4	
		PER- AND POLYFLUOROALKYL SUBSTANCES (SOG)	-----Q4	
		SYNTHETIC ORGANIC COMPOUNDS (VOC)	-----Q4	
		VOLATILE ORGANIC COMPOUNDS (VOC)	-----Q4	

- PFAS SAMPLING IS REQUIRED AGAIN STARTING IN Q4
- SAMPLE QUARTERLY FOR THE FIRST YEAR
  - TWO CONSECUTIVE QUARTERS OF NON-DETECTS CAN REQUEST WAIVER OF LAST TWO QUARTERS
  - WAIVER PROCESS FOR THE INJUNCTION PERIOD
- RESULTS WILL DICTATE FUTURE SAMPLING SCHEDULE
- PFAS CONCENTRATIONS WILL BE CALCULATED USING A RUNNING ANNUAL AVERAGE

Chip Mackey

[Harrison.mackey@des.nh.gov](mailto:Harrison.mackey@des.nh.gov)

(603) 271-0655



# ENV-DW 1400

- COMMUNITY WATER SYSTEMS AND NON-PROFIT, NON-TRANSIENT PUBLIC WATER SYSTEMS
- CONFIRMED EXCEEDANCE OF THE PFAS MCLS IN UNTREATED SOURCE WATER(S)
- FOR REMEDIATION EFFORTS COMMENCING AFTER SEPTEMBER 30, 2019
- ADDITIONAL CRITERIA FOR ELIGIBILITY:
  - DEMONSTRATE THE PROPOSED PLAN IS THE MOST COST-EFFECTIVE REMEDIAL SOLUTION
  - PROVIDE EVIDENCE THERE ARE NOT ANY NO-COST OR LOW-COST EFFORTS TO ACHIEVE COMPLIANCE WITH NO UNREASONABLE ADVERSE AFFECTS
  - SHOW THAT THERE IS NO RESPONSIBLE PARTY IDENTIFIED OR THAT A RESPONSIBLE PARTY HAS PROVIDED THEIR APPROPRIATE SHARE

Perfluorochemical	Maximum Contaminant Level (MCL) / Ambient Groundwater Quality Standards (AGQS) (parts per trillion – ppt)
Perfluorooctanoic Acid (PFOA)	12
Perfluorooctanesulfonic Acid (PFOS)	15
Perfluorohexanesulfonic Acid (PFHxS)	18
Perfluorononanoic Acid (PFNA)	11

# PFAS RLF DETAILS

- LOW INTEREST LOAN UP TO THE TOTAL COST OF THE PROJECT
  - FEDERAL PROVISIONS SHALL NOT APPLY UNLESS THE PROJECT RECEIVES FEDERAL FUNDING
- 10% LOAN PRINCIPAL FORGIVENESS BASED UPON NEED
  - MEDIAN HOUSEHOLD INCOME (MHI) IS LESS THAN THE STATEWIDE MHI
  - WATER RATE THAT EXCEEDS 0.8% OF THE SYSTEM OR TOWN MHI
  - AT LEAST 50% OF THE RESIDENTIAL UNITS SERVED MUST BE OCCUPIED AT LEAST 6 MONTHS OF THE YEAR
- CONTINGENT REIMBURSEMENT
  - UP TO 50% LOAN PRINCIPAL REIMBURSEMENT



# APPLICATION PROCESS

- OPEN ENROLLMENT
  - EACH PROJECT WILL BE REVIEWED IN THE ORDER IN WHICH SUBMITTED
- TWO PART APPLICATION PROCESS
  - ELIGIBILITY REQUEST
  - FINAL APPLICATION

The image shows two overlapping application forms from the New Jersey Department of Environmental Protection, Water Division/Drinking Water and Groundwater Bureau. The forms are titled 'ELIGIBILITY REQUEST' and 'FINAL LOAN APPLICATION', both for the Remediation Loan Fund (PFAS RJF). The forms contain various sections for project information, community data, and financial details.

**ELIGIBILITY REQUEST Form Sections:**

- 1. PUBLIC WATER SYSTEM INFORMATION: Includes fields for Water System Name, City/Town, Contact Person, Phone, and Email. It also has checkboxes for 'Municipal' and 'Private'.
- 2. PROJECT TITLE: A field for the project name.
- 3. PROJECT DESCRIPTION: A field for a concise description of the project and how it will address public health protection.
- 4. COMMUNITY INFORMATION: Includes fields for Current Residential Water Rate, Current Annual Cost per unit of water supply, and a checkbox for 'Based on 71,000 gallons/year'. It also includes a checkbox for 'Based on 2010 Census' and a checkbox for 'Based on 2010 Census'.
- 5. PROJECT JUSTIFICATION: A field for justification.

**FINAL LOAN APPLICATION Form Sections:**

- 1. PUBLIC WATER SYSTEM INFORMATION: Similar to the eligibility request form, but includes a 'Project Site where work will be performed' field.
- 2. PROJECT TITLE: A field for the project name.
- 3. PROJECT DESCRIPTION: A field for a concise description of the project need and how it will address public health protection and compliance with the Safe Drinking Water Act (SDWA).
- 4. PROJECT COSTS: A table for estimating costs, including Estimated Construction Cost, Construction Contingency (10%), Estimated Engineering / Planning Costs, and Other Costs. It also includes a field for 'Total Estimated Costs' and 'Amount of Loan Requested'.
- 5. LOAN TERM: A field for the loan term in years (15, 20, or 30).

# ELIGIBILITY REQUEST

**ELIGIBILITY REQUEST**  
Water Division/Drinking Water and Groundwater Bureau  
Per and Polyfluoroalkyl Substances  
Remediation Loan Fund (PFAS BLF)

MSA 405-14-31(1)-Dw-24-1400

**1. PUBLIC WATER SYSTEM INFORMATION:**

Water System Name:	PWS ID #
Town/City:	Municipal <input type="checkbox"/> Private <input type="checkbox"/>
Contact Person:	Title
Email:	Phone

**2. PROJECT TITLE:**

**3. PROJECT DESCRIPTION:**  
Provide a concise description of the proposed project and the need for the proposed project, including how it will address public health protection, and whether any alternatives have been considered.

**4. COMMUNITY INFORMATION:**

Current Residential Water Rate: \$ \_\_\_\_\_ /single family home/year  
Based on 71,996 gallons/year. If cost of water is included in other charges (rent, condo fees), break out the estimated annual cost per unit of water. NHQES may request back-up documentation as these figures are used to determine affordability.

Median Household Income (MHI): \$ \_\_\_\_\_  
If known, MHI of population served using results of a recent income survey or latest data from the American Community Survey at <https://www.census.gov/2019>  
Note: An income survey may be required for small, privately-owned water systems serving portions of a community where the survey data does not accurately reflect the income of the residents.

**5. PROJECT SCHEDULE:**

Anticipated Authority to Borrow Date:	
Anticipated Design Start Date:	
Anticipated Construction Contract Award Date:	
Anticipated Project Completion Date:	

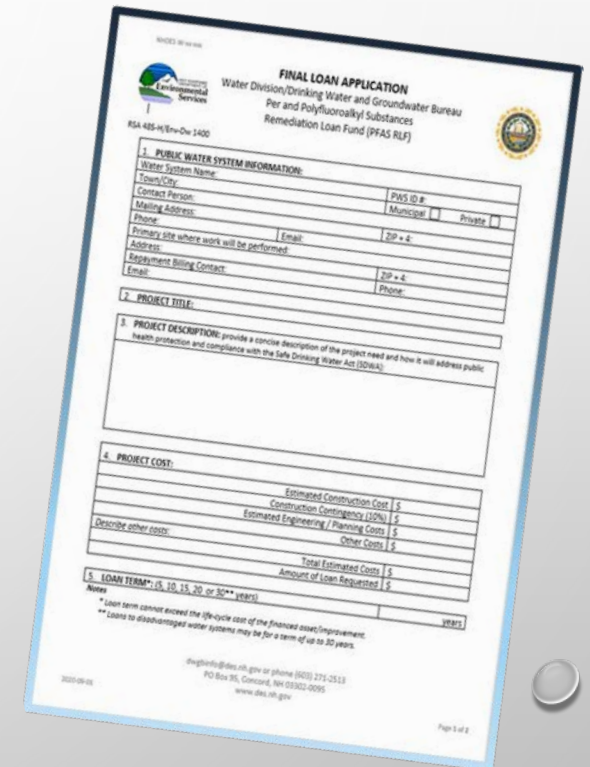
degriffin@des.nh.gov or phone (603) 271-2533  
PO Box 95, Concord, NH 03302-0095  
www.des.nh.gov

Page 1 of 2

- THE WATER SYSTEM'S IDENTIFYING INFORMATION
- APPLICANT'S POINT OF CONTACT INFORMATION
- A SHORT TITLE FOR THE PROJECT
- A CONCISE DESCRIPTION OF THE PROPOSED PROJECT AND THE NEED FOR THE PROPOSED PROJECT
- THE AMOUNT OF LOAN AND LOAN TERM REQUESTED
- AN ESTIMATE OF TOTAL PROJECT COSTS
- DEMONSTRATION THAT PROJECT COSTS MEET THE ELIGIBILITY REQUIREMENTS
- THE CURRENT RESIDENTIAL WATER RATE PER SINGLE FAMILY HOME PER YEAR
- THE MEDIAN HOUSEHOLD INCOME OF THE POPULATION SERVED
- THE DATE THE APPLICANT RECEIVED GOVERNING BODY APPROVAL TO BORROW FUNDS FOR THE PROJECT OR THE DATE THE APPLICANT ANTICIPATES RECEIVING SUCH APPROVAL
- THE ANTICIPATED DATE THE DESIGN WILL BE STARTED, CONSTRUCTION CONTRACT WILL BE AWARDED, AND PROJECT WILL BE COMPLETED

# FINAL APPLICATION

- WHETHER THE APPLICANT IS A GOVERNMENTAL OR NON-GOVERNMENTAL ELIGIBLE ENTITY
- THE PRIMARY LOCATION WHERE THE WORK WILL BE DONE
- THE TENTATIVE PROJECT SCHEDULE
- A STATE VENDOR CODE NUMBER
- THE NAME AND TITLE OF THE INDIVIDUAL AUTHORIZED TO SIGN THE APPLICATION ON BEHALF OF THE APPLICANT
- FOR GOVERNMENTAL APPLICANTS, A LETTER STATING WHETHER OR NOT THE APPLICANT HAS ANY DEBT OUTSIDE THE NH MUNICIPAL BOND BANK AND, IF THE DEBT IS RATED, THE RATING
- FOR NON-GOVERNMENTAL APPLICANTS, DOCUMENTATION OF THE EXTENT OF THE APPLICANT'S EXISTING DEBT
- A COPY OF THE APPLICANT'S LATEST ANNUAL REPORT OR FINANCIAL STATEMENTS
- CONFIRMATION OF THE APPLICANT'S AUTHORITY TO BORROW
- INFORMATION REGARDING THE ENVIRONMENTAL REVIEW
- A PLANNING DOCUMENT
- VERIFICATION OF A REVENUE PROGRAM



The image shows a 'FINAL LOAN APPLICATION' form for the Remediation Loan Fund (RLF) for Per and Polyfluoroalkyl Substances (PFAS). The form is titled 'FINAL LOAN APPLICATION' and is issued by the Water Division/Drinking Water and Groundwater Bureau. It includes sections for public water system information, project title, project description, project cost, and loan term. The form is dated 03/20/19 and is page 1 of 2.

**FINAL LOAN APPLICATION**  
Water Division/Drinking Water and Groundwater Bureau  
Per and Polyfluoroalkyl Substances  
Remediation Loan Fund (PFAS RLF)

RSA 485-H:Env-Div 1400

**1. PUBLIC WATER SYSTEM INFORMATION:**

Water System Name: \_\_\_\_\_  
Town/City: \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Primary site where work will be performed: \_\_\_\_\_  
Address: \_\_\_\_\_  
Payment Billing Contact: \_\_\_\_\_  
Email: \_\_\_\_\_

**2. PROJECT TITLE:** \_\_\_\_\_

**3. PROJECT DESCRIPTION:** provide a concise description of the project need and how it will address public health protection and compliance with the Safe Drinking Water Act (SDWA).  
\_\_\_\_\_  
\_\_\_\_\_

**4. PROJECT COST:**

Estimated Construction Cost	\$
Construction Contingency (10%)	\$
Estimated Engineering / Planning Costs	\$
Other Costs	\$
Total Estimated Costs	\$
Amount of Loan Requested	\$

**5. LOAN TERM:** (5, 10, 15, 20 or 30\*\* years) \_\_\_\_\_

Notes:  
\*\*Loan term cannot exceed the life-cycle cost of the financed asset/Improvement.  
\*\*\* Loans to disadvantaged water systems may be for a term of up to 30 years.

03/20/19  
Page 1 of 2

# OTHER PFAS FUNDING



- PFAS TREATMENT DESIGN SERVICES REIMBURSEMENT
  - SCHOOLS AND CHILD CARE CENTERS
  - DO NOT NEED TO BE A PUBLIC WATER SYSTEM
  - BASE REIMBURSEMENT OF \$4,816 OR 26% OF TOTAL PROJECT COST

# CONTACT INFORMATION

---

AMY ROUSSEAU  
PFAS RESPONSE ADMINISTRATOR  
[AMY.ROUSSEAU@DES.NH.GOV](mailto:AMY.ROUSSEAU@DES.NH.GOV)  
(603) 848-1372

CHIP MACKEY  
DRINKING WATER QUALITY MONITORING  
[HARRISON.MACKEY@DES.NH.GOV](mailto:HARRISON.MACKEY@DES.NH.GOV)  
(603) 271-0655

CINDY KLEVENS  
SMALL SYSTEMS ENGINEERING AND TREATMENT  
[CYNTHIA.KLEVENS@DES.NH.GOV](mailto:CYNTHIA.KLEVENS@DES.NH.GOV)  
(603) 271-3108

