

August 7, 2026
File No. 27224512.26

Dr. Khalid Al Gharrawi
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue, Suite 200
Des Moines, Iowa 50321

Subject: 2026 Semi-Annual Sampling Notification
Southeast Iowa Multi-County (SEMCO) Sanitary Landfill
Permit No. 54-SDP-01-75P

Dear Khalid:

SCS Engineers, on behalf of the Southeast Iowa Multi-County Solid Waste Agency (SEMCO), is submitting herewith a summary of the 1st 2026 semi-annual groundwater sampling event for the SEMCO Sanitary Landfill (Landfill) in general accordance with the Iowa Administrative Code (IAC) 567-113.10(5) and 113.10(6).

During the 2nd 2025 statistical evaluation, statistically significant increases (SSIs) above background were indicated for arsenic in monitoring wells MW-23 and MW-34. Retesting occurred in March 2026. The arsenic concentration in MW-23 was below the prediction limit, and the arsenic concentration in MW-34 was a J flag, so the indicated SSIs were not confirmed.

Groundwater sampling was completed on May 19-20, 2026, and the associated field sheets were completed. The samples were shipped and received at the laboratory in acceptable condition, meeting the preservation requirements, and were maintained at the appropriate temperature. 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 2026 Annual Water Quality Report.

Statistical evaluation results for the Landfill 1st 2026 semi-annual sampling event are summarized in Table 1.

Table 1
1st 2026 Statistical Evaluation Summary

Monitoring Point	Monitoring Program	Indicated SSIs	SSLs
MW-19	Background	Background for detection monitoring program.	
MW-5	Assessment	Arsenic, Copper, Nickel	None
MW-7	Assessment	Arsenic	None
MW-9R	Assessment	No sample (well obstructed)	None
MW-13	Detection	None	-
MW-14	Assessment	No sample (insufficient water)	None
MW-20	Detection	Arsenic*	-
MW-21	Detection	None	-



Monitoring Point	Monitoring Program	Indicated SSIs	SSLs
MW-23	Detection	Arsenic	-
MW-25	Assessment	Arsenic, Benzene, cis-1,2-Dichloroethene	None
MW-26	Assessment	None	None
MW-27	Detection	None	-
MW-28	Assessment	Copper, Nickel	None
MW-29	Assessment	No sample (dry)	None
MW-34	Detection	None	-
UD-2	Detection	No sample (dry)	-
UD-3	Detection	No sample (dry)	-

* - SSI indicated using interwell methods but not by intrawell methods.

There were eleven well/detected constituent pairs with statistically significant increases (SSIs) above background indicated. The wells in the assessment monitoring program do not require retesting; therefore, the SSIs in monitoring wells MW-5, MW-7, MW-25, and MW-28 were not confirmed. A statistically significant increase (SSI) above background for arsenic was indicated in monitoring well MW-23 and will be retested before the next routine semi-annual sampling event. The indicated SSI for arsenic in MW-20 is not confirmed due to an alternative source evaluation approved in correspondence dated July 15, 2024 (Doc #110470); in addition, an SSI for arsenic was not indicated in monitoring well MW-20 using intrawell statistical methods.

Monitoring well MW-14 had insufficient water to produce a sample and monitoring points MW-29, UD-2, and UD-3 were dry. Monitoring well MW-9R was obstructed above the water level and did not produce a sample.

No exceedances of the groundwater protection standards (GWPSs) at statistically significant levels (SSLs) were identified.

No changes to the Landfill's monitoring program are recommended based on the results from the 1st 2026 semi-annual sampling event. Noted maintenance required for monitoring wells MW-9R (obstruction) and MW-23 (stuck tubing) will be evaluated and corrected during the next 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



Sean Marczewski
Senior Project Professional
SCS Engineers

NPO/SAM

Copies: Mr. Bill Sloop, SEMCO Sanitary Landfill