



Ground/Water Treatment & Technology

PROJECT PROFILE

CCR Ash Basin Dewatering & Treatment System

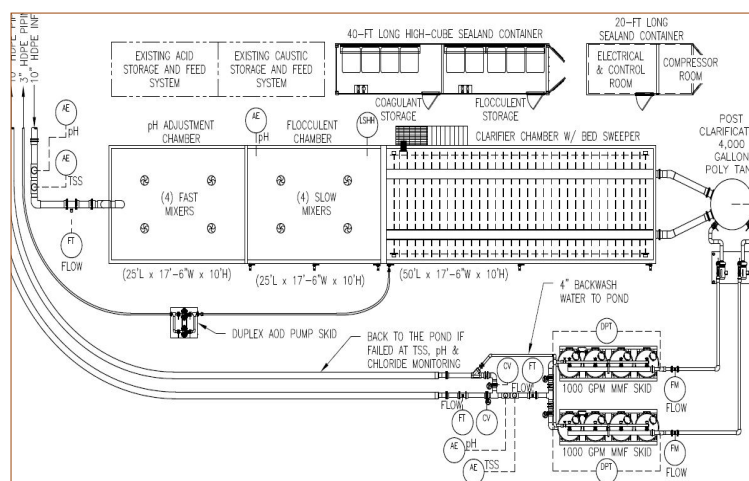
Project Location	North Carolina
Client	Major Utility / Southeast
GWTT Scope	Design, Build , Install, O&M
Contract Value	\$2M
Project Duration	12 Months
Contaminants	TSS, Arsenic, Cadmium, and Thallium

Key Project Details:

- Flow rate of 1,400 GPM
- New and more advanced modular clarification system that enables pH adjustment and chemical precipitation to occur simultaneously in a single vessel
- Chemicals were containerized in Conex boxes to minimize secondary containment and winterization concerns
- System was modular in design and configured to target select metals above discharge criteria (specifically Arsenic)

Project Challenges:

- GWTT's system design had to incorporate existing/legacy chemical feed piping
- The relatively high flow rate and stringent discharge limits required additional in-house testing and critical design considerations



CCR Ash Basin Dewatering/Treatment Narrative

GWTT was contracted to design, procure, build, install, commission, and operate and maintain a site-specific Wastewater Treatment System (WWTS) to facilitate the treatment and discharging of compliant water from a large coal ash basin located in North Carolina.

The system was designed to treat a maximum flow rate of 1400 GPM. The main contaminants of concern include Total Suspended Solids (TSS), Arsenic, Selenium, Cadmium and Thallium.

Due to the relatively high flow rate, GWTT designed a single large tank for pH adjustment and the coagulation, flocculation, clarification, and sedimentation process. All other treatment equipment was modular and constructed and tested in our Wharton, NJ, manufacturing center thereby reducing field labor and associated field expenses.

GWTT also incorporated all existing chemical feed equipment and piping into our design.

GWTT was acknowledged by the customer for exceptional service in the execution of this critical project. In summary, they noted that the entire GWTT team delivered, and the customer experience was very positive throughout the entire process.

Connect with one of our CCR Coal Ash Remediation experts now: 800-770-0901



Ground/Water Treatment & Technology
627 Mt. Hope Road
Wharton, NJ 07885

p: (973) 983-0901
f: (973) 983-0903
www.gwttllc.com

© GROUND/WATER TREATMENT & TECHNOLOGY, LLC

JOB# 3756