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Department of
**Environment &
Conservation**

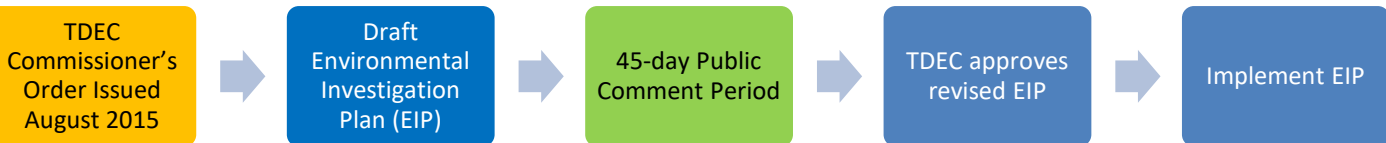
TVA Allen Plant Restoration Project Annual Update

Introduction

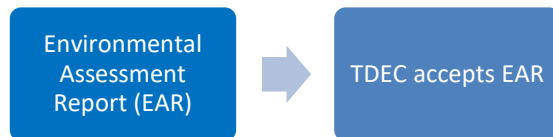
- Commissioner's Order OGC15-0177
- 2021 Record of Decision issued by TDEC Division of Remediation
- East Ash Disposal Area (EADA) Drawdown and Dewatering
- Remove Coal Combustion Residuals (CCR) from EADA and West Ash Disposal Area (WADA)
- Remediate localized groundwater conditions through groundwater treatment

Commissioner's Order OGC15-0177

Investigation phase



Assessment phase



Remediation phase



2021 Record of Decision

In 2017, TVA detected
arsenic, lead, fluoride in
groundwater



TDEC Requests Remedial
Investigation Work Plan (RIWP)



Gather the data necessary
to evaluate the nature and
extent of environmental
impacts at a property

Remedial Investigation
Report, Feasibility Study &
Proposed Plan



Public Comment Period



2021 TDEC issues Record of
Decision (ROD)

Remove CCR from EADA and
WADA - Closure by Removal
(CBR)



Groundwater extraction and
treatment system for EADA

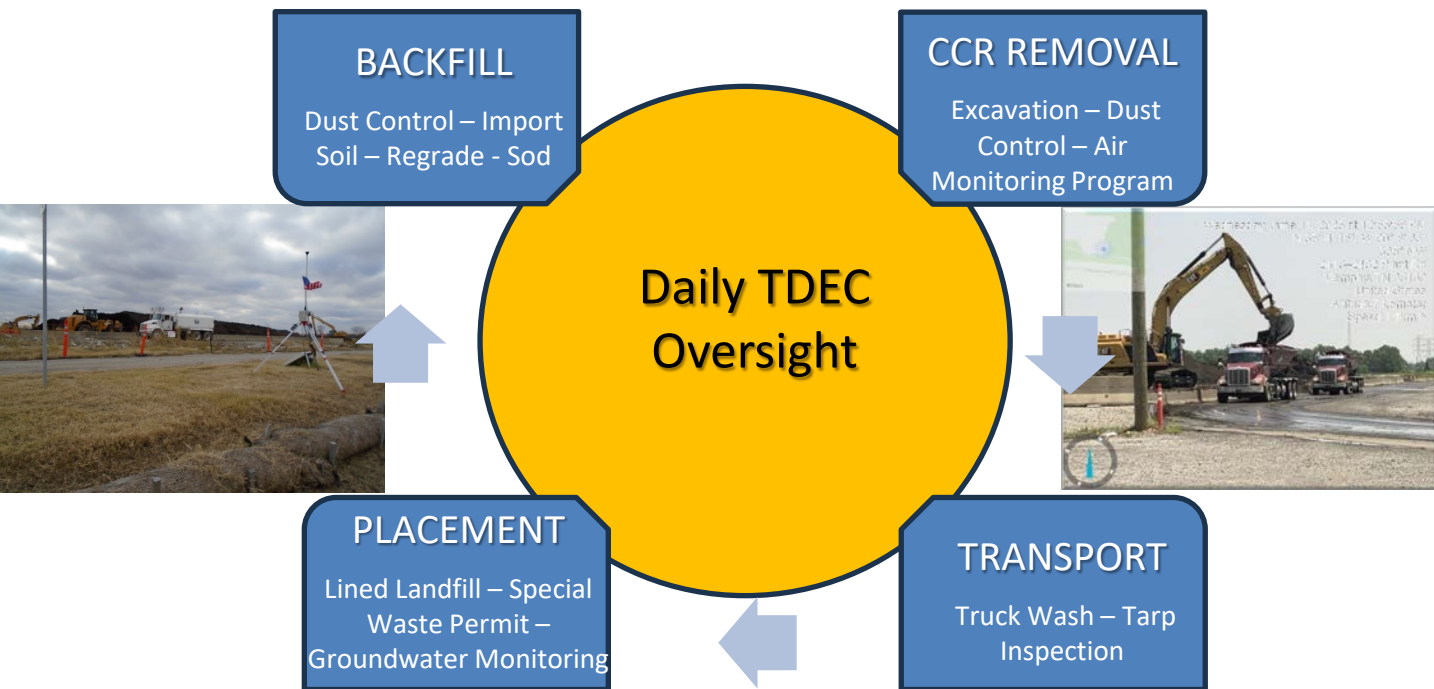
East Ash Disposal Area (EADA) Drawdown, Dewatering, and Stormwater Management



The Lake Tank in the former Stilling Pond area is utilized to assist with dewatering and stormwater management.

- TVA began drawdown and dewatering of the EADA in late 2019
- Between January 2024 and December 2024 TVA treated and discharged ~53 million gallons of water at the site meeting all NPDES discharge requirements
- This volume includes pore water from dewatering wells and stormwater.

Closure By Removal (CBR) Process



West Ash Disposal Area (November 2021 - November 2023)



March 2021

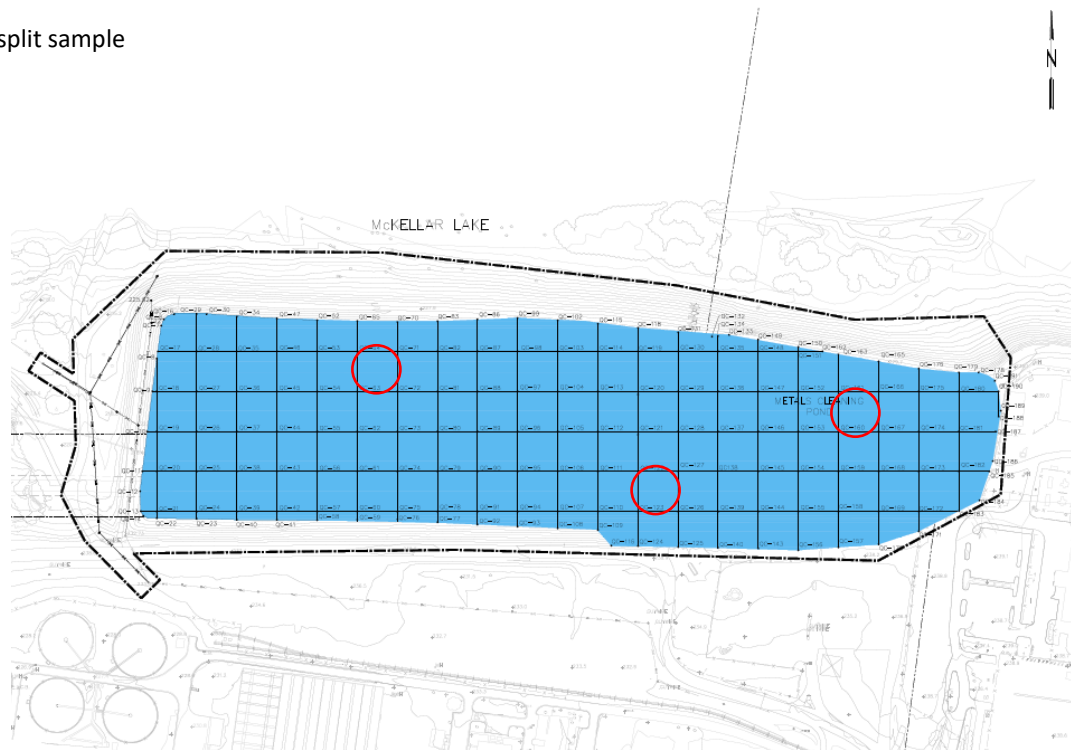
- 510,000 cubic yards of CCR were removed
- North and West Dikes lowered, new outlet ditches
- Sod was placed to stabilize the surface



January 2025

West Ash Disposal Area Quality Control Grids

○ TDEC split sample



East Ash Disposal Area



March 2021

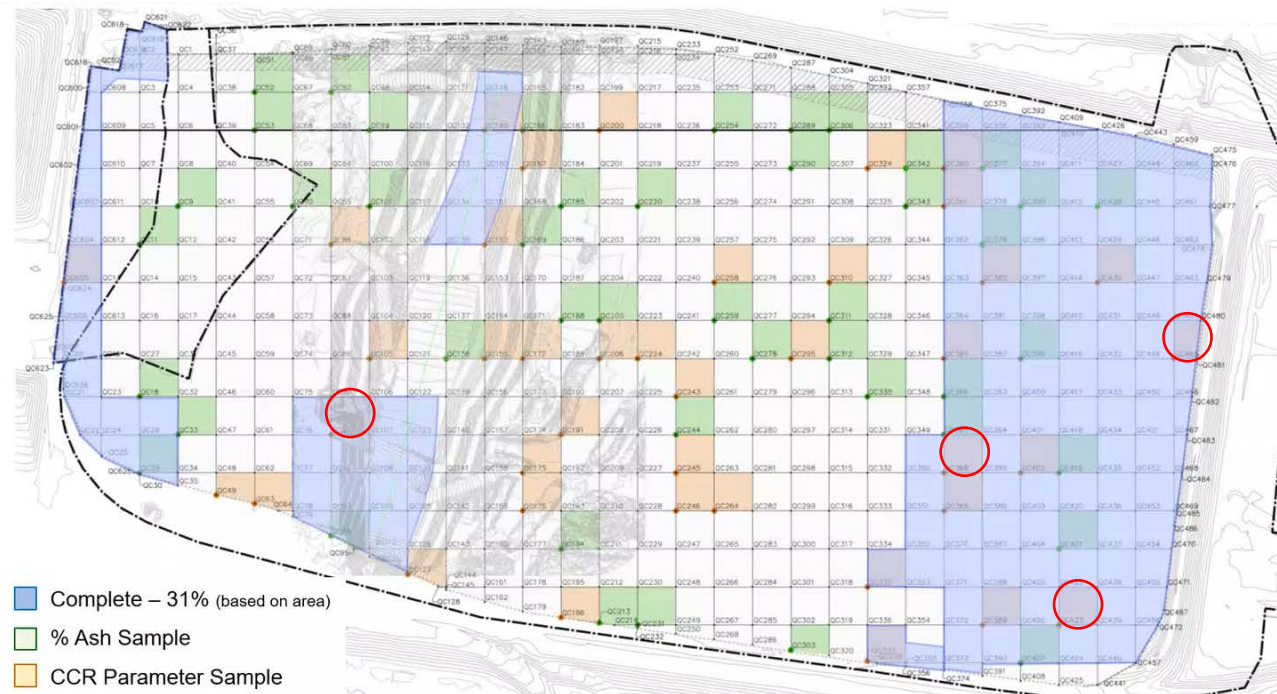
- Approximately 947,000 cubic yards of CCR have been removed as of June 30, 2025
- Sod was placed in the northern portion of the former Stilling Pond to stabilize the surface



June 2025

East Ash Disposal Area Quality Control Grids

○ TDEC split sample



CCR Removal - Air Monitoring Program



10 Permanent 24-Hour Perimeter Air Monitoring Stations

7 Work Area Air Monitoring Stations that change based on wind direction



CCR Removal - Air Monitoring Program

TVA Dust Hotline: 1-844-TVA-DUST



CCR Removal – Transportation



Tarp coverings are inspected prior to staging in loadout area



Haul trucks at the loadout area while a water truck maintains dust control



Haul trucks are manually pressure washed prior to the tire wash, a 2nd tarp observation station and scales prior to leaving the site

CCR Removal – Backfill, Regrading and Sod Placement



Compacting and grading borrow material



Trucks offloading borrow material along the former stilling pond area

This aerial photograph shows the upper portion of the site. A road runs horizontally across the middle. Several monitoring wells are marked with blue dots and labels: PMW-02A, PMW-02B, PMW-07A, PMW-02B, PMW-02C, EW-N03, PMW-04A, PMW-04B, EW-N01, EW-N04, PMW-07A, PMW-07B, PMW-07C, PMW-04A, PMW-04B, PMW-04C, AEF-203, AEF-204, AEF-205, AEF-206, AEF-207, AEF-208, AEF-209, AEF-210, AEF-211, AEF-212, AEF-213, AEF-214, AEF-215, AEF-216, AEF-217, AEF-218, AEF-219, AEF-220, AEF-221, AEF-222, AEF-223, AEF-224, AEF-225, AEF-226, AEF-227, AEF-228, AEF-229, AEF-230, AEF-231, AEF-232, AEF-233, AEF-234, AEF-235, AEF-236, AEF-237, AEF-238, AEF-239, AEF-240, AEF-241, AEF-242, AEF-243, AEF-244, AEF-245, AEF-246, AEF-247, AEF-248, AEF-249, AEF-250, AEF-251, AEF-252, AEF-253, AEF-254, AEF-255, AEF-256, AEF-257, AEF-258, AEF-259, AEF-260, AEF-261, AEF-262, AEF-263, AEF-264, AEF-265, AEF-266, AEF-267, AEF-268, AEF-269, AEF-270, AEF-271, AEF-272, AEF-273, AEF-274, AEF-275, AEF-276, AEF-277, AEF-278, AEF-279, AEF-280, AEF-281, AEF-282, AEF-283, AEF-284, AEF-285, AEF-286, AEF-287, AEF-288, AEF-289, AEF-290, 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Groundwater Treatment System



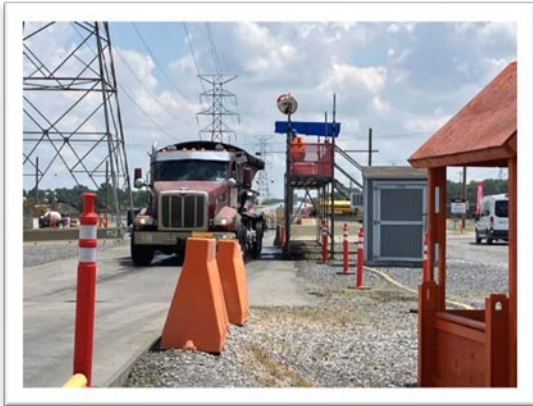
Began operation in February 2023 and as of June 2025 has extracted and treated 31 million gallons of impacted groundwater

The groundwater treatment process includes two primary steps: coagulation / coprecipitation and filtration.



Path Forward

- Continue ash removal – EADA to be complete Fall 2029
- Continue groundwater treatment
- Corrective Action/Risk Assessment (CARA) Plan for WADA
- Continue quarterly groundwater monitoring





Department of
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Conservation**

Robert S. Wilkinson, P.G., CHMM

Deputy Director

Division of Remediation

Davy Crockett Tower, 7th Floor

500 James Robertson Parkway

Nashville, TN 37243

Cell: (615) 598-3272

Robert.S.Wilkinson@tn.gov

www.tn.gov/environment