



architects + engineers

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January 7, 2022

Ms. Kristine Wheeler, P.E., Director
Bureau of Water Supply Protection
New York State Department of Health
Corning Tower
Empire State Plaza, Rm 1110
Albany, New York 12237

Emailed To: bpwsp@health.ny.gov

Mr. Josh Mednick, P.E.
Suffolk County Department of Health Services
360 Yaphank Avenue, Ste. 1C
Yaphank, New York 11980-9653

**Re Riverhead Water District
Perfluorooctanoic Acid (PFOA) and
Perfluorooctanesulfonic Acid (PFOS) MCL Deferral
Emerging Contaminant Quarterly Update – 4th Quarter 2021
Public Water System ID# NY5103705**

Dear Ms. Wheeler and Mr. Mednick:

On behalf of the Riverhead Water District (District) and in accordance with the terms of the Deferral for the PFOS and PFOA MCL, which was approved on January 6, 2021 and shall be effective until August 25, 2022, our office has prepared the enclosed emerging contaminant quarterly update for the 4th quarter of 2021 (October 1, 2021 through December 31, 2021).

In 2020, the District sampled the wells at Plant No. 5 for PFA on a semi-annual basis. Starting in 2021, the sampling frequency moved to quarterly. In addition to sampling of the two supply wells, the District also has been securing a blended sample of the two wells to ascertain the levels that may potentially be introduced to system. To date, all samples being directed to system have been below the adopted MCL levels, although there was a lab issue with the initial quarterly samples and the resamples have not yet been analyzed. During the fourth quarter Well No. 5-1 was utilized in October but put on reserve through the end of the year. The total production from 5-1 during fourth quarter was 3.65 million gallons while the production from Well 5-2A was 58.5 million gallons over same period.

As requested by the Deferral approval, the District already provided the residents with the initial Public Notice. In addition, this Quarterly Update has been prepared to present the progress the District is making to install treatment systems to remove PFOS and PFOA. More specifically, this update provides:

- A. A summary of PFOA and PFOS sampling results for this quarter.
- B. Progress Reports on PFOA and PFOS treatment projects and any potential issues that could delay progress in meeting milestone dates presented in the Corrective Action Plan in the original Deferral request.

In summary, during the 4th quarter of 2021, the following actions were completed:

- On October 29, 2021, the Town / District received public bids have been received for four construction contracts; Plumbing; General, Electrical and Well. Lowest responsible bids were as follows: Contract G - General Construction - Philip Ross Industries for \$1,052,000; Contract P -

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Plumbing & Mechanical Construction - Philip Ross Industries for \$2,082,000; Contract E - Electrical Construction - Palace Electrical Contractors for \$1,311,000; Contract W - Well Pump Construction - Eagle Control Corp. for \$264,700.

- On December 7, 2021, the Town Board of Riverhead awarded four construction contracts based on the previous paragraph

The District will also post this Quarterly Update on the Town of Riverhead website. Please contact our office should you have any comments concerning this Deferral Update.

Very truly yours,

H2M architects + engineers



John R. Collins, P.E., LEED AP
Dept. Manager – Water Resources

JRC:jrc
Enclosure

cc: Supervisor Yvette Aguiar
Mr. Jason Hime, P.E. SCDHS
Supt. Frank Mancini, P.G.

Riverhead Water District
PWS ID No. NY5103705
Progress, Potential Issues and Water Quality Update



Quarterly Report Date: 1/7/2022

Prepared By: H2M architects+engineers

Milestone Description	Date	Completed (Y/N)	Delayed (Y/N)	Notes and Comments
Project No. 1 - Plant No. 5				
Pilot Test		N		Piloting not proposed due to proven validity of GAC for PFA removal.
Engineering Report	12/2020	Y	N	Engineering Report submitted to Suffolk County Dept. of Health Services & New York State DHS in June of 2021.
Design Complete	6/2021	Y	N	Design is complete. Plans and specifications were submitted to the New York and Suffolk County Dept. of Health for review on July 23, 2021
Start Construction	1/2022	N	Y	Public bids have been received for four construction contracts; Plumbing; General, Electrical and Well. Lowest responsible bids were as follows: Contract G - General Construction - Philip Ross Industries for \$1,052,000; Contract P - Plumbing & Mechanical Construction - Philip Ross Industries for \$2,082,000; Contract E - Electrical Construction - Palace Electrical Contractors for \$1,311,000; Contract W - Well Pump Construction - Eagle Control Corp. for \$264,700. Construction has begun.
50% Project Completion	4/2022	N	N	On Schedule
Complete Construction	10/2022	N	N	Contract period is 250 days putting completion by October 2022. Long lead times on equipment or need to delay contract due to permit District access to wells may potentially delay contract.

Potential Issues/Concerns/Delays Explanation:
Plan approval from NYS and Suffolk County Department of Health is key to keeping the schedule of October 2022. We are authorizing the contractor to begin preliminary work (i.e.. demolition, well work, submittals of major equipment), however plan approval is desirous prior to ordering treatment system and constructing foundations.

Riverhead Water District
PWS ID No. NY5103705
PFOA and PFOS Water Quality Summary



Status as of: January 1, 2021 through December 31, 2021
Prepared By: H2M architects+engineers

Location	Date Sampled	PFOA (ng/l)		PFOS (ng/l)		Treatment in Place (Y/N)	Notes and Comments
		Raw Level	Treated Level	Raw Level	Treated Level		
Well No. 5-1	3/24/2021	6.2		10.7		N	Blended Sample
Well No. 5-2A	3/24/2021	2.9		5.0		N	
Well No. 5-1/5-2A	3/24/2021	4.5		7.6			
Well No. 5-1	6/9/2021	6.7		17.5		N	Blended Sample
Well No. 5-2A	6/9/2021	2.1		<1.9		N	
Well No. 5-1/5-2A	6/9/2021	4.3		9.8			
Well No. 5-1	9/20/2021	4.9		12.7		N	Blended Sample
Well No. 5-2A	9/20/2021	<1.9		<1.9		N	
Well No. 5-1/5-2A	9/20/2021	3.1		7.0			
Well No. 5-1	12/29/2021	Pending		Pending		N	Blended Sample
Well No. 5-2A	12/29/2021	Pending		Pending		N	
Well No. 5-1/5-2A	12/29/2021	Pending		Pending			
Notes: Sample results are post treatment levels							
PFOA	Perfluorooctanoic Acid						Bold results exceed MCL
PFOS	Perfluorooctanesulfonic Acid						
ND	Non-detect						
MCL	Maximum Contaminant Level						
NS	Not Sampled						

Water Quality Test Results Attachments to Follow