



FREQUENTLY ASKED QUESTIONS

COAL ASH/COAL COMBUSTION RESIDUALS SITES?

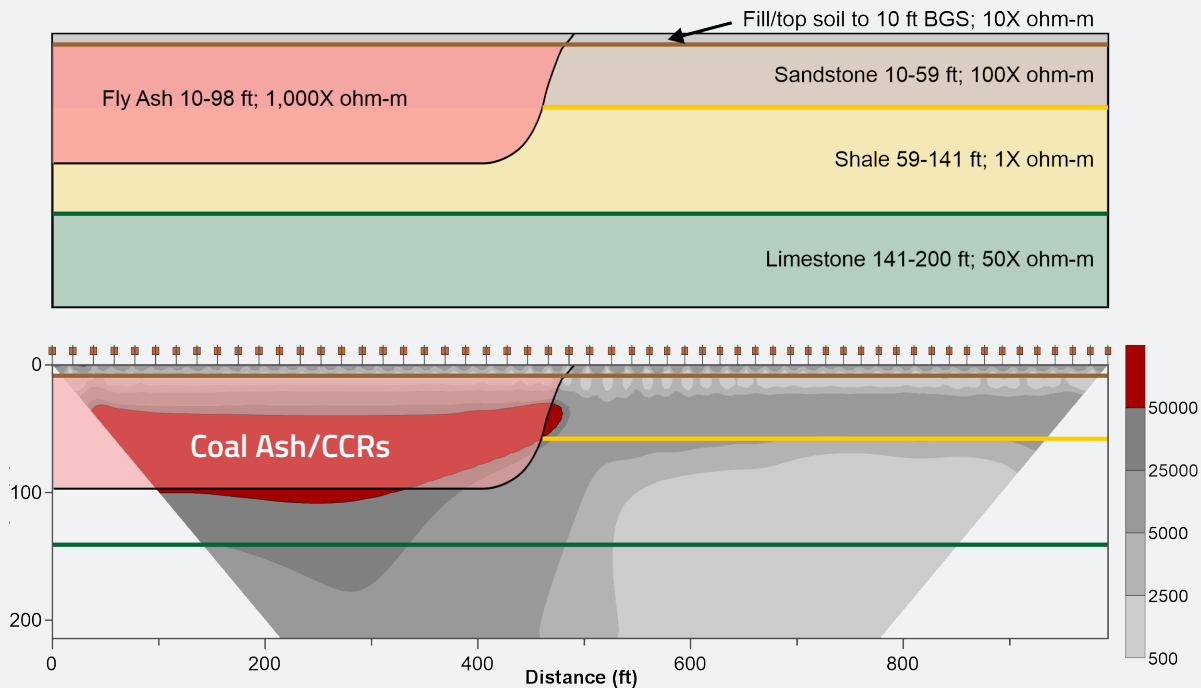
Can Aestus Identify Extents of Coal Ash/CCRs?

YES

- Continuous 2D electrical resistivity images (Aestus GeoTrax Surveys™) can delineate horizontal and vertical extents
- Understanding extents with higher certainty is critical to project outcomes
- Scanning is non-invasive, limiting the environmental hazards (e.g., potential cross contamination of ash) associated with untargeted drilling programs
- Results confirmed via targeted drilling at coal ash site (*references upon request*)

How Does Aestus Detect and Delineate Coal Ash/CCRs?

1. Coal ash/CCR material is typically several orders of magnitude more electrically resistive than native materials, which results in a strong electrical contrast and easy detection typically
2. Aestus' GeoTrax Survey™ has higher sensitivity than traditional electrical resistivity imaging (ERI/ERT) methods, enabling improved resolution of lateral and vertical coal ash extents
3. Aestus' full GeoTrax CSM+™ process includes 2D/3D integration of multiple lines of evidence (historical information and scanning data) to develop conclusions regarding coal ash extents



The upper graphic shows an example site with a coal ash emplacement and covered with fill material, resulting in no discernible ash lateral boundary on the ground surface. The lower graphic depicts what would be seen in the resulting GeoTrax Survey™ scan. Notice how the lateral extent and bottom of the fly ash deposit are clearly visible as a distinct, strong electrically resistive anomaly (dark red zone in image).

Details on the May, 2024 EPA updates on CCRs: <https://www.epa.gov/coalash/final-rule-legacy-coal-combustion-residuals-surface-impoundments-and-ccr-management-units>



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