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June 26, 2026

Michael W. Smith, PE
Iowa Department of Natural Resources
6200 Park Avenue
Suite 200
Des Moines, IA 50321

RE: Spring 2026 Statistical Notifications
Winneshiek County Area Solid Waste Agency
201 West Main Street, Decorah, IA 52101
Permit No. 57-SDP-01-74P

Dear Michael W. Smith, PE:

On behalf of the Winneshiek County Area Solid Waste Agency (Agency), Foth Infrastructure & Environment, LLC (Foth) is submitting the notification and placement of notice in the operating record for the Appendix II constituents detected, statistically significant increases (SSIs) over background, and statistically significant levels (SSLs) over the groundwater protection standard (GWPS) for the Spring 2026 semiannual statistical evaluation. In accordance with Special Provision X.4.d and e, the field sampling forms, laboratory reports, and statistical reports will be submitted with the 2026 Annual Water Quality Report (AWQR).

1. Report Priority

No actions or activities are on hold due to the completion of Iowa Department of Natural Resources (IDNR) review or comment. There are no changes to the Hydrologic Monitoring System Plan (HMSP) requested in this report.

The IDNR noted in their letter dated May 28, 2026 (IDNR, 2026a) that the use of the measured level of arsenic at 0.22 milligrams per liter (mg/L) from monitoring well MW-37A for background should be re-evaluated. At this time, it is not recommended to treat the October 2025 concentration at MW-37A as an outlier or remove it from the dataset. The well has limited background data; arsenic, barium, chromium, cobalt, and nickel showed a noticeable increase in October 2025; and there is no correlation with total suspended solids (TSS) (11 mg/L) or volatile organic compound (VOC) detections that would indicate a need for removal. With the current data set, there is insufficient evidence to conclude that the October 2025 metal results at MW-37A are not representative. Therefore, in the response to IDNR (IDNR, 2026b), it was recommended to collect additional background data and re-evaluate the arsenic background value during the Fall 2026 statistical evaluation, when more information will be available to determine whether the October 2025 result reflects natural or seasonal variability.

2. Summary of the Monitoring Networks and Sampling Schedules

A summary of the groundwater monitoring network and the status of the sampling schedules is outlined in Table 1 of Attachment 1. The groundwater monitoring locations are depicted in Figure 1 of Attachment 2. Several wells with recharge rates less than 100 milliliters per minute (mL/min) switched to no-purge sampling techniques to facilitate sample collection. This modification is better suited to site conditions and was implemented to obtain the most representative samples possible. Additional details will be provided on the field sampling forms in Appendix A of the 2026 AWQR.

3. Appendix II Detections

The Appendix II constituents detected in the groundwater monitoring wells under the corrective action monitoring program during the April 2026 sampling event are presented in Tables 2 and 3 of Attachment 1.

The April 2026 TSS concentration at deep groundwater background monitoring location MW-19R was slightly elevated (21.1 mg/L). Arsenic, barium, chromium, cobalt, copper, lead, nickel, and vanadium were detected above the method detection limit (MDL) at MW-19R in April 2026. The April 2026 arsenic, chromium, cobalt, copper, lead, nickel, and vanadium concentrations are higher than the range of historic concentrations. Therefore, the April 2026 arsenic, chromium, cobalt, copper, lead, nickel, and vanadium results at MW-19R were removed from background and will be crossed out in Table 15 of the 2026 AWQR.

4. Detection Monitoring Statistically Significant Increases

The detection monitoring SSI summary is presented in Table 4 of Attachment 1. No SSIs were identified at surface water monitoring locations SW-2 and SW-5, and shallow groundwater monitoring locations MW-2R, MW-3, MW-4B, MW-25A, MW-34A, MW-38A, MW-41A, and MW-101.

Prediction limit exceedances or double quantification rule (DQR) detections were identified for lead and zinc at shallow groundwater detection monitoring well MW-45A, and for cobalt, lead, nickel, and zinc at deep groundwater detection monitoring well MW-22. Under the retesting plan, an SSI is not declared until a subsequent result confirms the prediction limit exceedance or DQR detection. Therefore, resamples will be collected for lead and zinc at MW-45A, and for cobalt, lead, nickel, and zinc at MW-22, prior to the Fall 2026 sampling event. The future monitoring schedules are provided in Table 1 of Attachment 1.

5. Groundwater Assessment, Corrective Action, and Delineation Monitoring SSIs and SSLs

Summaries of the assessment, corrective action, and delineation monitoring SSIs and SSLs are provided in Tables 5 and 6 of Attachment 1. The future monitoring schedules are provided in Table 1 of Attachment 1.

Notably, compliance with the GWPS remained for arsenic in MW-33A during the Spring 2026 statistical evaluation. In accordance with 567 IAC 113.10(9)e(2), arsenic in MW-33A will return to an assessment constituent in Fall 2028, as long as concentrations remain below the GWPS during interim statistical evaluations. In addition, since arsenic is the only corrective action

constituent at MW-33A, MW-33A will return to assessment monitoring when arsenic returns to an assessment constituent. As noted in the Report Priority, the GWPS for arsenic is taken as background, and arsenic in background will be re-evaluated during the Fall 2026 statistical evaluation. The re-evaluation of arsenic in background may influence the future status of arsenic at MW-33A.

6. References

Foth Infrastructure and Environment (Foth), 2025. *Letter to Michael W. Smith, P.E. "Remedial Selection Report, Winneshiek County Sanitary Landfill, Permit No. 96-SDP-01-74P."* December 11. [Doc. No. 115182].

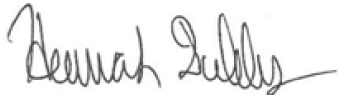
Iowa Department of Natural Resources (Michael W. Smith, P.E.), Letter to TJ Schissel, 28 May 2026a. *"Winneshiek County Sanitary Landfill, Permit No. 96-SDP-01-74, 2025 Annual Water Quality Report (Document 116702)."* [Doc. No. 117227].

Iowa Department of Natural Resources (Michael W. Smith, P.E.), Email to TJ Schissel, 29 May 2026b. *"Winneshiek AWQR."* [Doc. No. 117230].

Thank you for your consideration of this matter. Please contact us at our numbers listed below if you have any questions or need additional information.

Sincerely,

Foth Infrastructure & Environment, LLC



Hannah Dubbs
Project Environmental Scientist
(319) 297-2055



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cc: TJ Schissel, Winneshiek County Area Solid Waste Agency
IDNR Field Office #1

Enclosures

Attachment 1: Tables
Attachment 2: Figure

Attachment 1
Tables

Table 1
Monitoring Program Implementation Schedule
Spring 2026 Statistical Notifications
Winneshiek County Area Solid Waste Agency
Permit No. 96-SDP-01-74P

Monitoring Well	Monitoring Program	Sampling Date and Constituents ^(1,2)	Upcoming Sampling Dates and Constituents ^(1,2)			Full Appendix II Sample Dates	
		Apr. 2026	Summer 2026	Fall 2026	Spring 2027	Previously Collected	Next Event
Surface Water Monitoring Locations							
Downstream Monitoring Locations							
SW-2	Detection	Cobalt, TSS		Cobalt, TSS	Cobalt, TSS	N/A	N/A
SW-5	Detection	Cobalt, TSS		Cobalt, TSS	Cobalt, TSS	N/A	N/A
Upstream Monitoring Location							
SW-1	Background	Cobalt, TSS		Cobalt, TSS	Cobalt, TSS	N/A	N/A
Shallow Groundwater Monitoring Locations							
Groundwater Underdrain Monitoring Locations							
GU-1	Detection	Dry ⁽³⁾		Appendix I, TSS	Appendix I, TSS	N/A	N/A
GU-2	Detection	Dry ⁽³⁾		Appendix I, TSS	Appendix I, TSS	N/A	N/A
Downgradient Monitoring Locations							
MW-2R	Detection	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	N/A	N/A
MW-3	Detection	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	N/A	N/A
MW-4	Assessment	Appendix II, TSS		Appendix II, TSS	Appendix II, TSS	Jun. 2014, Nov. 2014, Dec. 2014, May 2015, Sep. 2015, Nov. 2016, Nov. 2017, Jun. 2023	Spring 2028
MW-4B	Detection	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Oct. 2014, Dec. 2014, May 2015, Jul. 2015, Sep. 2015, Dec. 2015, Nov. 2016, Nov. 2017	N/A
MW-7A	Assessment	Appendix II, TSS		Appendix II, TSS	Appendix II, TSS	Jun. 2024, Oct. 2025	Fall 2030
MW-24A	Assessment	Appendix II, TSS		Appendix II, TSS	Appendix II, TSS	Jun. 2020, Jun. 2024	Spring 2029
MW-25A	Detection	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	N/A	N/A
MW-29A	Corrective Action	Appendix II, TSS		Appendix II, TSS	Full Appendix II, TSS	Nov. 2020, May 2021, Mar. 2022	Spring 2027
MW-31A	Corrective Action	Appendix II, TSS		Appendix II, TSS	Full Appendix II, TSS	Nov. 2020, May 2021, Mar. 2022	Spring 2027
MW-33A	Corrective Action	Appendix II, TSS		Appendix II, TSS	Appendix II, TSS	Sep. 2021, Sep. 2022	Fall 2027
MW-34A	Detection	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	N/A	N/A
MW-38A	Detection	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	N/A	N/A
MW-40A	Assessment	Appendix II, TSS		Appendix II, TSS	Appendix II, TSS	Nov. 2023, Jun. 2024	Spring 2029
MW-41A	Detection	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	N/A	N/A
MW-45A	Detection	Appendix I, TSS	Lead, Zinc ⁽⁴⁾	Appendix I, TSS	Appendix I, TSS	N/A	N/A
MW-46A	Assessment	Appendix II, TSS		Full Appendix II, TSS	Appendix II, TSS	Oct. 2025	Fall 2026
MW-101	Detection	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	N/A	N/A

Table 1
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Spring 2026 Statistical Notifications
Winneshiek County Area Solid Waste Agency
Permit No. 96-SDP-01-74P

Monitoring Well	Monitoring Program	Sampling Date and Constituents ^(1,2)	Upcoming Sampling Dates and Constituents ^(1,2)			Full Appendix II Sample Dates	
		Apr. 2026	Summer 2026	Fall 2026	Spring 2027	Previously Collected	Next Event
Shallow Groundwater Monitoring Locations Continued							
Delineation Monitoring Locations							
MW-39A	Delineation	Cobalt, TSS		Cobalt, TSS	Cobalt, TSS	N/A	N/A
MW-42A	Delineation	Cobalt, TSS		Cobalt, TSS	Cobalt, TSS	Jun. 2024, Jun. 2025	N/A
MW-43A	Delineation	Cobalt, TSS		Cobalt, TSS	Cobalt, TSS	Jul. 2024, Jun. 2025	N/A
MW-44A	Delineation	Cobalt, TSS		Cobalt, TSS	Cobalt, TSS	Jun. 2024, Jun. 2025	N/A
Background Monitoring Locations							
MW-1	Background	Appendix II, TSS		Full Appendix II, TSS	Appendix II, TSS	Jun. 2014, Nov. 2014, Dec. 2014, May 2015, Sep. 2015, Dec. 2015, Apr. 2016, Nov. 2016	Fall 2026
MW-37A	Background	Appendix II, TSS		Full Appendix II, TSS	Appendix II, TSS	N/A	Fall 2026
Deep Groundwater Monitoring Locations							
Downgradient Monitoring Locations							
MW-11	Assessment	Appendix II, TSS		Appendix II, TSS	Appendix II, TSS	Jun. 2023, Jul. 2024	Spring 2029
MW-22	Detection	Appendix I, TSS	Cobalt, Lead, Nickel, Zinc ⁽⁴⁾	Appendix I, TSS	Appendix I, TSS	N/A	N/A
MW-35	Corrective Action	Full Appendix II, TSS		Appendix II, TSS	Appendix II, TSS	Nov. 2020, Jun. 2021, Apr. 2026	Spring 2031
Background Monitoring Locations							
MW-18	Background	Full Appendix II, TSS		Appendix II, TSS	Appendix II, TSS	Apr. 2026	Spring 2031
MW-19R	Background	Full Appendix II, TSS		Appendix II, TSS	Appendix II, TSS	Apr. 2026	Spring 2031

Comments:

N/A = not applicable

⁽¹⁾ Appendix II locations were sampled for the Appendix I and detected Appendix II constituents in Apr. 2026, and will be sampled for the Appendix I and detected Appendix II constituents in Fall 2026 and Spring 2027, unless otherwise noted below. Surface water monitoring locations and delineation monitoring locations were analyzed for cobalt and total suspended solids (TSS) in Apr. 2026, and will be sampled for cobalt and TSS in Fall 2026 and Spring 2027, in accordance with the approved *Remedial Selection Report* (Foth, 2025). In accordance with the approved *Remedial Selection Report* (Foth, 2025), the next biennial geochemical monitoring event for the corrective action, delineation, and background monitoring locations will occur in Fall 2027.

⁽²⁾ In accordance with Permit Special Provision X.4.b, resampling for the full Appendix II list at assessment, corrective action, and background monitoring wells is conducted every five years. MW-35 was sampled for the full Appendix II list in Apr. 2026 in accordance with Special Provision X.4.b. While not required for compliance reasons, deep background monitoring locations were also sampled for the full Appendix II list in Apr. 2026. In accordance with 567 Iowa Administrative Code (IAC) 113.10(6)b, annual monitoring for the full Appendix II list will be conducted at MW-46A in Fall 2026. Additionally, shallow groundwater background monitoring wells MW-1 and MW-37A will be sampled for the full Appendix II list in Fall 2026. In accordance with Permit Special Provision X.4.b, resampling for the full Appendix II list will be conducted at MW-29A and MW-31A in Spring 2027.

⁽³⁾ During the Apr. 2026 sampling event, groundwater underdrain monitoring locations GU-1 and GU-2 were dry or had insufficient volume for sample collection.

Table 1
Monitoring Program Implementation Schedule
Spring 2026 Statistical Notifications
Winneshiek County Area Solid Waste Agency
Permit No. 96-SDP-01-74P

Comments Continued:

⁽⁴⁾ As further addressed in Table 4, prediction limit exceedances or double quantification rule (DQR) detections were identified for lead and zinc at shallow groundwater detection monitoring well MW-45A and for cobalt, lead, nickel, and zinc at deep groundwater detection monitoring well MW-22. Under the retesting plan, a statistically significant increase (SSI) is not declared until a subsequent result confirms the prediction limit exceedance or DQR detection. Therefore, resamples will be collected for lead and zinc at MW-45A, and for cobalt, lead, nickel, and zinc at MW-22, prior to the Fall 2026 sampling event.

Table 2
April 2026 Appendix II Detections - Shallow Groundwater
Spring 2026 Statistical Notifications
Winneshiek County Area Solid Waste Agency
Permit No. 96-SDP-01-74P

Constituent	Unit	MW-1 (Bkgrnd)	MW-4 (DwnGrad)	MW-7A (DwnGrad)	MW-24A (DwnGrad)	MW-29A (DwnGrad)	MW-31A (DwnGrad)	MW-33A (DwnGrad)	MW-37A (Bkgrnd)	MW-40A (DwnGrad)	MW-46A (DwnGrad)
1,4-Dichlorobenzene	ug/L		0.92 J								
Antimony	mg/L		0.00102 J	0.00165 J							
Arsenic	mg/L		0.00198 J			0.00107 J			0.000548 J		0.000852 J
Barium	mg/L	0.0646	0.492	0.161	0.0864	0.124	0.138	0.054	0.103	0.167	0.207
Benzene	ug/L		0.523								
Cadmium	mg/L		0.000214								
Chlorobenzene	ug/L		1.21								
Chromium	mg/L			0.00353 J							
Cobalt	mg/L		0.00356		0.000265 J	0.00179	0.0017	0.000242 J		0.00134	0.000282 J
Lead	mg/L			0.000629							
Nickel	mg/L		0.0188		0.00592	0.0435	0.0168			0.0135	0.0287
Selenium	mg/L	0.00163 J		0.00151 J				0.00146 J			0.00161 J
Thallium	mg/L			0.000761 J							
Total Suspended Solids	mg/L		4			2.25	1.25 J	1.63 J	1.13 J	3.25	2.38
Zinc	mg/L			0.0209	0.0866						

Comments:

DwnGrad = downgradient

Bkgrnd = background

mg/L = milligram per liter

ug/L - microgram per liter

Table 3
April 2026 Appendix II Detections - Deep Groundwater
Spring 2026 Statistical Notifications
Winneshiek County Area Solid Waste Agency
Permit No. 96-SDP-01-74P

Constituent	Unit	MW-11 (DwnGrad)	MW-18 (Bkgnd)	MW-19R ⁽¹⁾ (Bkgnd)	MW-35 (DwnGrad)
1,1-Dichloroethane	ug/L				0.502 J
Arsenic	mg/L			0.00106 J	0.000761 J
Barium	mg/L	0.0168	0.0637	0.0961	0.244
Chromium	mg/L			0.00831	
Cobalt	mg/L		0.000268 J	0.00267	0.00402
Copper	mg/L			0.00648	
Lead	mg/L			0.00195	
Nickel	mg/L	0.0111		0.00593	0.018
Selenium	mg/L	0.00225 J			
Tin	mg/L		0.00398 J		
Total Suspended Solids	mg/L	1.63 J	2	21.3	2.75
Vanadium	mg/L			0.00936	
Zinc	mg/L	0.0459			

Comments:

DwnGrad = downgradient

Bkgnd = background

mg/L = milligram per liter

ug/L - microgram per liter

⁽¹⁾ The Apr. 2026 total suspended solids (TSS) concentration at MW-19R was slightly elevated (21.1 mg/L). Arsenic, barium, chromium, cobalt, copper, lead, nickel, and vanadium were detected above the method detection limit (MDL) at MW-19R in Apr. 2026. The Apr. 2026 arsenic, chromium, cobalt, copper, lead, nickel, and vanadium concentrations are higher than the range of historic concentrations. Therefore, the Apr. 2026 arsenic, chromium, cobalt, copper, lead, nickel, and vanadium results at MW-19R were removed from background and will be crossed out in Table 15 of the 2026 Annual Water Quality Report.

Table 4
Summary of Well/Detected Constituent Pairs With No Previous SSIs
Spring 2026 Statistical Notifications
Winneshiek County Area Solid Waste Agency
Permit No. 96-SDP-01-74P

Well	Constituent ⁽¹⁾	Units	Most Recent Result (Apr. 2026)	Background Standard ⁽²⁾
Surface Water Monitoring Locations				
<i>Detection Monitoring Locations</i>				
SW-2	Cobalt	mg/L	0.000277 J	0.00436
	Total Suspended Solids	mg/L	20.3	N/A
SW-5	Cobalt	mg/L	0.000453 J	0.00436
	Total Suspended Solids	mg/L	32.4	N/A
Shallow Groundwater Monitoring Locations				
<i>Detection Monitoring Locations</i>				
MW-2R	Barium	mg/L	0.0971	0.63
	Selenium	mg/L	0.00236 J	0.005
MW-3	Arsenic	mg/L	0.000581 J	0.22
	Barium	mg/L	0.171	0.63
MW-4B	1,4-Dichlorobenzene	ug/L	0.601 J	1
	Arsenic	mg/L	0.000616 J	0.22
	Barium	mg/L	0.314	0.63
	Cadmium	mg/L	0.000148 J	0.0002
	Chlorobenzene	ug/L	0.835 J	1
	Chromium	mg/L	0.00273 J	0.005
	Cobalt	mg/L	0.00217	0.00272
	Nickel	mg/L	0.00796	0.00927
	Total Suspended Solids	mg/L	23.4	N/A
	Vanadium	mg/L	0.00268 J	0.005
MW-25A	Barium	mg/L	0.0933	0.63
MW-34A	Barium	mg/L	0.0607	0.63
	Total Suspended Solids	mg/L	1.38 J	N/A
MW-38A	Barium	mg/L	0.147	0.63
	Nickel	mg/L	0.00244 J	0.00927
	Total Suspended Solids	mg/L	1.13 J	N/A
MW-41A	Arsenic	mg/L	0.000619 J	0.22
	Barium	mg/L	0.13	0.63
	Total Suspended Solids	mg/L	1.75 J	N/A
MW-45A	Barium	mg/L	0.0905	0.63
	Cobalt	mg/L	0.000526	0.00272
	Lead	mg/L	0.00165*	0.0005
	Nickel	mg/L	0.0025 J	0.00927
	Total Suspended Solids	mg/L	1.13 J	N/A
	Zinc	mg/L	0.0461*	0.02
MW-101	Barium	mg/L	0.201	0.63
	Cobalt	mg/L	0.000215 J	0.00272
	Nickel	mg/L	0.00793	0.00927
	Total Suspended Solids	mg/L	7.38	N/A
	Zinc	mg/L	0.0134 J	0.02
Deep Groundwater Monitoring Locations				
<i>Detection Monitoring Locations</i>				
MW-22	Arsenic	mg/L	0.0012 J	0.002
	Barium	mg/L	0.118	0.1769
	Chromium	mg/L	0.00234 J	0.005
	Cobalt	mg/L	0.000631*	0.000624
	Lead	mg/L	0.000683*	0.0005
	Nickel	mg/L	0.00788*	0.005

Table 4
Summary of Well/Detected Constituent Pairs With No Previous SSIs
Spring 2026 Statistical Notifications
Winneshiek County Area Solid Waste Agency
Permit No. 96-SDP-01-74P

Well	Constituent ⁽¹⁾	Units	Most Recent Result (Apr. 2026)	Background Standard ⁽²⁾
Deep Groundwater Monitoring Locations Continued				
<i>Detection Monitoring Locations Continued</i>				
MW-22	Total Suspended Solids	mg/L	14	N/A
	Vanadium	mg/L	0.00222 J	0.005
	Zinc	mg/L	0.046*	0.02

* Current result is above background, if confirmed by retest sample(s) an SSI will be identified (1-of-2 retesting plan for groundwater prediction limits and DQR constituents).

** Current result is a confirmed SSI. Appendix II sampling will be completed within 90 days.

Comments:

DQR = double quantification rule

mg/L = milligrams per liter

N/A = not applicable

SSI = statistically significant increase above background

ug/L = micrograms per liter

⁽¹⁾ List contains constituents detected above the laboratory method detection limit (MDL) and includes J-flagged concentrations.

⁽²⁾ Source of background standards are provided in the Spring 2026 statistical evaluation memo, which will be submitted with the 2026 Annual Water Quality Report (AWQR).

- No SSIs were identified at the surface water monitoring locations and shallow groundwater detection monitoring locations MW-2R, MW-3, MW-4B, MW-25A, MW-34A, MW-38A, MW-41A, and MW-101.

- Prediction limit exceedances or double quantification rule (DQR) detections were identified for lead and zinc at shallow groundwater detection monitoring well MW-45A, and for cobalt, lead, nickel, and zinc at deep groundwater detection monitoring well MW-22. Under the retesting plan, a statistically significant increase (SSI) is not declared until a subsequent result confirms the prediction limit exceedance or DQR detection. Therefore, resamples will be collected for lead and zinc at MW-45A, and for cobalt, lead, nickel, and zinc at MW-22, prior to the Fall 2026 sampling event.

- The future sampling schedules for the detection monitoring locations are provided in Table 1.

Table 5
Summary of Ongoing and Newly Identified SSIs
Spring 2026 Statistical Notifications
Winneshiek County Area Solid Waste Agency
Permit No. 96-SDP-01-74P

Well	Constituent ⁽¹⁾	Units	Most Recent Result ⁽²⁾	Background Standard ⁽³⁾	Lower Confidence Limit	GWPS ⁽³⁾	Sample Dates		
							Initial Exceedance (above background)	Resample(s)	5th Background Sample ⁽⁴⁾
Shallow Groundwater Monitoring Locations									
Assessment Monitoring Locations									
MW-4	Benzene	ug/L	0.523	0.500	0.22	5	Apr. 2026	N/S	Nov. 2016
	Cadmium	mg/L	0.000214	0.0002	0.0001	0.005	Jun. 2020	N/S	Nov. 2016
	Chlorobenzene	ug/L	1.21	1.00	0.40	100	Apr. 2026	N/S	Nov. 2016
	Cobalt	mg/L	0.00356	0.00272	0.0004	0.0034	Nov. 2017	N/S	Nov. 2016
	Nickel	mg/L	0.0188	0.00927	0.004	0.1	Nov. 2020	N/S	Nov. 2016
MW-7A	Lead	mg/L	0.000629	0.0005	0.0001	0.01	Sep. 2015	N/S	Nov. 2016
	Zinc	mg/L	0.0209	0.02	0.007	2	Sep. 2015	N/S	Nov. 2016
MW-24A	Zinc	mg/L	0.00592	0.02	0.008	2	Nov. 2019	N/S	Jun-18
MW-40A	Nickel	mg/L	0.0135	0.00927	0.010	0.1	Sep. 2021	Dec. 2021	Aug. 2022
MW-46A	Nickel	mg/L	0.0287	0.00927	0.025	0.1	Nov. 2023	Jan. 2024	Dec. 2024
Corrective Action Monitoring Locations - Assessment Constituents									
MW-29A	Nickel	mg/L	0.0435	0.00927	0.052	0.1	Feb. 2020	N/S	Nov. 2020
MW-31A	Nickel	mg/L	0.0168	0.00927	0.028	0.1	Nov. 2019	Feb. 2020	Nov. 2020
Deep Groundwater Monitoring Locations									
Assessment Monitoring Locations									
MW-11	Nickel	mg/L	0.0111	0.005	0.02	0.1	Oct. 2018	N/S	Jul. 2024
	Zinc	mg/L	0.0459	0.02	0.062	2	Oct. 2018	N/S	Jul. 2024
Corrective Action Monitoring Locations - Assessment Constituents									
MW-35	Barium	mg/L	0.244	0.1769	0.26	2	Nov. 2019	Feb. 2020	Nov. 2020
	Nickel	mg/L	0.018	0.005	0.018	0.1	Nov. 2019	Feb. 2020	Nov. 2020

* For assessment monitoring locations, all current results are below background. If confirmed by a second event, location may return to detection monitoring in accordance with IAC 113.10(6)e. However, three consecutive events will be utilized to make the determination to return to detection monitoring to limit frequent fluctuation of wells moving between the detection and assessment monitoring program.

** LCL has exceeded the GWPS, this well/constituent pair is now identified as an SSL.

*** Non-MSWLF Unit source of the SSI identified.

Comments:

GWPS = groundwater protection standard

LCL = lower confidence limit

mg/L = milligrams per liter

MSWLF = municipal solid waste landfill

N/S = not resampled; SSI was declared in lieu of conducting resample(s).

SSI = statistically significant increase above background

Table 5
Summary of Ongoing and Newly Identified SSIs
Spring 2026 Statistical Notifications
Winneshiek County Area Solid Waste Agency
Permit No. 96-SDP-01-74P

Comments Continued:

SSL = statistically significant level above GWPS

ug/L = micrograms per liter

⁽¹⁾ List contains constituents which have been identified as SSIs during the Spring 2026 statistical evaluation. Unless otherwise noted, all current results listed in this table are above background. SSIs were declared in lieu of conducting resample(s).

⁽²⁾ Most recent results are from Apr. 2026.

⁽³⁾ Source of the background standards for the Apr. 2026 results are provided in the Spring 2026 statistical evaluation. The statistical memorandum will be submitted with the 2026 Annual Water Quality Report (AWQR).

⁽⁴⁾ The 5th background sample for the Appendix I and II metals is the fifth sampling event conducted using low-flow sampling methods. Low-flow sampling was initiated in Oct./Nov. 2014.

- No SSLs were identified for the assessment monitoring locations. Details regarding the future sampling schedules are provided in Table 1.

- No SSLs were identified for the assessment constituents in the corrective action monitoring locations. These locations will continue corrective action monitoring in Fall 2026 as listed in Table 1. A summary of the statistical comparisons for the corrective action constituents is provided in Table 6.

Table 6
Summary of Ongoing and Newly Identified SSLs
Spring 2026 Statistical Notifications
Winneshiek County Area Solid Waste Agency
Permit No. 96-SDP-01-74P

Well ⁽¹⁾	Constituent ⁽¹⁾	Units	Most Recent Result ⁽¹⁾	Upper Confidence Limit ⁽²⁾	GWPS ⁽³⁾	Initial Exceedance	Consecutive Compliance Dates		
							1st Occurrence	Most Recent	Duration
Shallow Groundwater Monitoring Locations									
Corrective Action Monitoring Locations									
MW-29A	Cobalt	mg/L	0.00179	0.0122	0.0034	Nov. 2019	N/A	N/A	N/A
MW-31A	Cobalt	mg/L	0.0017	0.0120	0.0034	Nov. 2019	N/A	N/A	N/A
MW-33A	Arsenic	mg/L	< 0.002	0.048	0.22	Nov. 2019	Fall 2025	Spring 2026	1 Year
Delineation Monitoring Locations									
MW-43A	Cobalt	mg/L	0.00226	0.0041	0.0034	Sep. 2022	N/A	N/A	N/A
Deep Groundwater Monitoring Locations									
Corrective Action Monitoring Locations									
MW-35	Cobalt	mg/L	0.00402	0.0068	0.0021	Nov. 2019	N/A	N/A	N/A

* This well/contaminant pair has been compliant for 3 consecutive years and no longer has an SSL.

** Non-MSWLF Unit source of the SSL identified.

Comments:

GWPS = groundwater protection standard

mg/L = milligrams per liter

MSWLF = municipal solid waste landfill

N/A = Not applicable; indicates the analyte/well pair has not achieved compliance with the GWPS (i.e., upper confident limit or the upper 95% confidence limit on the trend line is lower than the GWPS for a period of three consecutive years).

SSL = statistically significant level above GWPS

⁽¹⁾ The most recent results are from the Apr. 2026 event.

⁽²⁾ If a decreasing trend was identified, the value is the upper 95% confidence limit on the trend line.

⁽³⁾ Source of the Groundwater Protection Standard (GWPS) are provided in the Spring 2026 statistical evaluation. The statistical memorandum will be submitted with the 2026 Annual Water Quality Report (AWQR).

- For the corrective action constituents in the shallow groundwater corrective action and delineation monitoring locations, statistically significant levels SSLs over the GWPS remained for cobalt in MW-29A, MW-31A, and MW-43A.
- Compliance with the GWPS remained for arsenic in MW-33A during the Spring 2026 statistical evaluation. In accordance with 567 IAC 113.10(9)e(2), arsenic in MW-33A will return to an assessment constituent in Fall 2028, as long as concentrations remain below the GWPS during interim statistical evaluations. In addition, since arsenic is the only corrective action constituent at MW-33A, MW-33A will return to assessment monitoring when arsenic returns to an assessment constituent. As described in the Spring 2026 statistical evaluation to be submitted with the 2026 Annual Water Quality Report (AWQR), the GWPS for arsenic is taken as background, and arsenic in background will be re-evaluated during the Fall 2026 statistical evaluation. The re-evaluation of arsenic in background may influence the future status of arsenic at MW-33A.
- An SSL remained for cobalt in deep groundwater corrective action monitoring location MW-35.
- No changes are recommended for the shallow and deep groundwater corrective action and delineation monitoring locations based on the corrective action statistical results conducted during the Spring 2026 statistical evaluation. Details regarding the future sampling schedules are provided in Table 1.

Attachment 2
Figure

