

GROUNDWATER TREATMENT - AMEREN ENERGY CENTERS

Conceptual Site Model

CCR impacts to groundwater.

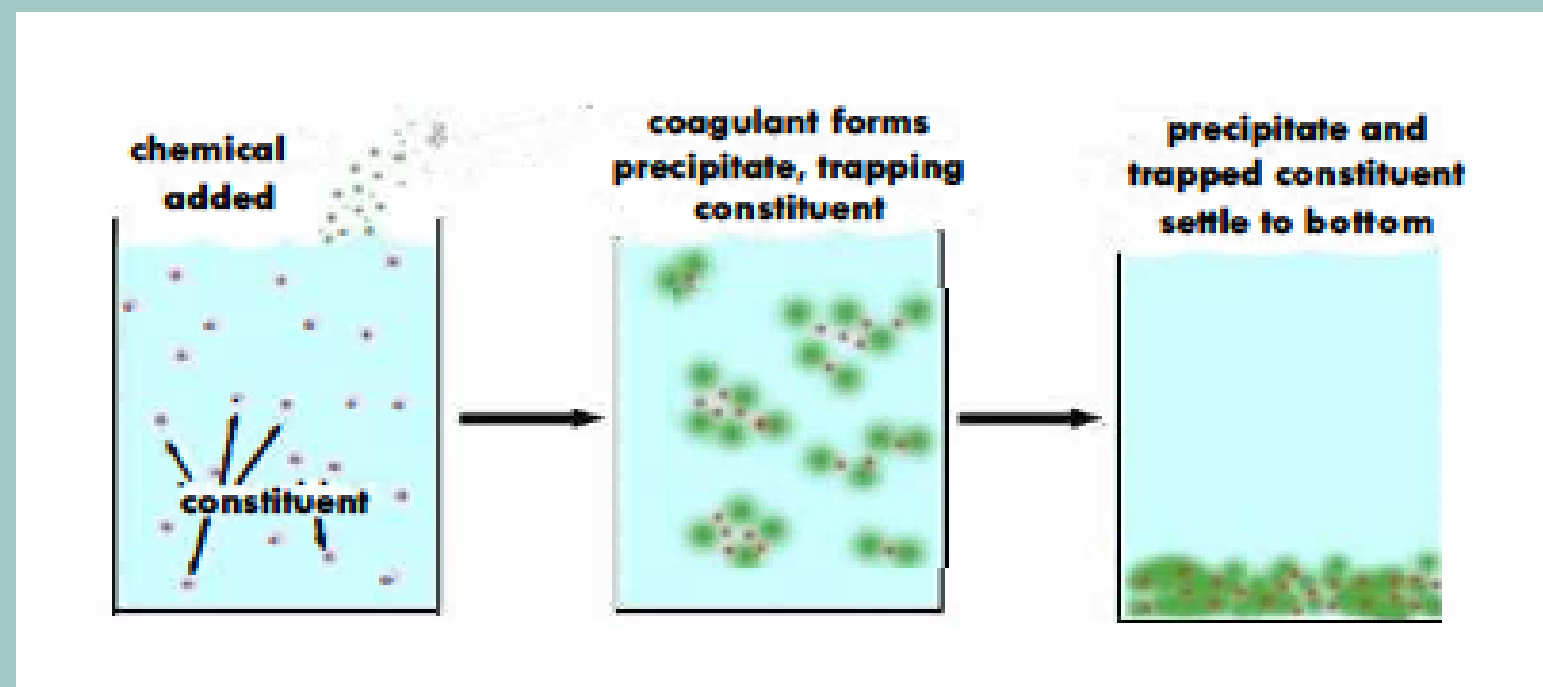


Remedial Goal

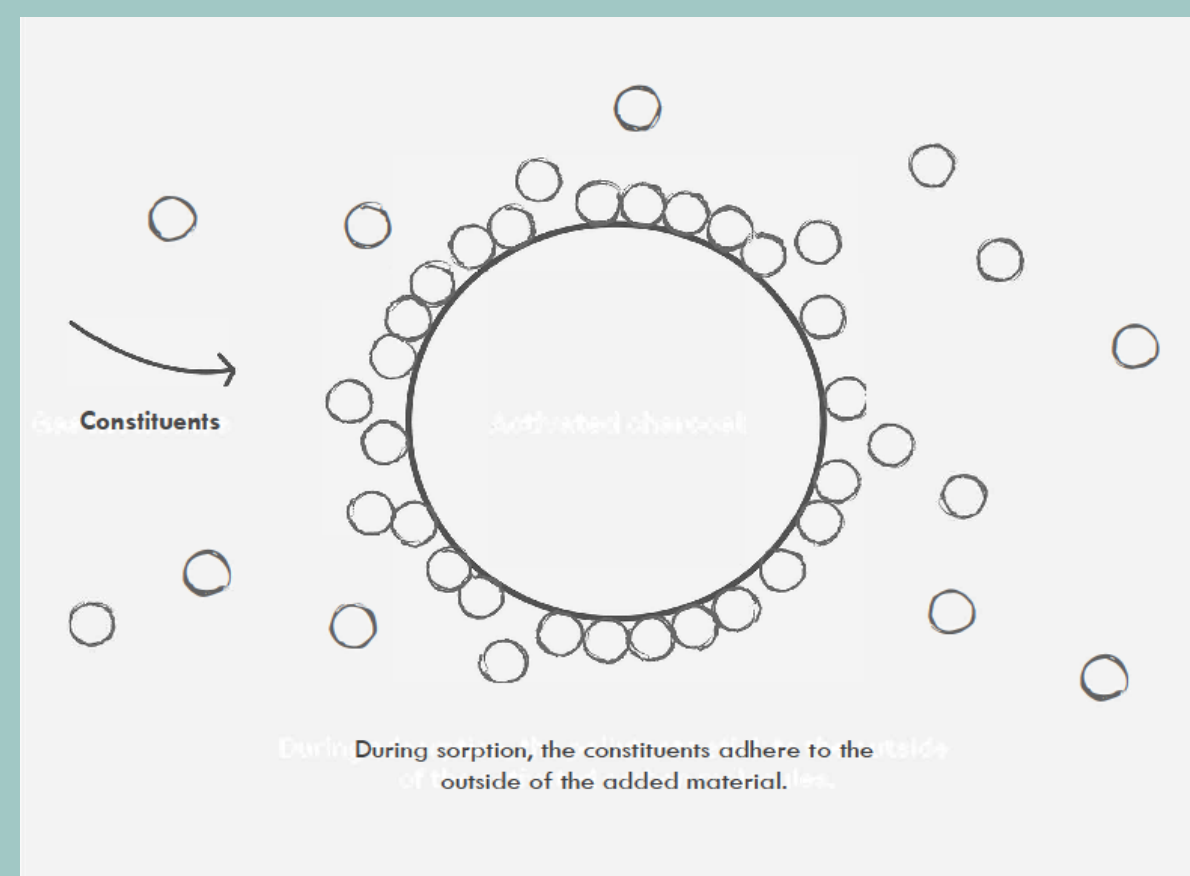
Reduction of constituents in groundwater using in situ (“in place”) technologies.

Treatment Approaches Being Studied

- Precipitation or Co-precipitation – addition of chemicals to remove constituents from solution

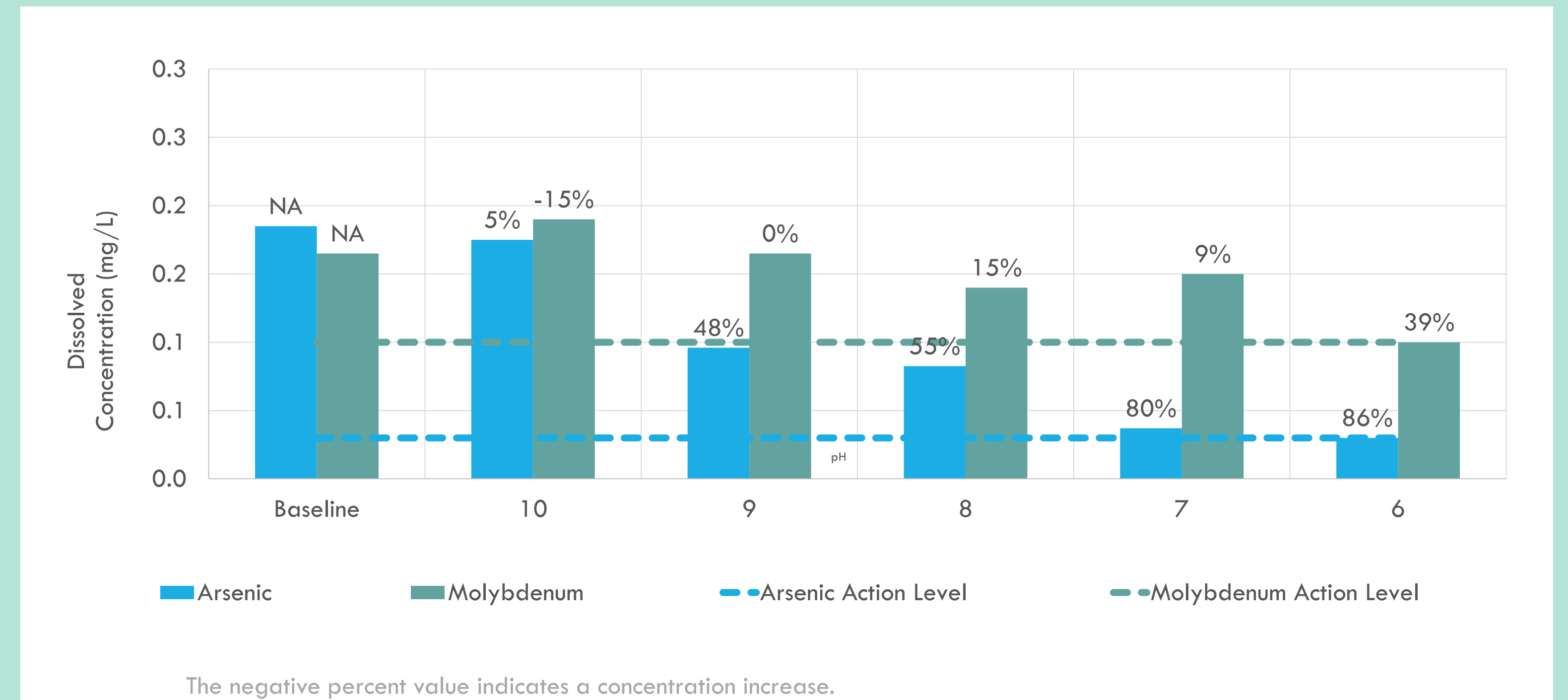


- Sorption – attraction of constituents to the surface of an added material



Laboratory Test Results So Far

- Chemicals were added to groundwater samples collected from the ash ponds to adjust the pH.
- Results show that arsenic and molybdenum can be reduced to levels below action levels using pH adjustment. Percent values above each column indicate the concentration change.



- Other tests are still in progress.

Remedy Options

Treatment may include injection of chemicals into the groundwater to reduce constituent concentrations.

May require more than one technology to address multiple constituents.

