

Our reference: 12606359-LTR-5

December 18, 2024

Mr. Sam Bennett
Muscatine Power and Water
3205 Cedar Street
Muscatine, Iowa 52761

2024 Landfill Inspection Letter Report

Dear Mr. Bennett:

This letter report serves to document observations and recommendations based on a site inspection to the Muscatine Power and Water (MPW) Coal Combustion Residual (CCR) Landfill on October 29, 2024. Participants in the site inspection included Sam Bennett (MPW) and Mike Alowitz (GHD).

Landfill operations are permitted under Iowa Department of Natural Resources Operating Permit #70-SDP-06-82P with an expiration date of August 10, 2030. The inspection included driving perimeter roads, observing monitoring wells and cutoff drain discharge points, walking selected slope areas, viewing of ponds and piping infrastructure, and observation of the fill area. There were no active landfill operations during the inspection. The weather conditions were sunny and windy.

In general, the landfill appears to be in good operating condition.

- CCR was observed within the permit limits and infrastructure for managing stormwater around the perimeter and in the active fill area appeared intact.
- The temporary cover areas and most of the permanent cover areas appeared to be in good repair with only minor areas of limited vegetation.
- Access roads were readily drivable and appeared sufficient for all-weather travel.
- The leachate system appeared to be operating as intended. The leachate system was a noted maintenance issue during the 2023 site inspection.
- Grass cover was in good condition.

Two points for future maintenance were identified:

- Vegetation encroachment by woody vegetation at the north-northwest area of the closed portion of the landfill and along some drainage ways was noted. The woody vegetation should be removed.
- Well pads for monitoring wells MW-26 and MW-27 are in poor, cracked condition and should be replaced.

Select photographs collected during the inspection area presented in Attachment A.

Overall, the landfill appears to be well managed and operating in compliance with the Operating Permit.

Regards,

A handwritten signature in black ink that reads "Michael Alowitz". The signature is written in a cursive style with a large, stylized initial "M".

Michael Alowitz, P.E.
Project Manager

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MA/Is/LTR-5

Copy to: Jean Brewster, MPW
Neil Hoskins, MPW

Attachment 1

Photographs

Site Photographs



Photo 1 *Broken concrete pad at monitoring well MW-26.*



Photo 2 *Broken concrete pad at monitoring well MW-27.*



Photo 3 Example of woody vegetation growing along perimeter drainage channel and mowed final cover.



Photo 4 Leachate discharge totalizing flowmeter reading 260,000 gallons.



Photo 5 *Active fill area looking west from access road.*



Photo 6 *Active fill area showing compacted CCR and ridge of recently deposited CCR.*