

**TOWN OF HEMPSTEAD
1,4 DIOXANE AND PFOA/PFOS REMOVAL PROJECTS
QUARTERLY REPORT**

In support of the Department of Water's Deferral Application

Fourth Quarter 2020

**Prepared by the Town of Hempstead Department of Water
PWSID #NY2900000
January 7, 2021**

Executive Summary

The following Quarterly Report was prepared by the Town of Hempstead Department of Water (Department) to provide an update and status of the improvements being planned and constructed by the Department to our customers and the New York State Department of Health (NYSDOH) and Nassau County Department of Health (NCDOH) and covers the period from the adoption of the new MCLs through December 31, 2020. As of the creation of this document the Department of Water has not received any official correspondence related to its deferral application or requirements thereunder, however the Department felt it was prudent to prepare a quarterly report as it believes that any deferral granted would be retroactive to the MCL adoption.

This report will provide a project by project update on the progress and efforts made during the previous three month period, any modification to the planned timeline of improvement milestones along with an explanation and justification for the modification. Finally Appendix A of this report contains 1,4 dioxane test results for all Department wells which ran to system during the fourth quarter of 2020.

1995 Prospect Avenue (west) East Meadow Well 1 (N3456) and East Meadow Well 3 (N3465)

At the Town Board Meeting held on December 6, 2020 a public hearing was held and Town Board Resolution No. 1321-2020 was passed to authorize the borrowing of \$8,000,000.00 to finance this project.

The pilot study at these wells including the optimization runs was completed in early December of 2020 ahead of schedule and the consultant has begun preparing the Pilot Study report and BOD report. Once completed these reports will be submitted to the NYSDOH and NCDOH for their review and comments.

1995 Prospect Avenue (east) East Meadow Well 5 (N4448) and East Meadow Well 11 (N7797)

On December 9, 2020, the Pilot Study Report and BOD report was submitted to the NYSDOH and NCDOH by the consultant and they are awaiting comments.

At the Town Board Meeting held on December 6, 2020 a public hearing was held and Town Board Resolution No. 1322-2020 was passed to authorize the borrowing of \$16,000,000.00 to finance this project.

Parallel to the preparation of the BOD report, our consultant has been preparing design drawings which will be amended and revised as needed based on comments received from the Health Departments. On November 4, 2020 a virtual meeting was held between the Department of Water and our consultant to review a 30% design submission of these plans. Based on the outcome of this meeting design work has continued.

Well 11 continues to be voluntarily removed from service due to elevated nitrate levels and did not run to system during this quarter.

Oak Street Well Site Uniondale Well 5 (N8474) and Uniondale Well 6 (N8475)

Pilot Testing and optimization runs were completed at this site on the last week of September 2020. Despite this work being completed slightly ahead of schedule laboratory analysis was delayed due to COVID-19 related delays at the laboratory performing the work. As a result of the delay in receiving these results our consultant has been delayed in preparing the final copy of the BOD and Pilot Study Report to the Health Departments. These reports and their submissions should be completed by the end of-January 2021. This delay is not holding up the project as our consultant is designing the project parallel to the report development which will be amended and revised as needed based on comments received on the Health Departments.

On December 22, 2020 a virtual meeting was held between the Department of Water and our consultant to review a 30% design submission of these plans. Based on the outcome of this meeting design work has continued.

At the Town Board Meeting held on December 6, 2020 a public hearing was held and Town Board Resolution No. 1327-2020 was passed to authorize the borrowing of \$11,000,000.00 to finance this project.

Hilltop Well Site Levittown Well 1A (N13887) and 2A (N8231)

Through the fourth quarter of 2020 our consultant continued work on the BOD and Pilot Study Report for the entirety of this project which includes the installation of a nitrate removal facility. Preparation of the final copy of the report was slightly delayed as our consultant gathered information from various sources regarding the ion-exchange equipment currently operating at another Town facility to include this information in the BOD report. The Consultant believes the final report will be ready for submission before the last week of January 2021.

This delay is not holding up the project as our consultant is designing the project parallel to the report development which will be amended and revised as needed based on comments received from the Health Departments.

At the Town Board Meeting held on December 6, 2020 a public hearing was held and Town Board Resolution No. 1325-2020 was passed to authorize the borrowing of \$15,000,000.00 to finance this project.

Market Lane well site Levittown Well 5A (N7076) and Levittown Well 6B (N12560)

Our consultant received comments from the NCDOH dated November 5, 2020 on the Pilot Test and BOD report previously submitted to the Departments of Health and addressed all comments and concerns in a response dated November 24, 2020.

At the Town Board Meeting held on December 6, 2020 a public hearing was held and Town Board Resolution No. 1326-2020 was passed to authorize the borrowing of \$12,000,000.00 to finance this project.

Our consultant has been preparing design drawings which will be amended and revised as needed based on comments received on the Health Departments. On December 11, 2020 a virtual meeting was held between the Department of Water and our consultant to review a 30% design submission of these plans. Based on the outcome of this meeting design work has continued.

Entry Lane Levittown, Levittown Well 13 (N5303)

Our consultant received comments from the NCDOH dated November 6, 2020 on the Pilot Test and BOD report previously submitted to the Departments of Health and addressed all comments and concerns in a response dated November 24, 2020.

At the Town Board Meeting held on December 6, 2020 a public hearing was held and Town Board Resolution No. 1324-2020 was passed to authorize the borrowing of \$8,110,000.00 to finance this project.

Our consultant has been preparing design drawings which will be amended and revised as needed based on comments received on the Health Departments. On December 11, 2020 a virtual meeting was held between the Department of Water and our consultant to review a 30% design submission of these plans. Based on the outcome of this meeting design work has continued.

Dibblee Drive Well Site Roosevelt Field Well 7 (N9521), Well 11 (N13524) and Well 12 (N13525)

Pilot Testing and optimization runs were completed at this site mid-November 2020. Our consultant is now compiling the data collected during these runs and is in the process of preparing the BOD and Pilot Study Report for the Health Departments. While the pilot testing was completed on-time, laboratory analysis was delayed due to COVID-19 related delays at the laboratory performing the work. It is anticipated that these delays will cause a delay in submission of the BOD and Pilot Study Report for the Health Departments (originally scheduled for January 15, 2021) however this delay is not holding up the project as our consultant is designing the project parallel to the report development which will be amended and revised as needed based on comments received on the Health Departments. On December 22, 2020 a virtual meeting was held between the Department of Water and our consultant to review a preliminary design submission of these plans. Based on the outcome of this meeting design work has continued.

At the Town Board Meeting held on December 6, 2020 a public hearing was held and Town Board Resolution No. 1323-2020 was passed to authorize the borrowing of \$22,000,000.00 to finance this project.

Bowling Lane Well Site Levittown Well 7A (N8279) and Levittown Well 8A (N7523)

The Department began preparing documents to solicit proposals from professional firms for design services related to this site.

Iris Place Well Site Bowling Green Well 1 (8956) and Bowling Green Well 2 (N8957)

The Department has begun preparing documents to procure a professional services contractor to study the feasibility of installing an AOP treatment system for the removal of 1,4 dioxane as well as the reduction of organic concentrations. These wells remain out of service voluntarily.

East Meadow Site II East Meadow Well 6 (N5318) and Well 8 (N5320)

The Department began preparing documents to solicit proposals from professional firms for design services related to this site.

Roosevelt Field Well 5 (N7957)

No work was contemplated for this well during the fourth quarter of 2020. This well remains voluntarily out of service.

APPENDIX A

1,4 Dioxane Results (ug/L (parts per billion))

WELL	2018	2019	4th Q 2020
EM1	4.3	5.6	2.6
EM3	0.76	0.79	0.85
EM5	0.46	0.61	0.59
EM6	0.48	0.34	0.25
EM8	0.11	0.91	0.71
EM10	0.87	0.40	0.61
EM11	1.2	1.2	1.3 *
UN1	0.15	<0.20	0.17
UN2	<0.10	0.069	0.08
UN3	<0.070	<0.020	<0.07
UN4	0.25	0.25	0.16
UN5	1.3	1.4	1.5
UN6	2.7	2.9	3.4 *
LEV1A	0.31	3.7	4.1 *
LEV2A	4.0	3.4	2.6 *
LEV5A	0.47	0.31	0.35
LEV6B	1.6	1.4	1.6
LEV7A	1.0	0.91	1.6
LEV8A	0.27	0.28	1.0
LEV12	0.37	0.38	0.12
LEV13	<0.070	1.4	1.8
LEV14	<0.020	<0.020	<0.07
RF5	3.1	3.5	1.4 *
RF7	0.97	0.97	1.4
RF10	0.21	0.18	0.29
RF11	1.6	0.72	1.1
RF12	1.5	1.5	1.6
BG1	2.6	2.3	2.2 *
BG2	1.5	1.4	1.5 *

* well is currently not running to system.