

COAL COMBUSTION RESIDUAL (CCR) DEWATERING

COMPREHENSIVE CAPABILITIES FOR CCR MANAGEMENT

- ▶ Groundwater Modeling
- ▶ Engineering and Design
- ▶ Dewatering Systems
- ▶ Pumps and Equipment
- ▶ Filtration and Treatment
- ▶ Maintenance and Operation

THREE SOURCES. THREE APPROACHES.

Water management allows for stabilization during cap-in-place and clean closure activities, providing working access for the required excavation equipment. Stabilization of fly ash requires extracting three distinct sources of water – free water from precipitation or sluicing; groundwater that intrudes from underneath, and water found in the pore spaces of the ash itself.

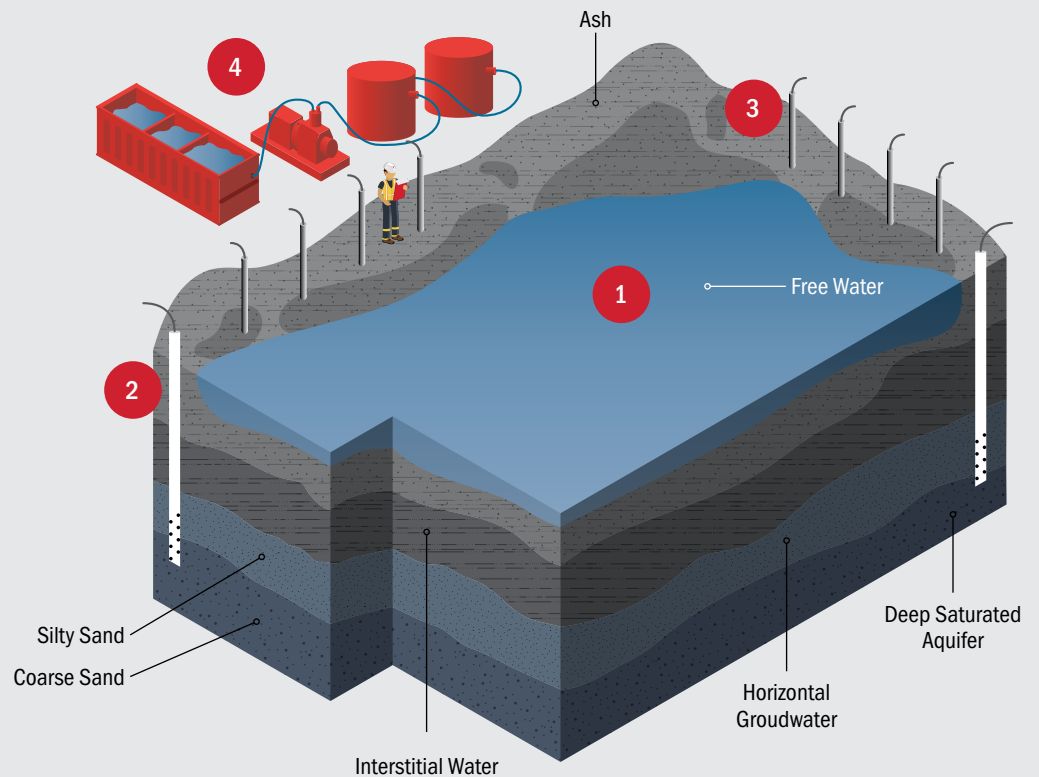
Compliance demands it. So does your budget.

Safe and effective management of the water associated with coal combustion residuals is imperative—not only for EPA compliance, but to maintain the integrity of your excavations and to stay on schedule and within budget.

Since 1934, Griffin has designed and delivered thousands of successful dewatering solutions—all tailored to the variables unique to each project. Every ash pond is unique. Stabilizing coal combustion residuals for excavation requires engineering design, operational expertise, and experienced supervision that only a national leader in dewatering can provide.

DEWATERING COAL COMBUSTION RESIDUALS

1. DESIGN A PUMPING AND FILTRATION PLAN TO REMOVE FREE WATER.
2. INSTALL DEEP WELLS, WELLPOINTS OR EDUCTORS TO LOWER GROUNDWATER BELOW AND AROUND THE ASH POND.
3. USE WELLPOINTS OR EDUCTORS TO DRAIN THE INTERSTITIAL WATER FROM THE ASH INSIDE THE POND.
4. DEPLOY WATER FILTRATION AND TREATMENT EQUIPMENT TO ENSURE DISCHARGE WATER QUALITY OF ACCEPTABLE LEVEL



GET CONFIDENCE. GET GRIFFIN.

Construction dewatering is as crucial as it is complex. At Griffin, it's our specialty. We understand soil types and permeability, excavation and construction methods, filtration and treatment issues. We know what it takes to protect assets and personnel.

From manufacturing quality equipment to providing effective solutions, our hydrology and engineering teams have done it all. In the process, we've earned an enduring reputation for keeping constructions projects safe and on schedule, minimizing risk while maximizing peace of mind.

Safety is fundamental to everything we do. From day one, we insist on best-practice procedures supported by first-hand training and extensive field experience. Just as groundwater control is essential to the integrity of any construction project, our commitment to doing it right is essential to the company we've built.

**Contact us at 800-431-1510 or visit
GriffinDewatering.com for more information.**

ONE-STOP FOR GROUNDWATER CONTROL

- Construction Dewatering
- Water Treatment and Filtration
- Hydrology, Engineering and Design
- Groundwater Modeling Systems
- Aquifer Testing
- Uplift Pressure Calculation
- Recharge Well Design
- Emergency Services
- Pumps and Equipment (Sales and Rental)