Groundwater Protection Standard Exceedance Notification

Chesterfield Power Station – Upper Ash Pond
Chester, Virginia

Until the last few years, coal had been the primary source of electric generation in Virginia and in the U.S. generally. As we now transition to the cleaner energy sources of the future we will continue to be responsible for managing coal ash to ensure a clean and safe environment for the communities we call home.

This notification provides groundwater sampling results for Chesterfield Upper Ash Pond. There are no impacts to drinking water or public health. Likewise, historical water sampling in the James River and Farrar Gut demonstrate aquatic life as well as recreational activities (swimming, boating, fishing, etc.) continue to be protected.

Dominion Energy takes these results very seriously. Any impact or potential impact to our environment has our full attention. We are committed to doing any clean-up necessary in accordance with all federal and state regulations, but more importantly we are committed to doing what is right.

Groundwater protection standards (GWPS) for the Chesterfield Power Station Upper Ash Pond (Upper Ash Pond) were established in accordance with the federal Coal Combustion Residual (CCR) Rule on November 1, 2018. The CCR rule establishes the requirements for GWPS and measures to be taken to address groundwater conditions at ash impoundments and landfills. Groundwater samples were collected from the Upper Ash Pond's groundwater monitoring network, which consists of twenty-seven (27) monitoring wells and analyzed for the twenty-one (21) required CCR constituents. The analytical results were then compared to GWPS. The table below summarizes constituents that were detected at a concentration above the CCR Rule GWPS

The wells in which these constituents were above GWPS are located inside the Chesterfield Power Station property. Groundwater within the property and downgradient of the property is not used as drinking water and as such does not present a risk to drinking water quality.

CCR Rule Groundwater Protection Standard Exceedances

Constituent	GWPS (parts per billion)	Aquifer	Downgradient Monitoring Well(s)	Concentration (parts per billion)
Arsenic	19.8	Columbia	MW-8R	21.8
			MW-13	172
			MW-17S	25.9
	17.8	Potomac	MW-4	31.6
Cobalt	7.4	Columbia	MW-2	9.77
			MW-3	11.0
			MW-5	25.4

Constituent	GWPS (parts per billion)	Aquifer	Downgradient Monitoring Well(s)	Concentration (parts per billion)
Cobalt	7.4	Columbia	MW-11	7.95
			MW-12	14.1
			MW-13	56.4
			MW-15	45.4
			MW-16	20.0
			MW-17S	12.3
	6.9	Potomac	MW-1D	11.4
			MW-4	57.0
			MW-6D	79.1
			MW-10	13.6
Lithium	40	Columbia	MW-5	42.4
			MW-13	111
			MW-16	108
		Potomac	MW-4	62.8
			MW-6	135
			MW-6D	225
Radium 226 & 228	5	Columbia	MW-1	7.86
			MW-2	6.75
		Potomac	MW-1D	6.26

The Commonwealth of Virginia adopted by reference the October 4, 2016 version of the federal CCR rule 40 CFR §257 into 9VAC20-81-800 of the Virginia Solid Waste Management Regulations. Amendments to 40 CFR §257 after October 4, 2016 were not incorporated into Virginia CCR rules (9VAC20-81-800). As a result, health-based GWPSs adopted under the August 29, 2018 Phase 1, Part 1 amendment to the CCR Rule are not applicable to 9VAC20-81-800. As stated above, groundwater within the property and downgradient of the property is not used as drinking water and these concentrations do not represent a risk to human health or the environment for the same reasons as described above.

Virginia CCR Rule Groundwater Protection Standard Exceedances

Constituent	GWPS (parts per billion)	Aquifer	Downgradient Monitoring Well(s)	Concentration (parts per billion)
Arsenic	19.8	Columbia	MW-8R	21.8
			MW-13	172
			MW-17S	25.9
	17.8	Potomac	MW-4	31.6
Cobalt	7.4	Columbia	MW-2	9.77
			MW-3	11.0
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Cobalt	7.4	Columbia	MW-12	14.1
			MW-13	56.4
			MW-15	45.4
			MW-16	20.0
			MW-17S	12.3
	6.9	Potomac	MW-1D	11.4
			MW-4	57.0
			MW-6D	79.1
			MW-10	13.6
Lead	1[(1)]	Potomac	MW-4	7.54
Lithium	50[(1)]	Columbia	MW-13	111
			MW-16	108
		Potomac	MW-4	62.8
			MW-6	135
			MW-6D	225
Molybdenum	10[(1)]	Columbia	MW-3	97
			MW-13	12.1
			MW-16	12.6
		Potomac	MW-3D	13.0
Radium 226 & 228	5	Columbia	MW-1	7.86
			MW-2	6.75
		Potomac	MW-1D	6.26

(1) = Values represent highest laboratory quantitation limit (QL) for the constituent based on background data. Future QL values are subject to change; however, GWPS cannot be less than the value listed.