

West Des Moines, IA

PROJECT: Scott Co, FY24 Env Comp, IA 27223210.24 DATE: 9/6/2024
SUBJECT: Scott County Sanitary Landfill - 82-SDP-03-77C - 2024 Spring Sampling Notification TRANSMITTAL ID: 00008
PURPOSE: For Record VIA: Info Exchange

FROM

| NAME | COMPANY | EMAIL | PHONE |
|--|---------------|------------------------------|-----------------|
| Sean Marczewski West Des Moines, IA | SCS Engineers | SMarczewski@scsengineers.com | +1-515-631-6152 |

TO

| NAME | COMPANY | EMAIL | PHONE |
|--|----------------|--------------------------|--------------|
| Mike Smith 502 East 9th Street Des Moines IA 50319-0034 United States | Iowa, State of | mike.smith@dnr.iowa.gov | 515-725-8200 |
| Becky Jolly | | becky.jolly@dnr.iowa.gov | |

REMARKS: Good afternoon -

SCS Engineers, on behalf of the Waste Commission of Scott County, is submitting the attached 2024 Spring Sampling Notification for the Scott County Landfill. If you have any questions or comments regarding this report, please contact Nathan Ohrt at 319-331-9613 or nohrt@scsengineers.com.

Thanks,

Sean A. Marczewski
Project Professional
SCS Engineers
1690 All-State Court, Suite 100
West Des Moines, Iowa 50265
712-661-9682 (C)
515-631-6152 (O)
smarczewski@scsengineers.com

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Transmittal

DATE: 9/6/2024
TRANSMITTAL ID: 00008

DESCRIPTION OF CONTENTS

| QTY | DATED | TITLE | NOTES |
|-----|----------|---|-------|
| 1 | 9/6/2024 | Scott County Landfill - 82-SDP-03-77C - 2024 Spring Sampling Notification.pdf | |

COPIES:

Brian Seals (Waste Commission of Scott County)
Bryce Stalcup (Waste Commission of Scott County)
Nathan Ohrt (SCS Engineers)
Tim Buelow (SCS Engineers)
Sean Marczewski (SCS Engineers)

September 6, 2024
File No. 27223210.24

Mr. Mike Smith, P.E.
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, Iowa 50321

Subject: 2024 Spring Sampling Notification
Scott County Sanitary Landfill
Permit No. 82-SDP-03-77C

Dear Mike:

SCS Engineers, on behalf of the Waste Commission of Scott County, is submitting herewith a summary of the 1st 2024 semi-annual sampling event for the Scott County Sanitary Landfill (Landfill) in general accordance with Iowa Administrative Code (IAC) 567-113.10(6).

Groundwater sampling was completed on June 5-6, 2024. The associated field sheets were completed. The samples were shipped and received at the laboratory with acceptable preservation requirements and appropriate temperatures. Statistical evaluation was performed using analytical data received from the laboratory. The field sheets, laboratory analytical reports, data validation documentation, and output from the statistical evaluation will be included in the 2024 Annual Water Quality Report.

Statistical evaluation results for the 1st 2024 semi-annual sampling event are summarized in Table 1.

| Table 1. 1st 2024 Statistical Evaluation Summary | | | |
|--|---------------------------|--|-----------------------|
| Monitoring Point | Monitoring Program | SSIs June 2024 | SSLs June 2024 |
| MW-32 | Background | Background for impact delineation. | |
| OP-17 | Pre-Corrective Action | Arsenic, Barium, Cobalt, Copper, Nickel, 1,2-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Chlorobenzene, Chloromethane | Arsenic, Cobalt |
| OP-18 | Pre-Corrective Action | Arsenic, Beryllium, Cobalt, Copper, Nickel, Zinc, 1,4-Dichlorobenzene, Benzene, Chlorobenzene, | Arsenic, Cobalt |
| MW-17 | Assessment | Arsenic, Barium, 1,1-Dichloroethane, cis-1,2-Dichloroethene | None |
| MW-19 | Pre-Corrective Action | Arsenic, Cobalt, cis-1,2-Dichloroethene, Methoxychlor | Arsenic, Cobalt |
| MW-20 | Assessment | Barium | None |
| MW-21 | Assessment | Zinc | None |



| Table 1. 1st 2024 Statistical Evaluation Summary | | | |
|--|---------------------------|---|---------------------------|
| Monitoring Point | Monitoring Program | SSIs June 2024 | SSLs June 2024 |
| MW-22 | Assessment | Not sampled (insufficient water) | None |
| MW-27 | Pre-Corrective Action | Cobalt, Nickel, 1,1-Dichloroethane, Chlorobenzene, cis-1,2-Dichloroethene | Cobalt |
| MW-28 | Assessment | None | None |
| MW-30 | Assessment | None | None |

There were 34 monitoring well/constituent pairs with indicated statistically significant increases (SSIs) above background. As indicated SSIs are not retested for assessment and pre-corrective action monitoring wells, these SSIs are not confirmed. The statistically significant levels (SSLs) above the groundwater protection standards (GWPSs) shown in Table 1 were previously reported.

Methoxychlor had an initial detection of 0.19 µg/L in monitoring well MW-19. The detection had multiple laboratory qualifiers: “B” indicates the compound was found in the blank and sample; “*+” indicates the laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits, high biased; and “F1” indicates the matrix spike and/or matrix spike duplicate recovery exceeds control limits. These multiple qualifiers indicate the detection may be suspect. In addition, methoxychlor had never been detected at the facility and the measured concentration was less than 0.5% of the GWPS of 40 µg/L. Therefore, a separate retest will not be performed to verify the detection. Methoxychlor will be sampled in monitoring well MW-19 during the 2nd 2024 semi-annual sampling event to confirm or not confirm the presence of the compound.

No changes to the Landfill’s monitoring program are recommended based on the results from the 1st 2024 semi-annual sampling event.

Services were performed in general accordance with IAC 567-113.10 and the current requirements for implementation of the Hydrologic Monitoring System Plan (HMSP) for the Landfill. This correspondence constitutes the 2024 Spring Sampling Notification. A site map is included in Figure 1.

If you have any questions regarding this notification, please contact Nathan Ohrt at (319) 331-9613.

Sincerely,



Nathan Ohrt
 Senior Project Professional
 SCS Engineers



Timothy C. Buelow, P.E.
 Senior Project Advisor
 SCS Engineers

NPO/TCB

Copies: Bryce Stalcup, Waste Commission of Scott County
 Brian Seals, Waste Commission of Scott County



Site Map

Legend

- | | | | | | |
|--|---------------------------|--|-----------------------------------|--|-------------------------------|
| | Monitoring Well | | Gas Monitoring Point | | Interpolated Waste Boundary |
| | Underdrain Location | | Approximate Future Waste Boundary | | Approximate Property Boundary |
| | Leachate Monitoring Point | | Located Waste Boundary | | Approximate Waste Boundary |
| | Gas Extraction Well | | | | |

Waste Commission of
Scott County Landfill
Davenport, Iowa
Project No: 27223210.24
Drawing Date: August 2024

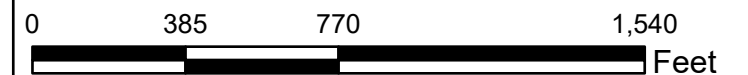
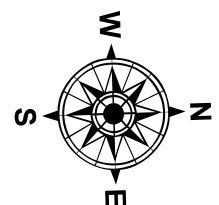


Figure 1