

West Des Moines, IA

PROJECT: Muscatine Co, FY24 Env Comp, IA 27223255.24 DATE: 12/3/2024

SUBJECT: Muscatine County Sanitary Landfill - 70-SDP-02-75P - 2024 Semi-Annual Sampling Notification TRANSMITTAL ID: 00003

PURPOSE: For your approval 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

REMARKS: Mike -

Please find for your download the Muscatine County Sanitary Landfill 2024 Semi-Annual Sampling Notification. Let us know if you have any questions or comments.

Thanks,

Sean A. Marczewski
Project Professional
SCS Engineers
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QTY	DATED	TITLE	NOTES
1	12/3/2024	Muscatine County Sanitary Landfill - 70-SDP-02-75P - 2024 Semi-Annual Sampling Notification 12.3.2024.pdf	

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Transmittal

DATE: 12/3/2024
TRANSMITTAL ID: 00003

Becky Jolly
David Popp
Tim Buelow
Sean Marczewski

(Muscatine County Solid Waste Mgmt. Agency)
(SCS Engineers)
(SCS Engineers)

December 3, 2024
 File No. 27223255.24

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

Subject: 2024 Semi-Annual Sampling Notification
 Muscatine County Sanitary Landfill
 Permit No. 70-SDP-02-75P

Dear Mike:

SCS Engineers, on behalf of the Muscatine County Solid Waste Management Agency, is submitting herewith a summary of the 1st 2024 semi-annual groundwater sampling event for the Muscatine County Sanitary Landfill (Landfill) in general accordance with the Iowa Administrative Code (IAC) 567-113.10(5) and 113.10(6).

Groundwater sampling was completed June 24-26, 2024, and the associated field sheets were completed. The samples were shipped and received at the laboratory with generally acceptable preservation requirements and at appropriate temperatures. Samples for monitoring wells MW-23 and MW-38 had insufficient preservation and were preserved to the appropriate pH by the laboratory. Statistical evaluation was performed using analytical data received from the laboratory. The field sheets, laboratory analytical reports, data validation documentation, and statistical output from the statistical evaluation will be included in the 2024 Annual Water Quality Report.

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

Table 1
1st 2024 Statistical Evaluation Summary

Monitoring Point	Monitoring Program	Indicated SSLs	SSLs
Water Table			
MW-29	Background	Background for impact delineation.	
MW-50BG	Background	Background for impact delineation.	
MW-2	Assessment	Cobalt	None
MW-9	Assessment	Barium, Cadmium, Cobalt, Nickel, Chlorobenzene	None
MW-10A	Assessment	Barium	None
MW-20	Assessment	Not applicable (dry)	None
MW-21	Assessment	Barium, Cadmium	None
MW-22	Assessment	Cadmium, Benzene	None
MW-24	Assessment	Copper	None
MW-25	Assessment	None	None
MW-26	Assessment/AZPOC	None	None



Monitoring Point	Monitoring Program	Indicated SSIs	SSLs
MW-4	Source/Corrective Action	Annually evaluated for trending.	
MW-12R	Source/Corrective Action	Annually evaluated for trending.	
MW-23	Source/Corrective Action	Annually evaluated for trending.	
MW-36	AZPOC	Background collection.	
MW-37	AZPOC	Background collection.	
MW-38	Source/Corrective Action	Annually evaluated for trending.	
MW-39	Source/Corrective Action	Annually evaluated for trending.	
Bedrock			
MW-49BG	Background	Background for impact delineation.	
MW-11	Assessment	None	None
MW-13	Source/Corrective Action	Annually evaluated for trending.	


There were twelve well/detected constituent pairs with indicated statistically significant increases (SSIs) above background. The monitoring wells in assessment or corrective action monitoring do not require a retest; therefore, the SSIs were not confirmed.

No exceedances of the groundwater protection standards (GWPSs) at statistically significant levels (SSLs) for the monitoring wells in the assessment or corrective action monitoring programs were identified during the 1st 2024 semi-annual statistical evaluation.

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 HMSP for the site. This correspondence constitutes the 2024 Semi-Annual Sampling Notification.

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

Sincerely,


FOR: NATHAN OHRT

Nathan Ohrt
 Senior Project Professional
 SCS Engineers



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

NPO/TCB

Copies: Mr. Dave Popp, City of Muscatine