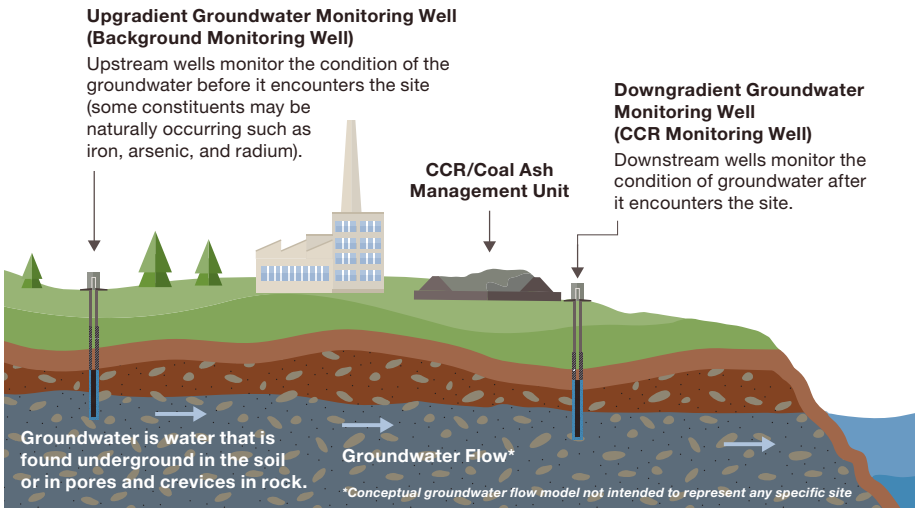
Groundwater Monitoring: Colbert Fossil Plant

Ensuring the protection of water resources

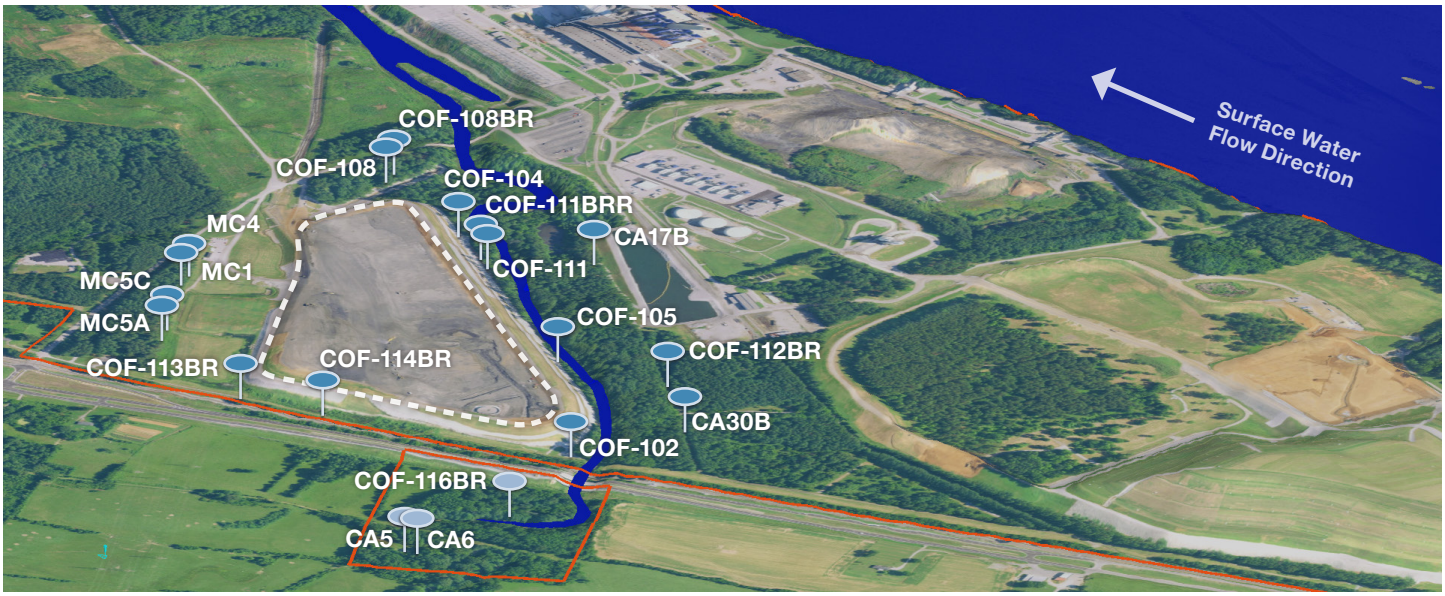
Why We Monitor

As part of our commitment to environmental stewardship and in compliance with state and federal regulations, TVA continues to monitor the groundwater quality at the site to ensure water resources are not impacted by our coal ash management units. This fact sheet summarizes TVA's CCR Rule groundwater monitoring program and provides the most recent results reported under federal regulations. There are more monitoring wells for other monitoring programs at the site which are not included in this fact sheet.



How We Monitor

We maintain a robust network of monitoring wells that we sample regularly for groundwater quality. Many of the constituents in coal ash are naturally occurring in rocks and soil, which makes it important to understand groundwater quality before it reaches the site. That's why we typically install monitoring wells both before and after groundwater reaches the site. We proactively report the results to regulators and post the results on the TVA website.



Background Monitoring Well
CCR Monitoring Well
CCR Unit Subject to CCR Rule
TVA Property Boundary

Image shown is a rendering, well locations are approximate.

Results of Assessment Monitoring for Midyear 2026*

Midyear 2026		GROUNDWATER QUALITY MONITORING WELL LOCATIONS							
		Background Well	CCR Monitoring Wells – Alluvium						
Constituent	GWPS mg/L	CA5	COF-102	COF-104	COF-105	COF-108	COF-111	MC4	MC5A
Antimony	0.006	●	●	●	●	●	●	●	●
Arsenic	0.01	●	●	●	●	●	●	●	●
Barium	2	●	●	●	●	●	●	●	●
Beryllium	0.004	●	●	●	●	●	●	●	●
Cadmium	0.005	●	●	●	●	●	●	●	●
Chromium	0.1	●	●	●	●	●	●	●	●
Cobalt	0.006	●	●	●	●	●	●	●	●
Fluoride	4	●	●	●	●	●	●	●	●
Lead	0.015	●	●	●	●	●	●	●	●
Lithium	0.04	●	●	●	●	●	●	●	●
Mercury	0.002	●	●	●	●	●	●	●	●
Molybdenum	0.1	●	●	●	●	●	●	●	●
Rad226+228	5 pCi/L	●	●	●	●	●	●	●	●
Selenium	0.05	●	●	●	●	●	●	●	●
Thallium	0.002	●	●	●	●	●	●	●	●

Midyear 2026		GROUNDWATER QUALITY MONITORING WELL LOCATIONS								
		Background Wells		CCR Monitoring Wells – Bedrock						
Constituent	GWPS mg/L	CA6	COF-116BR	MC1	MC5C	COF-112BR	COF-113BR	COF-114BR	CA17B	CA30B
Antimony	0.006	●	●	●	●	●	●	●	●	●
Arsenic	0.01	●	●	●	●	●	●	●	●	●
Barium	2	●	●	●	●	●	●	●	●	●
Beryllium	0.004	●	●	●	●	●	●	●	●	●
Cadmium	0.005	●	●	●	●	●	●	●	●	●
Chromium	0.1	●	●	●	●	●	●	●	●	●
Cobalt	0.006	●	●	●	●	●	●	●	●	●
Fluoride	4	●	●	●	●	●	●	●	●	●
Lead	0.015	●	●	●	●	●	●	●	●	●
Lithium	0.0729	●	●	●	●	●	●	●	●	●
Mercury	0.002	●	●	●	●	●	●	●	●	●
Molybdenum	0.1	●	●	●	●	●	●	●	●	●
Rad226+228	5.52 pCi/L	●	●	●	●	●	●	●	●	●
Selenium	0.05	●	●	●	●	●	●	●	●	●
Thallium	0.002	●	●	●	●	●	●	●	●	●

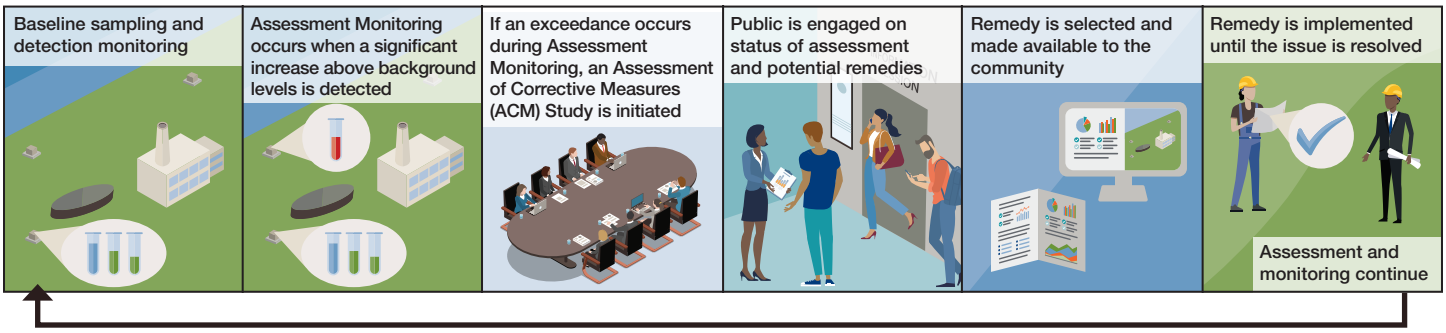
Color Coding Key

- ● Monitoring data results are below groundwater protection standards (GWPS)
- ● Monitoring data results exceed GWPS (TVA completed assessment of corrective measures report)

* The results shown here are representative of the results of the 2026 Midyear Update on Statistically Significant Levels (SSLs) Memorandum submitted on June 26, 2026, and may not be the most recent documented results.

Monitoring and Remedy Process Under Federal Regulations

Below are the steps that TVA takes to understand groundwater conditions and resolve any issues that are detected as a part of our robust monitoring.



Should action be required to address an issue, the public is notified and corrective measures are taken. As the issue is resolved, monitoring continues. This is a cycle that continues as part of our robust monitoring program.

Next Steps

TVA will continue to monitor and assess groundwater testing results and take the steps necessary to preserve and protect the quality of the environment and surrounding community.

TVA will not waver from our commitment to protecting water resources.