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March 3, 2025

Brian Rath, P.E.
Iowa Department of Natural Resources
6200 Park Avenue
Suite 200
Des Moines, IA 50321

Re: Corrective Action Changes – Elevation Monitoring Plan
Cedar Rapids Linn County Solid Waste Agency Site 1
Permit No. 57-SDP-03-75C

Dear Brian Rath, P.E.:

On behalf of the Cedar Rapids Linn County Solid Waste Agency (Agency), Foth Infrastructure & Environment, LLC (Foth) is submitting this plan for monitoring groundwater elevations associated with an upcoming change in the approved groundwater remedy. As reported in the *2024 Annual Water Quality Report* (Foth, 2025), a meeting was held between the Iowa Department of Natural Resource (IDNR), the Agency, and Foth on August 28, 2024 to review the history of groundwater corrective action and to discuss upcoming changes to the approved remedy associated with the nearby industrial pumping center discontinuing alluvial well pumping and installing a horizontal collector well (HCW) to replace the alluvial wells. In addition, the status of the groundwater plumes at Site 1 was reviewed. In the email dated January 3, 2025 (IDNR, 2025), IDNR noted that expanded modeling updates may not clarify the capture zone for the new horizontal collector well and requested development of a “plan for monitoring groundwater levels in a select set of monitoring wells with the goal of obtaining field data to visualize actual groundwater flow and compare to assumed flow from the current corrective action.”

The City of Cedar Rapids was contacted for an update on the progress of the HCW construction. The City of Cedar Rapids indicated construction of the pump house is anticipated for Fall 2025 with start-up of the HCW in Spring 2026. Shutdown of the alluvial wells will occur shortly after the start-up of the HCW. Foth and the Agency will remain in contact with the City of Cedar Rapids and the industrial pumping center for schedule updates, notification of HCW start-up, and notification of shutdown of the alluvial wells.

Based on the current HCW construction schedule, Foth proposes to initiate elevation monitoring in July 2025. In addition to existing historical elevation data, this data will provide a baseline of current conditions prior to the HCW switchover. Elevations will be monitored from start-up in July 2025 to 6 months after the HCW switchover occurs. Based on this schedule, it is anticipated that results will be evaluated in the 2025 Annual Water Quality Report.

The proposed elevation monitoring network includes monitoring wells in the immediate vicinity of the HCW, cross-gradient wells, and upgradient wells. Transducers will be programmed to collect elevation readings every 12 hours and will be installed in MW-17, MW-20, MW-24, MW-26, MW-28,

MW-101A, MW-106A, and MW-107A. Monitoring wells MW-17, MW-20, MW-101A, MW-106A, and MW-107A will monitor groundwater elevations nearest to the Cedar River and the HCW and cross-gradient conditions. Monitoring wells MW-24, MW-26, MW-28 allow for upgradient groundwater elevations that are not anticipated to be impacted by the HCW switchover for evaluation of results.

References

Foth, 2025. *2024 Annual Water Quality Report, Cedar Rapids Linn County Solid Waste Agency Site 1, 2250 A Street SW, Cedar Rapids, IA 52404, IDNR Permit No. 57-SDP-03-75C, Project I.D.: 24C034.00*. January 30. [Doc. No. 112131].

Iowa Department of Natural Resources (Brian Rath, P.E.), Email to Karmin McShane, 3 Jan 2025. "CRLCSWA Site 1 – Corrective Action Changes." [Doc. No 111644].

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



Gina Wilming
Senior Project Manager
Iowa CGP #2099
319-297-2065



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cc: Garrett Prestegard, Cedar Rapids Linn County Solid Waste Agency
Karmin McShane, Cedar Rapids Linn County Solid Waste Agency
IDNR Field Office #1

Enclosure

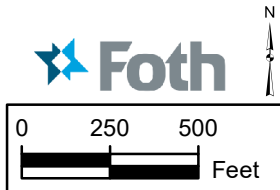
Attachment 1 Figure



NOTES:
 1. Aerial imagery was flown in Spring 2023 and provided by Linn County, Iowa.

LEGEND

MW-38	◆	Deeper Bedrock Background Well
MW-27	◆	Deeper Bedrock Monitoring Well
MW-37	◆	Upper Bedrock Background Well
MW-26	◆	Upper Bedrock Monitoring Well
	□	Parcels



Cedar Rapids Linn County Solid Waste Agency		
FIGURE 1		
HMSP MONITORING NETWORK SITE 1		
Date: JANUARY 2025	Revision Date:	
Drawn By: DAT	Checked By: GMN	Project: 24C034.00