

## WaterStart RFP - Round 19

Release date: May 17, 2021 (8am PST)

**WaterStart requests proposals from water technology companies to solve immediate demands for innovation by our members. If you are a company that is ready to prove their ability to scale-up by solving one of the priorities below, please apply!**

### Drinking Water Priorities

1. Treatment and recovery of flushed water
2. Prevention of the theft of fuel from diesel tanks and potential ground contamination
3. Internal bonding of steel pipelines
4. Lining of existing 24" or greater diameter pipelines

### Wastewater Priorities

5. Automated dosing in sewage treatment for septicity
6. Treatment of PFAS in wastewater
7. Treatment of Microplastics in wastewater

**Please note!** Supporting technical and business information can be found in page 3-5.

Deadline for submission: **June 18, 2021**      Evaluations completed by: **Aug 13, 2021**

### Summary and Background

WaterStart is nonprofit collective of globally recognized leaders who are adapting to change by scaling up new solutions to water challenges. We are in search of technology providers with novel solutions to specific priorities ready to be proven through large-scale pilots. If you're a tech company ready to scale-up by working with globally recognized customers with opportunities to enter new markets by solving imminent challenges in water, please apply.

The priorities listed above represent the collective needs among WaterStart members committed to installing innovative water technology solutions. Proposals should address one or more of these specific priorities. Grants are awarded on a competitive basis and range from \$25,000 to \$150,000.

### Proposal Guidelines

To view more details related to the above priority descriptions and submit a proposal to this RFP, an account with WaterStart's online knowledge sharing platform, Channels for Innovation (CHANNELS) must be created.

To create an account, visit WaterStart's website at <https://waterstart.com/> and follow these steps:

1. In the upper-right corner you will click on "[Become a Member/Login](#)"
2. Click "Sign Up" and then select "I Am a Tech Provider"
3. Fill in basic email and company information to create an account

Once the account is created, you will be able to log into CHANNELS and view and respond to all RFPs released by WaterStart.

To respond to this RFP, please follow these steps:

1. Click on “RFPs” and find the open RFP that you are responding to (Round 19)
2. Click on “Learn More”
3. Click on “Submit RFP”
4. Answer the questions and upload any supplemental information. Supplemental information **must not exceed 5 pages in length.**
5. Click on either “Save Draft” to complete later or “Submit RFP” to submit your response

### **Evaluation Criteria**

Criteria for judging applications will be based on:

1. Degree of technology’s alignment with listed priority
2. Stage of technology readiness
3. Degree of shared risk
4. Degree of implementation risk

### **Questions?**

Please feel free to contact our team at [proposals@waterstart.com](mailto:proposals@waterstart.com) should you need any assistance.

## Full Length Priorities

### Drinking Water (only) Priorities

#### 1. Treatment and recovery of flushed water

**Description:** WaterStart member is seeking a system that will limit the loss of water during a pipeline flushing event and ensure the safe and compliant discharge of this water. Ideally, water should be returned to the distribution system but if this is not possible, water can be returned to the environment while preventing chlorine/chloramines and sediment from entering the water course.

If the water is returned to the distribution system, the treatment process and associated products/service must meet Regulation 31 requirements which is necessary when in contact with potable water. If the water is being returned to the environment the solution should have the ability to optimise water treatment chemicals necessary to remove the disinfectant from the water and reduce sediment distribution.

#### (UK based priority)

#### 2. Prevention of the theft of fuel from diesel tanks and potential ground contamination

**Description:** Diesel fuel tanks exist for the provision of maintaining generator power supplies in periods of loss of power. They are housed within bunded pits and have vulnerable pipework and air vents.

WaterStart member is seeking comprehensive preventative solutions that may include physical asset-based options and/or alarms to prevent fuel theft from existing above ground, outdoor fuel tanks. Fuel tanks are situated within a fence line on both water and water recycling sites. Typically, the fuel pipework is secured with padlocks, whilst air vents are not secured. Security cameras are available on some sites.

#### (UK based priority)

#### 3. Internal bonding of steel pipelines

**Description:** WaterStart member would like to improve on the corrosion mitigation of steel pipelines that are not electrically bonded at the joints. The agency is therefore seeking a methodology to electrically bond the joints so that a cathodic protection can be efficiently installed and activated

This system will need to bond the existing pipe from the inside avoiding costly excavation to access the joints. The internal bonding system should not cause damage to or shorten the length of the existing pipe. The pipe can be drained to facilitate installation.

Materials must meet the materials NSF Regulation 61 (USA) for potable water and comply with regulatory water quality parameters, including NAC 445A.6726 and NAC 445A.6727 (Nevada Administrative Code).

**(US based priority)**

4. Lining of existing 24” or greater diameter pipelines

**Description:** WaterStart member is interested in refurbishing pipelines with a diameter of 24” and greater. The agency is specifically seeking solutions similar to cured-in-place (CIPP), spray lined coatings or hose pipe. Pipe materials include ACP, Mortar lined steel, Ductile, and PVC

The system should be able to be applied to pipelines over 1,000 ft between access points and navigate multiple 45-degree angles. The ideal system must also comply with regulatory water quality parameters, including NAC 445A.6726 and NAC 445A.6727 (Nevada Administrative Code) and materials must meet the NSF Regulation 61 (USA) for potable water.

**(US based priority)**

**Wastewater (only) Priorities**

5. Automated dosing in sewage treatment for septicity

**Description:** WaterStart member is seeking a technology that can automate the process of chemical dosing to allow for the accurate and optimized control of chemical use during sewerage treatment against septicity.

The ideal system should be robust, safe, easy to install and maintain. A system should have data logging capabilities to record events and must also be able to integrate and/or retrofit with existing systems.

**(UK based priority)**

**Drinking Water / Wastewater Priorities**

6. Treatment of PFAS in wastewater

**Description:** WaterStart member is seeking an innovative system/methodology that can detect and reduce (ideally remove) the concentrations of PFAS in the wastewater, particularly in sludge / biosolids.

The solution must be cost-effective, safe, and scalable within current treatment parameters. Keeping with the environmental standard (Australian), the ideal solution would also support existing circular economy initiatives among end-users and partnering utilities.

**(Australia-based priority)**

## 7. Treatment of Microplastics in wastewater

**Description:** WaterStart member is seeking an innovative system/methodology that can detect and reduce (ideally remove) the concentrations of Microplastics in the wastewater.

The solution must be cost-effective, safe, and scalable within current treatment parameters. Keeping with the environmental standard (Australian), the ideal solution would also support existing circular economy initiatives among end-users and partnering utilities.

**(Australia-based priority)**