



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

**Re Greenlawn Water District
1,4-Dioxane MCL Deferral
Emerging Contaminant Quarterly Update – 4th Quarter 2021
Public Water System ID# NY5103271**

Dear Ms. Wheeler and Mr. Hime:

On behalf of the Greenlawn Water District, our office has prepared the enclosed emerging contaminant quarterly update for the 4th quarter of 2021 (October 1 through December 31, 2021).

The Greenlawn Water District has, for the past several years, been proactively addressing the issues of emerging contaminants in their supply wells. However, with the MCL being established for 1,4-dioxane in August 2020, the District did not have sufficient time to implement wellhead treatment for the removal of 1,4-dioxane. The District requested a Deferral for the 1,4-dioxane MCL which was approved on January 6, 2021 and shall be effective until August 25, 2022.

As requested by the Deferral approval, the District provided the residents with the Public Notice and it is posted on their website. In addition, this Quarterly Update has been prepared to present the progress the District is making to install treatment systems to remove 1,4-dioxane. More specifically, this update provides:

- A. A summary of 1,4-dioxane sampling results for this quarter.
- B. Progress Reports on 1,4-dioxane 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, **all water delivered by the District was below the MCL for 1,4-dioxane**. Well No. 12 was not used during the quarter and remains to be utilized only in a water emergency.

Construction of the new AOP treatment system for Well No. 12 began in August 2021. The treatment system is anticipated to be on-line in late Spring 2022. In August 2021, the District authorized proceeding with wellhead treatment for 1,4-dioxane at Well Nos. 8 and 11. The project for Well No. 8 is expected to be completed approximately one-year after the project for Well No. 12, late spring of 2023. The project for Well No. 11 will lag by an additional 4 months, early fall of 2023. A formal request for the extension of the MCL deferral period will be sent under separate cover.

This Quarterly Update has been posted on the Greenlawn Water District website.

Please contact our office should you have any comments concerning this Deferral Update.

Very truly yours,

H2M architects + engineers

A handwritten signature in black ink, appearing to read 'D. M. Kelleher'.

Dennis M. Kelleher, P.E.
Executive Vice President

DMK:mww

Enclosure

cc: Board of Commissioners
Mr. Joshua Mednick
Supt. Robert Santoriello

Greenlawn Water District
PWS ID No. NY5103271
Progress, Potential Issues and Water Quality Update



Quarterly Report Date: 1/1/2022

Prepared By: H2M architects+engineers

Milestone Description	Original Schedule	Revised Schedule	Completed (Y/N)	Delayed (Y/N)	Notes and Comments
Project No. 1 - Plant No. 12 AOP					
Pilot Test	-	-	Y		Completed prior to deferral request application.
Engineering Report	12/2020	-	Y	Y	Completed in April 2021.
Design Complete	2/2021	-	Y	Y	Completed in May 2021.
Start Construction	3/2021	8/2021	Y	Y	Construction to started in August 2021.
Complete Construction	3/2022	6/2022	N	Y	Expected substantial completion June 2022.
Project No. 2 - Plant No. 8 AOP					
Pilot Test	1/2021	1/2022	N	Y	District authorized start of pilot study in August 2021.
Engineering Report	3/2021	1/2022	N	Y	District authorized engineering report in August 2021.
Design Complete	7/2021	4/2022	N	Y	
Start Construction	9/2021	5/2022	N	Y	
Complete Construction	10/2022	6/2023	N	Y	Expected Startup May 2023.
Project No. 3 - Plant No. 11 AOP					
Pilot Test	2/2021	5/2022	N	Y	District authorized start of pilot study in August 2021.
Engineering Report	4/2021	5/2022	N	Y	District authorized engineering report in August 2021.
Design Complete	8/2021	8/2022	N	Y	
Start Construction	10/2021	9/2022	N	Y	
Complete Construction	11/2022	10/2023	N	Y	Expected Startup September 2023.

Potential Issues/Concerns/Delays Explanation:
All three projects have been authorized by the District. Project No. 1 is scheduled to be fully implemented by summer 2022. Project No. 2 to be fully implemented approximately one-year later. Project No. 3 will lag Project No. 2 by approximately 4 months. An extension of the MCL deferral date was requested with the previous quarterly update.

Status as of: October 1, 2021 through December 31, 2021Prepared by: H2M architects+engineers

Location	Date Sampled	1,4-Dioxane (ug/L)	1,4-Dioxane Treatment in Place (Y/N)	Notes and Comments	
		Finished Water Level			
Well No. 3	10/13/2021	0.08	N	NOT IN USE DURING THIS QUARTER	
Well No. 4	10/13/2021	0.12	N		
Well No. 5	10/13/2021	0.54	N		
Well No. 6	10/13/2021	0.27	N		
Well No. 8	10/13/2021	0.77	N		
Well No. 9	10/13/2021	0.11	N		
Well No. 10	10/13/2021	0.35	N		
Well No. 11	10/14/2021	0.84	N		
Well No. 12	-	NS	N		
Well No. 13	10/14/2021	0.30	N		
Well No. 14	10/14/2021	0.24	N		
Well No. 15	10/14/2021	0.34	N		
Well No. 17	10/14/2021	0.17	N		
Well No. 18	10/14/2021	0.20	N		
Notes:	Well No. 12 not in use during this quarter. Sample results are of finished water levels.				
ND	Non-detect	Bold results exceed MCL			
MCL	Maximum Contaminant Level				
NS	Not Sampled				

Water Quality Test Results Attachments to Follow