



architects + engineers

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April 1, 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

Emailed To: Jason.Hime@suffolkcountyny.gov

**Re Greenlawn Water District
1,4-Dioxane MCL Deferral
Quarterly Report – 1st Quarter 2022
Public Water System ID# NY5103271**

Dear Ms. Wheeler and Mr. Hime:

On behalf of the Greenlawn Water District, our office has prepared the enclosed 1,4-Dioxane MCL Deferral Quarterly Report for the first quarter of 2022 (January 1 through March 31, 2022).

As their record demonstrates, the District has been proactive in addressing the issues of emerging contaminants in their supply wells. However, with the MCL for 1,4-Dioxane established in August 2020, the District did not have sufficient time to implement wellhead treatment at their most threatened wells. The District requested a deferral for the MCL which was approved on January 6, 2021 and currently in effect through August 25, 2022.

As requested by the deferral approval, the District provided the residents with a public notice and posted said notice to their website. In addition, this Quarterly Report 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 report 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.

As shown in the attached 1,4-Dioxane Water Quality Summary, during the 1st quarter of 2022, **all water delivered by the District was below the MCL for 1,4-Dioxane**. Well Nos. 4 and 12 were not used during the quarter.

Construction of the new AOP treatment system for Well No. 12 (Project No. 1) began in August 2021 and is anticipated to be on-line in summer 2022. Equipment and material delays have impacted the completion schedule. In August 2021, the District authorized proceeding with wellhead treatment for 1,4-Dioxane at Well Nos. 8 (Project No. 2) and 11 (Project No. 3). Pilot testing, engineering reports, and design will be completed for both projects in 2022. With 1,4-Dioxane levels trending slightly higher at Well No. 11, the construction of Project No. 3 has been prioritized over Project No. 2, with the former expected to be

complete in late 2023, and the later in mid-2024. The District intends to make a formal request for the extension of the MCL deferral period one month prior to the current expiration.

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

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

Very truly yours,

H2M architects + engineers

A handwritten signature in black ink that reads "Michael W. Weber".

Michael W. Weber, P.E.
Senior Discipline Engineer

MWW

Enc.

cc: Board of Commissioners
Supt. Robert Santoriello - eCopy
Mr. Joshua Mednick, P.E. - eCopy
Dennis M. Kelleher, P.E. - eCopy

Greenlawn Water District
PWS ID No. NY5103271
1,4-Dioxane Water Quality Summary



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

| Location | Date Sampled | 1,4-Dioxane (ug/L) ⁽¹⁾ | 1,4-Dioxane Treatment in Place (Y/N) | Notes and Comments | |
|--|---------------------------|-----------------------------------|--------------------------------------|---|---|
| Well No. 3 | 1/26/2022 | 0.07 | N | Not in use during this quarter ⁽²⁾ | |
| Well No. 4 | - | NS | N | | |
| Well No. 5 | 1/26/2022 | 0.60 | N | | |
| Well No. 6 | 1/26/2022 | 0.37 | N | | |
| Well No. 8 | 1/26/2022 | 0.82 | N | | |
| Well No. 9 | 1/26/2022 | 0.07 | N | | |
| Well No. 10 | 1/26/2022 | 0.33 | N | | |
| Well No. 11 | 1/26/2022 | 0.89 | N | | |
| Well No. 12 | - | NS | N | | Not in use during this quarter ⁽³⁾ |
| Well No. 13 | 1/26/2022 | 0.35 | N | | |
| Well No. 14 | 1/26/2022 | 0.20 | N | | |
| Well No. 15 | 1/26/2022 | 0.36 | N | | |
| Well No. 17 | 1/26/2022 | 0.18 | N | | |
| Well No. 18 | 1/26/2022 | 0.21 | N | | |
| Notes: (1) Sample results are of finished water levels. (2) Well No. 4 out of service due to pump work. (3) Well No. 12 out of service due to construction of AOP treatment. | | | | | |
| ND | Non-detect | Bold results exceed MCL | | | |
| MCL | Maximum Contaminant Level | | | | |
| NS | Not Sampled | | | | |

Water Quality Laboratory Results Attached

Greenlawn Water District
PWS ID No. NY5103271
Project Progress Summary



Status as of: January 1 through March 31, 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 started in August 2021. |
| Complete Construction | 3/2022 | 9/2022 | N | Y | Expected startup and performance testing in August 2022. |
| Project No. 2 - Plant No. 8 AOP | | | | | |
| Pilot Test | 1/2021 | 5/2022 | N | Y | District authorized start of pilot study in August 2021. |
| Engineering Report | 3/2021 | 6/2022 | N | Y | District authorized engineering report in August 2021. |
| Design Complete | 7/2021 | 8/2022 | N | Y | |
| Start Construction | 9/2021 | 3/2023 | N | Y | |
| Complete Construction | 10/2022 | 4/2024 | N | Y | Expected startup and performance testing in April 2024. |
| Project No. 3 - Plant No. 11 AOP | | | | | |
| Pilot Test | 2/2021 | 4/2022 | 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 | 7/2022 | N | Y | |
| Start Construction | 10/2021 | 9/2022 | N | Y | |
| Complete Construction | 11/2022 | 10/2023 | N | Y | Expected startup and performance testing in September 2023. |

Potential Issues/Concerns/Delays Explanation:

Project No. 1 is scheduled to be fully implemented during the summer 2022. Project No. 3 has been prioritized over Project No. 2. Staggering the construction schedules will ease the financial burden to the District. An extension of the MCL deferral period will be formally requested one month prior to the current expiration.