



architects + engineers

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April 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 – 1st Quarter 2022
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 1st quarter of 2022 (January 1, 2022 through March 31, 2022).

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, however Well No. 5-1 consistently exceeds the MCL for PFOS. During the first quarter Well Nos.: 5-1 was not utilized as District demand did not require its use. Well No. 5-2A continues to be used with a total production from the well in the first quarter of 24.6 million gallons. The District will be running both wells to system for the summer demand season.

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.
- C. Pumpage Report.

In summary, during the 1st quarter of 2022, the following actions were completed:

- Bids were received for the construction of wellhead treatment. One contract was awarded and notice to proceed issued. Construction submittals for major equipment have been approved and

Riverhead Water District
Water Quality Deferral
April 7, 2022
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work has begun with grading and placement of the foundation and slab. Treatment vessels have been ordered.

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

A handwritten signature in blue ink, appearing to read 'JRC'.

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

JRC:ctw
Enclosure

cc: Supervisor Yvette Aguiar
Supt. Frank Mancini, P.G.

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



Quarterly Report Date: 4/7/2022

Prepared By: H2M architects+engineers

Milestone Description	Date	Completed (Y/N)	Delayed (Y/N)	Notes and Comments
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 in June of 2021.
Design Complete	6/2021	Y	N	Design is complete. Plans and specifications were submitted to the Suffolk County Dept. of Health for review on January 20, 2022
Start Construction	1/2022	Y	N	Public bids have been received for one construction contract. Lowest responsible bid was submitted by Philip Ross Industries for \$1,438,400. Construction has begun.
50% Project Completion	4/2022	Y	N	The project is approaching 50% constructed with the foundation and slab placed, GAC vessels and building on order.
Deferral Expiration	8/2022	N	N	
Complete Construction	10/2022	N	N	Contract period is 250 days putting completion by October 2022.

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

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



Status as of: January 1, 2021 through March 31, 2022
Prepared By: H2M architects+engineers

Location	Date Sampled	PFOA		PFOS		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		
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			Blended Sample	
Well No. 5-1	6/9/2021	6.7		17.5		N		
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			Blended Sample	
Well No. 5-1	9/20/2021	4.9		12.7		N		
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			Blended Sample	
Well No. 5-1	10/15/2021	5.9		17.6		N		
Well No. 5-2A	10/15/2021	<1.9		<1.9		N		
Well No. 5-1/5-2A	10/15/2021	3.6		8.7			Blended Sample	
Well No. 5-1	3/7/2022	8.2		10.0		N		
Well No. 5-2A	3/7/2022	3.5		4.3		N		
Well No. 5-1/5-2A	3/7/2022	6.0		7.9		N	Blended Sample	
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

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Region 1

SUNY @ Stony Brook, 50 Circle Road, Stony Brook, NY 11790
 P:(631) 444-0405 | F:(631) 444-0424 | Email: R1dow@dec.ny.gov
 www.dec.ny.gov

Instructions to add more columns for additional wells:

Right click on heading letter H and click insert.

Right click on cell G32, press copy.

Right click on cell G33, press paste special - formula (Fx).

Repeat steps above to create as many additional columns as needed.

Reporting Period:	2021
Utility Name:	Riverhead Water Dist
Address:	1035 Pulaski st Riverhead New York.
Report Prepared By:	John Flynn
Phone Number:	631-727-3205
Email Address:	flynn@townofriverheadny.gov

PUMPAGE DATA

DEC Well Number:	S-108348	S-7261	S-111777	S-30271	S-34732	S-66685	S-124088	S-89133	S-105439	S-114622	S-122918
WSA or WWA #:	WSA9370	WSA1938	WSA9370	WSA5522	WSA5641	WSA6842	WSA66685	WSA7782	WSA9065	n/a	n/a
District Well ID:	Well#1a	Well#2	Well#3a	Well#4-1	Well#4-2	Well#5-1	Well#5-2a	Well#7-2	Well#7-3	Well#11-1	Well#11-2
Authorized Capacity:	1000 gpm	1000 gpm	1000 gpm	1000 gpm	1200 gpm	1200 gpm	1380 gpm	1200 gpm	1200 gpm	1350 gpm	1350 gpm
Actual Capacity:	1000 gpm	900 gpm	1000 gpm	1000 gpm	1200 gpm	1200 gpm	1100 gpm	1200 gpm	1200 gpm	1325 gpm	1350 gpm
January	9,892,000	0	18,392,000	18,474,000	0	0	14,055,000	5,956,000	10,011,000	13,729,000	1,743,000
February	21,178,000	0	9,885,000	15,346,000	0	0	10,589,000	4,747,000	7,171,000	6,294,000	9,427,000
March											
April											
May											
June											
July											
August											
September											
October											
November											
December											
Total	31,070,000	0	28,277,000	33,820,000	0	0	24,644,000	10,703,000	17,182,000	20,023,000	11,170,000

NOTE: Pumpage entered in thousands of gallons

Sum of Monthly Total
Sum of Each Well Total

- 1. Population served in service area: 35,000
- 2. Population served outside of own service area: _____
- 3. Percent of Customers Metered: _____
- 4. Number of Services: _____
- 5. Peak Day Rate: _____
- 6. Date of Peak Occurrence: _____
- 7. Number of wells which can be operated by power source other than electric: 14
- 8. Amount of water purchased from another water district (thousands of gallons): _____
- 9. District water was purchased from: SCWA
- 10. Amount of water supplied to another district _____

(thousands of gallons):

11. District water supplied to:

SCWA

STORAGE FACILITIES

Name	Type	Capacity
Pulaski St Tank	Elevated	0.16 million
Baiting Hollow Plt 8	Standpipe	1.0 million
Wading River Plt no.9	Standpipe	0.827 million
Northville Plt no. 10	Ground	1.5 million
Route 58 Tank	Elevated	0.75 million
Tuthills Lane Plt 15	Ground	2.0 million

NOTE: Storage facility capacity entered in millions of gallons

S-49605	S-129655	S-129656	S-129657	S-129453	S-130317	S.C.W.A	S.C.W.A	
n/a	WSA11249	WSA11249	WSA11249	WSA11367	WSA11411			
Well#12-1	Well#15-1	Well#15-2	Well#15-3	Well#16-1	Well#17-1	Merokee Trail	Dogwood Dr	
1000 gpm	250 gpm	250 gpm	250 gpm	1380 gpm	1380 gpm	interconnect	interconnect	
1000 gpm	250 gpm	250 gpm	250 gpm	1300 gpm	400 gpm			Monthly Totals
0	451,000	58,000	538,000	608,000	0	0	0	93,907,000
0	120,000	82,000	148,000	499,000	0	0	0	85,486,000
								0
								0
								0
								0
								0
								0
								0
								0
								0
								0
0	571,000	140,000	686,000	1,107,000	0	0	0	179,393,000