

July 9, 2025
File No. 27223157.25

Mr. Mike Smith, P.E.
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue, Suite 200
Des Moines, Iowa 50321

Subject: 2025 Spring Sampling Notification
Ottumwa-Wapello County Landfill
Permit No. 90-SDP-01-75P

Dear Mike:

SCS Engineers, on behalf of the Ottumwa–Wapello County Solid Waste Commission, is submitting herewith a summary of the 1st 2025 semi-annual groundwater sampling event for the Ottumwa-Wapello County Landfill (Landfill) in general accordance with the Iowa Administrative Code (IAC) 567-113.10(5) and 113.10(6).

Groundwater sampling was completed on April 22-24, 2025, and the associated field sheets were completed. The samples were shipped and received at the laboratory with acceptable preservation requirements and at 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 2025 Annual Water Quality Report.

Statistical evaluation results for the Landfill's 1st 2025 semi-annual sampling event are summarized in Table 1.

Table 1
1st 2025 Statistical Evaluation Summary

Monitoring Point	Monitoring Program	Indicated Interwell SSIs	Indicated Intrawell SSIs	SSLs*
MW-53	Background	Background for detection monitoring program.		
91-MW-14	Detection	None	NA	NA
93-MW-32	Assessment	Arsenic, Barium, Cadmium, Nickel	NA	None
MW-39R	AMD Detection	Arsenic	None	None
MW-40	AMD Detection	Arsenic, Cobalt, Nickel, Benzene, cis-1,2-Dichloroethene	None	None
04-MW-56	AMD Detection	Arsenic, Nickel	None	None
MW-58	AMD Detection	None	Thallium	None
MW-59	AMD Detection	Arsenic, Barium	None	None
MW-62	Assessment	None	NA	None



Monitoring Point	Monitoring Program	Indicated Interwell SSIs	Indicated Intrawell SSIs	SSLs*
MW-63R	AMD Detection	Cadmium, Zinc	None	None
MW-64	AMD Detection	Barium	None	None
MW-65	AMD Detection	Arsenic, Barium	None	None
MW-81	Assessment (AZPOC)	Barium	None	None
GU-6	Detection	NA	None	NA
GU-7	Detection	No sample (insufficient water)	No sample (insufficient water)	NA
93-MW-31R	Source	Annually evaluated for trending.		
MW-61R	Source	Annually evaluated for trending.		
MW-73	Source	Annually evaluated for trending.		
MW-79	Source	Annually evaluated for trending.		

* - SSLs are used for evaluation of the AMD Detection wells for organic constituents and sulfide only.

NA - Not applicable to the monitoring program.

AMD - Acid Mine Drainage

There were 21 well/detected constituent pairs with indicated statistically significant increases (SSIs) above background (combined interwell and intrawell statistical evaluations). The monitoring wells in assessment monitoring and "AMD Detection" 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 monitoring program or for organic constituents and sulfide in the AMD Detection monitoring wells were identified during the 1st 2025 semi-annual statistical evaluation.

No changes to the Landfill's monitoring program are recommended based on the results from the 1st 2025 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 Landfill.

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.
VP, Senior Project Advisor
SCS Engineers

NPO/TCB

Copies: Mr. Philip Rath, City of Ottumwa
Ms. Lori Creech, Ottumwa-Wapello County Landfill