



HALEY & ALDRICH, INC.
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14 February 2024
File No. 129342-051

Associated Electric Cooperative, Inc.
2814 South Golden Avenue
P.O. Box 754
Springfield, Missouri 65801-0754

Attention: Jenny Jones – Manager, Land and Water Resources

Subject: Assessment Monitoring Program August 2023 Sampling Event
Statistically Significant Level Notification
New Madrid Power Plant – Pond 003

Dear Ms. Jones:

Associated Electric Cooperative, Inc. (AECI) has implemented the U.S. Environmental Protection Agency Federal Coal Combustion Residuals Rule (Title 40 Code of Federal Regulations [40 CFR] §§ 257 and 261) effective 19 October 2015, along with subsequent revisions, for the New Madrid Power Plant in Marston, Missouri. AECI provided Haley & Aldrich, Inc. with groundwater monitoring data collected from the Pond 003 groundwater monitoring system that meet the requirements of 40 CFR §§ 257.91 and 257.93. This memorandum documents the results of statistical tests conducted to determine if Appendix IV groundwater monitoring constituents detected in wells downgradient of Pond 003 are present at a statistically significant level (SSL) above groundwater protection standards (GWPS) consistent with the requirements in 40 CFR § 257.95.

Results of the statistical analyses completed on 15 January 2024 of the August 2023 assessment monitoring sampling event data for each analyte/well combination indicate a SSL above GWPS at Pond 003. Consistent with statistical analyses completed for previous assessment monitoring events, molybdenum was indicated as a SSL at monitoring wells MW-7, MW-8, MW-9, P-2, P-3, and P-5 for the August 2023 event.

Sincerely yours,
HALEY & ALDRICH, INC.

A handwritten signature in blue ink, appearing to read "Steve Putrich".

Steve Putrich, P.E.
Project Principal

A handwritten signature in blue ink, appearing to read "Mark Nicholls".

Mark Nicholls, P.G.
Lead Hydrogeologist