

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 25-08

HANOVER PARK WATER RECLAMATION PLANT

FISCHER FARM MONITORING REPORT

FOR FOURTH QUARTER 2024:

SPECIAL CONDITION 2

May 2025



Metropolitan Water Reclamation District of Greater Chicago

CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX
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January 28, 2025

Illinois Environmental Protection Agency
Bureau of Water
DWPC Compliance Section #19
2520 W. Iles Ave
P.O. Box 19276
Springfield, Illinois 62794-9276

Dear Sir or Madam:

Subject: Hanover Park Water Reclamation Plant – Illinois Environmental Protection Agency Permit
No. 2022-SC-66896, Special Condition 2 Monitoring Report for October, November, and
December 2024

The attached table contains the monitoring data for the Hanover Park Water Reclamation Plant (WRP) Fischer Farm site for October, November, and December 2024, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2022-SC-66896, Special Condition 2. Analytical data for well water samples collected during the quarter are presented in Table 1.

Since implementing management practices to reduce the loading in adjacent biosolids lagoons and stop all applications of supernatant and biosolids in the closest farm field (Field 7), $\text{NH}_3\text{-N}$ plus $\text{NO}_2^- + \text{NO}_3^- \text{-N}$ in Well 7 has shown a decreasing trend. We will continue to implement these practices and evaluate this trend. The data reported are as follows:

Table 1: Analysis of Water From Monitoring Wells W-5, W-6, W-7, and W-8 at the Hanover Park Fischer Farm Site Sampled in October 2024.

Figure 1: Map of Fields and Wells at the Hanover Park Fischer Farm Site of the Metropolitan Water Reclamation District of Greater Chicago.

Very truly yours,

Albert Cox, Ph.D.
Environmental Monitoring and Research Manager
Monitoring and Research Department

AC:lf

Attachment

cc: Mr. T. Bennett, IEPA
Mr. B. Fleming, IEPA
Mr. K. Middleton, USEPA, Region 5
Mr. J. Chavich/Mr. B. Kaunelis
Mr. P. Desai/Dr. H. Zhang

Metropolitan Water Reclamation District of Greater Chicago
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**HANOVER PARK WATER RECLAMATION PLANT
FISCHER FARM MONITORING REPORT
FOR FOURTH QUARTER 2024:
SPECIAL CONDITION 2**

By

**Benjamin Morgan
Environmental Soil Scientist**

**Albert Cox
Environmental Monitoring and Research Manager**

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS W-5, W-6, W-7, AND W-8 AT THE HANOVER PARK FISCHER FARM SITE SAMPLED IN OCTOBER 2024¹

| | Unit | W-5 | W-6 | W-7 | W-8 |
|---|--------------------|--------|--------|------------------|--------|
| pH ² | | 7.8 | 7.9 | 8.5 | 8.4 |
| EC | mS m ⁻¹ | 75 | 77 | 55 | 55 |
| Cl ⁻ | mg L ⁻¹ | 18 | 21 | 10 | 10 |
| SO ₄ ²⁻ | " | 99 | 114 | 50 | 53 |
| Alkalinity as CaCO ₃ | " | 314 | 297 | 249 | 248 |
| TKN | " | <1.00 | <1.00 | <1.00 | <1.00 |
| NH ₃ -N | " | 0.30 | 0.32 | 0.42 | 0.94 |
| NO ₂ ⁻ +NO ₃ ⁻ -N | " | <0.50 | <0.50 | <0.50 | <0.50 |
| Total P | " | <0.15 | <0.15 | <0.15 | <0.15 |
| Cd | " | <0.002 | <0.002 | <0.002 | <0.002 |
| Cr | " | <0.004 | <0.004 | <0.004 | <0.004 |
| Cu | " | 0.013 | 0.147 | NRR ³ | 0.010 |
| Fe | " | 7.12 | 34.23 | 0.76 | 1.24 |
| Mn | " | 0.071 | 0.265 | 0.016 | 0.016 |
| Ni | " | 0.002 | 0.006 | <0.002 | <0.002 |
| Zn | " | <0.010 | 0.029 | <0.010 | <0.010 |

¹Sampled on October 22, 2024.

²pH was measured beyond 15-minute holding time.

³No reportable data due to laboratory quality control failure.

FIGURE 1: MAP OF FIELDS AND WELLS AT THE HANOVER PARK FISCHER FARM SITE OF THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

