



June 22, 2021

Mr. Mick Leat  
Iowa Department of Natural Resources  
Land Quality Bureau  
Wallace State Office Building  
502 East 9<sup>th</sup> Street  
Des Moines, Iowa 50319-0034

**Re: 2021 Spring Sampling Notification  
South MSWLF Unit  
Clinton County Area Sanitary Landfill - East  
Permit No. 23-SDP-01-74P  
Project No. CCASW 21001**

Dear Mick:

Evora Consulting, on behalf of the Clinton County Area Solid Waste Agency (Agency), has completed the following items for the South municipal solid waste landfill unit (South MSWLF unit) at the Clinton County Area Sanitary Landfill – East associated with the 1<sup>st</sup> 2021 semi-annual sampling event that occurred May 18-21, 2021:

- Groundwater sampling
- Statistical evaluation of groundwater data
- Field sampling forms
- Compilation of laboratory analytical data

The information listed above will be submitted and discussed in the 2021 Annual Water Quality Report. Pursuant to Iowa Administrative Code (IAC) 567-113.10(5) and 113.10(6), this correspondence notifies the Iowa Department of Natural Resources of the results of the 1<sup>st</sup> 2021 semi-annual statistical evaluation.

The Selection of Remedy and corrective action groundwater monitoring program (CAMP) submitted April 27, 2020 (Doc #97615) and the CAMP amendment submitted August 17, 2020 (Doc #98264) were approved in Permit Revision #10, issued September 10, 2020 (Doc #98417).

Table 1 summarizes the statistically significant increases above background (SSIs) and exceedances of the groundwater protection standards (GWPSs) at statistically significant levels (SSLs) for the Hydrologic Monitoring System Plan (HMSP) monitoring points identified during the 1<sup>st</sup> 2021 semi-annual statistical evaluation.

**Table 1**  
**1<sup>st</sup> 2021 Statistical Evaluation Summary**

Monitoring Point	Monitoring Program	SSIs May 2021	SSLs May 2021
MW-06-7R	Background	Background for detection monitoring.	
MW-05-8R	Detection	None	-
MW-90-11	Assessment	-	None
MW-19	Assessment	-	None
MW-20	Assessment	-	None
MW-21	Assessment	-	None
MW-24	Corrective Action	-	None
MW-25R	Detection	Insufficient samples for analysis.	
MW-32	Assessment	-	None
MW-33	Assessment	-	None
UD-2	Detection	Insufficient samples for analysis.	
Bedrock Wells			
MW-39	Detection	None	-
MW-40	Detection	None	-
MW-41	Detection	None	-
MW-42	Detection	None	-
MW-43BG	Background	Background for detection monitoring.	

For monitoring points in the corrective action monitoring program, if the upper confidence limit or any part of the upper confidence band, as appropriate, exceeds the GWPS, the constituent-monitoring point pair would not satisfy the requirement to complete corrective action as specified in IAC 567-113.10(9)"e"(2), which requires three consecutive years of the upper confidence limit or upper confidence band, as appropriate, below the GWPS. The progress of constituent-monitoring point pairs toward satisfying the requirements are shown in Table 2.

**Table 2**  
**Progress Toward Remedy Completeness**

Monitoring Point	Historical or Current SSL Above GWPS	Upper Confidence Limit Below GWPS					
		1st Year		2nd Year		3rd Year	
MW-24	Vinyl Chloride	NA	NA	NA	NA	NA	NA

*NA indicates that the constituent-monitoring point dataset has not satisfied the statistical requirements of IAC 567-113.10(9)"e"(2), which is identified by the entire confidence interval or confidence band, as appropriate, being below the GWPS.*

Services were performed in general accordance with IAC 567-113.10 and the current requirements for implementation of the Hydrologic Monitoring System Plan for the site. This correspondence constitutes the 2021 Spring Sampling Notification.



**EVORA**  
CONSULTING

If you have any questions regarding this notification, please contact our office at (515) 256-8814.

Sincerely,  
Evora Consulting

Nathan Ohrt  
*Senior Groundwater Specialist*

Lauren P. Norland, P.E.  
*Project Engineer*

Copies: Addressee  
Mr. Brad Seward, Clinton County Area Solid Waste Agency  
Electronic File

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