October 22, 2025
File No. 27223205.25

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

Subject: 2025 Semi-Annual Sampling Notification
Sioux City Sanitary Landfill
Permit No. 97-SDP-03-81C

Dear Mike:

SCS Engineers, on behalf of the City of Sioux City, is submitting herewith a summary of the 1st 2025 semi-annual groundwater sampling event for the Sioux City Sanitary Landfill (Landfill) in general accordance with Iowa Administrative Code (IAC) 567-113.10(5) and 113.10(6).

Groundwater sampling was completed June 16-18, 2025. 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 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 Well	Monitoring Program	Control Limit Exceedance	SSL
MW-2R	Assessment	No sample (well went dry during purge)	None
MW-3R	Corrective Action	Barium, Cobalt, Nickel, 1,1-Dichloroethane, Benzene, Chloroethane, cis-1,2-Dichloroethene	Cobalt*
MW-4R3	Corrective Action	Barium, Cobalt, Nickel, 1,1-Dichloroethane, Benzene, cis-1,2-Dichloroethene, Tetrachloroethene, trans-1,2-Dichloroethene, Trichloroethene, Vinyl Chloride	Cobalt, Trichloroethene*, Vinyl Chloride
MW-9	Corrective Action	No sample (insufficient volume)	Cobalt
MW-10	Assessment	No sample (well went dry during purge)	None
MW-11	Assessment	Cobalt	None

Monitoring Well	Monitoring Program	Control Limit Exceedance	SSL
MW-12	Assessment	No sample (well went dry during sample)	None

* - Indicates the lower control limit is below the GWPS.

There were eighteen indicated well/detected constituent pairs with control limit exceedances. As the monitoring wells are in the assessment or corrective action monitoring programs, the control limit exceedances were not confirmed. The exceedances of the groundwater protection standards (GWPSs) at statistically significant levels (SSLs) in monitoring wells MW-3R, MW-4R3, and MW-9 were previously reported.

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 satisfaction of the requirements is summarized in Table 2.

Table 2
Progress Towards Remedy Completion

Monitoring Well	SSL Above GWPS	Progress Towards Completion					
		1st Year		2nd Year		3rd Year	
MW-3R	Cobalt	NA	NA	NA	NA	NA	NA
MW-4R3	Cobalt	NA	NA	NA	NA	NA	NA
	Trichloroethene	NA	NA	NA	NA	NA	NA
	Vinyl Chloride	NA	NA	NA	NA	NA	NA
MW-9	Cobalt	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 any portion of the upper 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 Landfill. This correspondence constitutes the 2025 Semi-Annual Sampling Notification.

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

Sincerely,

Nathan Ohrt
Senior Project Professional
SCS Engineers

Sean Marczewski
Senior Project Professional
SCS Engineers

NPO/SAM

Copies: Ms. Arah Montagne, City of Sioux City