

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 25-09

HANOVER PARK WATER RECLAMATION PLANT

FISCHER FARM MONITORING REPORT

FOR FOURTH QUARTER 2024:

SPECIAL CONDITION 4

May 2025

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX
6001 WEST PERSHING ROAD CICERO, ILLINOIS 60804-4112

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Director of Monitoring and Research

January 28, 2025

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

Dear Sir or Madam:

Subject: Hanover Park Water Reclamation Plant – Illinois Environmental Protection Agency Permit No. 2022-SC-66896, Special Condition 4 Monitoring Report for October, November, and December 2024 – Discharge Monitoring Report (DMR)

This Discharge Monitoring Report (DMR) is to report analyses of biosolids applied to 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 4. We are currently unable to submit this report to the NetDMR system as directed in Special Condition 4, as this permit number is not yet available in the NetDMR system per communication with IEPA staff.

The attached DMR presents analytical data for liquid biosolids applied to Hanover Park WRP Fischer Farm fields during November 2024.

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. A. Desai
Dr. H. Zhang

Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, Illinois 60611-2803 (312) 751-5600

**HANOVER PARK WATER RECLAMATION PLANT
FISCHER FARM MONITORING REPORT
FOR FOURTH QUARTER 2024:
SPECIAL CONDITION 4**

By

**Benjamin Morgan
Environmental Soil Scientist**

**Albert Cox
Environmental Monitoring and Research Manager**

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to vary from a range of 10 hours as an average per response for some minor facilities, to 110 hours as an average per response for some major facilities, with a weighted average for major and minor facilities of 18 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including strategies for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

General Instructions

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "*Permittee Name/Mailing Address* (and facility name/location, if different)," "Permit Number," and "Discharge Number" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "*Monitoring Period*" covered by form where indicated.
4. Enter each "*Parameter*" as specified in monitoring requirements of permit.
5. Enter "*Sample Measurement*" data for each parameter under "*Quantity*" and "*Quality*" in units specified in permit. "*Average*" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "*Monitoring Period*"; "*Maximum*" and "*Minimum*" are normally extreme high and low measurements obtained during "*Monitoring Period*." (Note to municipals with secondary treatment requirement: Enter 30-day average of sample measurements under "*Average*," and enter maximum 7-day average of sample measurements obtained during monitoring period under "*Maximum*.")
6. Enter "*Permit Requirement*" for each parameter under "*Quantity*" and "*Quality*" as specified in permit.
7. Under "*No Ex*" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0."
8. Enter "*Frequency of Analysis*" both as "*Sample Measurement*" (actual frequency of sampling and analysis used during monitoring period) and as "*Permit Requirement*" specified in permit. (e.g., Enter "*Cont*," for continuous monitoring, "*1/7*" for one day per week, "*1/30*" for one day per month, "*1/90*" for one day per quarter, etc.)
9. Enter "*Sample Type*" both as "*Sample Measurement*" (actual sample type used during monitoring period) and as "*Permit Requirement*," (e.g., Enter "*Grab*" for individual sample, "*24HC*" for 24-hour composite, "*N/A*" for continuous monitoring, etc.)
10. Where violations of permit requirements are reported, attach a brief explanation to describe cause and corrective actions taken, and reference each violation by date.
11. If "*no discharge*" occurs during monitoring period, enter "No Discharge" across form in place of data entry.
12. Enter "*Name/Title of Principal Executive Officer*" with "*Signature of Principal Officer of Authorized Agent*," "*Telephone Number*," and "*Date*" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this *Discharge Monitoring Report (DMR)* form may be obtained from Office(s) specified in permit.

Legal Notice

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

2022-SC-66896 Special Condition 4

PERMIT NUMBER

DISCHARGE NUMBER

FACILITY Hanover Park Water Reclamation Plant
Fischer Farm Site
LOCATION 1220 Sycamore Avenue
Hanover Park, Illinois 60133

MONITORING PERIOD
FROM

| YEAR | MO | DAY |
|------|----|-----|
| 2024 | 10 | 01 |

TO


| YEAR | MO | DAY |
|------|----|-----|
| 2024 | 12 | 31 |

NOTE: Read instructions before

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION ¹ | | | | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---------------------------------------|--------------------|---------------------|---------|-------|---------------------------------------|---------|---------|-------|--------|-----------------------|-------------------|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| pH | SAMPLE | | | | 7.3 | 7.4 | 7.5 | | | 2 | 1WkC ² |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | | | 2 / 90 | NS ³ |
| % Total solids (by weight) | SAMPLE | | | | 3.23 | 3.38 | 3.52 | | | 2 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | % | | 2 / 90 | NS |
| % Volatile solids (% of total solids) | SAMPLE | | | | 66.5 | 67.3 | 68.1 | | | 2 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | % | | 2 / 90 | NS |
| Volatile acids | SAMPLE | | | | 511 | 511 | 511 | | | 1 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | mg/kg | | 2 / 90 | NS |
| Total Kjeldahl nitrogen | SAMPLE | | | | 81,793 | 91,528 | 101,264 | | | 2 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | mg/kg | | 2 / 90 | NS |
| Ammonia nitrogen | SAMPLE | | | | 34,562 | 35,157 | 35,753 | | | 2 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | mg/kg | | 2 / 90 | NS |
| Total phosphorus | SAMPLE | | | | 46,284 | 53,611 | 60,939 | | | 2 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | mg/kg | | 2 / 90 | NS |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Albert Cox
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

| TELEPHONE | | DATE | | |
|-----------|----------|------|----|-----|
| 708 | 588-4068 | 2025 | 01 | |
| AREA | NUMBER | YEAR | MO | DAY |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)¹ Analytical results for liquid biosolids applied in November 2024.

²Two composite samples of applied biosolids were collected following land application.Volatile acids data was based on one sample only.

³Sample type not specified. The permit requirement is to "analyze the sludge applied from the storage lagoons or digesters on a quarterly basis..."

NAMEMetropolitan Water Reclamation District of Greater Chicago

ADDRESS100 East Erie Street
Chicago, Illinois 60611

2022-SC-66896 Special Condition 4

PERMIT NUMBER

DISCHARGE NUMBER

FACILITYHanover Park Water Reclamation Plant
Fischer Farm Site

LOCATION1220 Sycamore Avenue
Hanover Park, Illinois 60133

MONITORING PERIOD

FROM

YEAR2024
MO10
DAY01

TO

YEAR2024
MO12
DAY31

NOTE: Read instructions before

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION ¹ | | | | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|-----------|--------------------|---------------------|---------|-------|---------------------------------------|---------|---------|-------|--------|-----------------------|-------------------|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| Cadmium | SAMPLE | | | | <1.00 | 1.02 | 1.03 | mg/kg | | 2 | 1WkC ² |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | | | 2 / 90 | NS ³ |
| Chromium | SAMPLE | | | | 28.87 | 32.55 | 36.22 | mg/kg | | 2 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | | | 2 / 90 | NS |
| Copper | SAMPLE | | | | 623 | 633 | 642 | mg/kg | | 2 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | | | 2 / 90 | NS |
| Manganese | SAMPLE | | | | 634 | 636 | 638 | mg/kg | | 2 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | | | 2 / 90 | NS |
| Nickel | SAMPLE | | | | 29.6 | 32.1 | 34.6 | mg/kg | | 2 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | | | 2 / 90 | NS |
| Lead | SAMPLE | | | | 14.8 | 16.5 | 18.1 | mg/kg | | 2 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | | | 2 / 90 | NS |
| Zinc | SAMPLE | | | | 768 | 781 | 794 | mg/kg | | 2 | 1WkC |
| | PERMIT REQUIREMENT | | | | N/A | N/A | N/A | | | 2 / 90 | NS |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Albert Cox

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

708 588-4068

AREA NUMBER

TELEPHONE

DATE

2025 01

YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)¹ Analytical results for liquid biosolids applied in November 8-12, 2024.

² Two composite samples of applied biosolids were collected following land application.

³ Sample type not specified. The permit requirement is to "analyze the sludge applied from the storage lagoons or digesters on a quarterly basis..."