

Coal Ash Ponds in Missouri

| Utility | Plant | No. of Ponds/No. unlined ponds ¹ | High Levels of Arsenic, Boron, Sulfate, Cobalt, Lithium or Molybdenum ² | Highest Levels of Arsenic (As), Boron (B), and Sulfate (S), Cobalt (Co), Lithium (Li), and Molybdenum (Mb) | Closure Plans ³ | Notes |
|---------------------------------|---------------|---|--|--|---------------------------------|--|
| Ameren Missouri | Meramec | 5/5 | Boron, Sulfate, Arsenic, Cobalt, Lithium, Molybdenum | As: 2x standard, B: 15x standard, S: 5x standard, Co: 1.1x standard, Li: 3.5x standard, Mb: 5.2x standard | Closure In place | to close by end 2022 |
| | Rush Island | 1/1 | Boron, Sulfate, Arsenic, Lithium, Molybdenum | As: 25x standard, B: 7.8x standard, S: 1.36x standard, Li: 1.1x standard, Mb: 9.4x standard | Closure In place | |
| | Labadie | 2/2 (+ 1 LF) | Boron, Sulfate, Arsenic, Cobalt, Lithium, Molybdenum | As: 3.5x standard, B: 9.1x standard, S: 3.1x standard, Co: 1.6x standard, Li: 1.2x standard, Mb: 6.7x standard | Closure In place | |
| | Sioux | 3/3 (+ 1 LF) | Boron, Sulfate, Cobalt, Lithium, Molybdenum | B: 15.6x standard, S: 4.4x standard, Co: 2x standard, Li: 1.6x standard, Mb: 83x standard | Closure In place | |
| Kansas City Power & Light | Iatan | 2/2 (+ 1 LF) | No data for ponds; Arsenic, Lithium (landfill) | No data for ponds; Landfill - As: 5.2x standard; Li: 1.3x standard | Clean Closure | |
| | Montrose | 2/2 (+ 1 LF) | Sulfate, Arsenic, Lithium | As: 1.5x standard, S: 4x standard, Li: 1.9x standard | Clean Closure | to close or convert to gas by Dec 31, 2018 |
| | Sibley | 2/2 (+ 1 LF) | Boron, Arsenic, Molybdenum | B: 2.5x standard, As: 25x standard, Mb: 13.3x standard | Clean Closure | to close or convert to gas by Dec 31, 2018 |
| | Lake Road | 1/1 | No data | No data | No information | converted to gas in 2016 |
| Associated Electric Cooperative | New Madrid | 3/3 (+ 1 LF) | Boron, Sulfate, Arsenic, Cobalt, Lithium, Molybdenum | B: 10x standard, S: 1.8x standard, As: 1.1x standard, Li: 1.2x standard, Mb: 39x standard | 2 Closure In Place; 1 Undecided | |
| | Thomas Hill | 4/4 | Sulfate, Arsenic, Cobalt | As: 2.5x standard, S: 9x standard, Co: 1.2x standard | 1 Clean; 3 Undecided | |
| City of Sikeston | Sikeston | 2/2 | Boron, Sulfate | B: 2.9x standard, S: 1.8x standard | Closure In place | EJ concerns |
| City Utilities of Springfield | James River | 2/2 (+ 1 LF) | No data | No data | Clean Closure | converted to gas October 2015 |
| | John Twitty | 2/2 (+ 1 LF) | No data for ponds; LF in assessment monitoring | No data for ponds; LF in assessment monitoring | Clean Closure | |
| Empire District | Asbury | 1/1 | Sulfate, Cobalt, Lithium | S: 9.6x standard, Co: 7.7x standard, Li: 8.5x standard | Closure in place | |
| Independence Power & Light | Blue Valley | 3/3 | No data | No data | Closure In place | converted to gas September 2015 |
| | Missouri City | 1/1 | No data | No data | Closure In place | closed September 2015 |
| City of Columbia | Columbia | 1/1 | No data | No data | Clean Closure | converted to gas in 2015 |

¹ EPA coal ash regulations treat a pond as considered unlined if it has no liner or its liner does not meet the regulations' liner requirements. 40 CFR 257.71(a)(3).

² High levels defined as exceeding federal and state standards - the federal drinking water standard for arsenic (10 µg/l), 40 C.F.R. § 141.62(b), the Missouri water quality standard for drinking water for sulfate (250 µg/l), 10 CSR 20-7.031 Table A1, the Missouri water quality standard for groundwater for boron (2,000 µg/l), 10 CSR 20-7.031 Table A1, and the groundwater protection standards set by EPA in the Coal Combustion Residuals regulations for cobalt (6 µg/l), lithium (40 µg/l) and molybdenum (100 µg/l), 40 C.F.R. § 257.95(h)(2).

³ Federal regulations allow two means of closing ash ponds: (1) Clean Closure, which requires removing all of the ash and cleaning up related contamination, 40 C.F.R. § 257.64(c); or (2) Closure in Place, which requires draining and stabilizing the pond, preventing post-closure infiltration of water into the pond and leakage of ash out of the pond, and placing a final cover system over the pond, 40 C.F.R. § 257.102(d).