

**Sikeston Board of Municipal Utilities  
Sikeston Power Station – Fly Ash Pond  
Documentation of Monitoring Well Design, Installation & Development  
Federal CCR Rule Record Document  
for Compliance with 40 CFR 257.91**

**Groundwater Monitoring System for Fly Ash Pond**

The groundwater monitoring system for the Fly Ash Pond consists of five wells. The wells are identified as MW-1R, MW-2, MW-3, MW-7, and MW-9. MW-2 and MW-3 are located hydraulically upgradient of the Fly Ash Pond whereas MW-1R, MW-7, and MW-9 are located hydraulically downgradient of the Fly Ash Pond. Monitoring wells MW-2 and MW-3 were installed on April 26 and 27, 2016. Monitoring well MW-7 was installed April 18, 2017 and MW-9 was installed November 13, 2017. The most recent well, MW-1R, was installed on September 3, 2021. MW-1R was installed closer to the Fly Ash Pond and it is intended to replace MW-1, which will be decommissioned following the completion of a minimum of eight rounds of background sampling, as recommended in the *Sikeston Board of Municipal Utilities Sikeston Power Station Detection Monitoring Program for Fly Ash Pond – Calcium, Sulfate, and Total Dissolved Solids in MW-1 Alternate Source Demonstration* dated March 10, 2021.

All well construction activities were performed under the direction of a Registered Geologist in the State of Missouri. Well design and installation techniques were completed in accordance with 10 CSR 23-4, which is consistent with the standards summarized in 40 CFR 257.91(e). Well depths are between 30 and 35.5 feet below ground surface. All wells monitor uppermost groundwater, which is within the alluvial aquifer at the Fly Ash Pond site. Each well yields sufficient quantities of water for the purposes of sampling and analysis.

**Professional Engineer's Certification**

40 CFR 257.91(f) Certification of Groundwater Monitoring System

I, Thomas R. Gredell, P.E., a professional engineer licensed in the State of Missouri, hereby certify in accordance with 40 CFR 257.91(f) that the groundwater monitoring system for the Sikeston Board of Municipal Utilities, Sikeston Power Station, Fly Ash Pond meets the requirements of 40 CFR 257.91 as found in federal regulation 40 CFR 257, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments. In addition, the determination was made using recognized and generally accepted methods.

Name: \_\_\_\_\_ Thomas R. Gredell, P.E. \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Registration Number: PE-021137

State of Registration: Missouri

