

DWR Data from Ash Release at Duke Energy Dan River Station
DOWNSTREAM OF RELEASE AT VIRGINIA LINE

Parameter	Report # Dissolved Units Hg 1631	Sampling Dates and Sample ID																				Above standard or screening level									
		2/3/2014	2/4/2014	2/5/2014	2/6/2014	2/7/2014	2/8/2014	2/9/2014	2/10/2014	2/11/2014	2/17/2014		2/18/2014	2/19/2014	2/20/2014	2/21/2014	2/26/2014	3/5/2014	3/12/2014	Applicable Water Quality Standard	Basis for Standard										
		AC04607	AC04665	AC04676	AC04731	AC04811	AC04837	AC04854	AC04880	AC04972	AC05053#	AC05068	AC05112	AC05221	AC05259	AC05357	AC05568	AC05798	AC06100												
		NS	NS	AC04677	AC04733	AC04813	AC04838	AC04855	AC04881	AC04973	NS	AC05069	AC05113	AC05222	AC05260	AC05358	AC05569	AC05799	AC06102												
		NS	NS			AC04818	AC04847	AC04867	AC04926	NS	NS	AC05096	AC05122	AC05238	AC05269	AC05367			AC06148												
Chloride	mg/L	14	14	12	12	10	9.2	10	10	8.3	14	13	14	12	10	6.9				230	Aquatic Life										
Fluoride	mg/L	0.4 UJ2	0.4 UJ2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		1.8	Aquatic Life															
NH3 as N	mg/L			0.02	0.03	0.02	0.02	0.02	0.02 U	0.02 U	0.02 U																				
NO2 plus NO3 as N	mg/L	0.44	0.40	0.33	0.34	0.32	0.30	0.31	0.31	0.33																					
P:Total P	mg/L	0.14	0.14	0.07	0.06	0.04	0.04	0.03	0.02	0.03																					
Residue_Suspended	mg/L	329	256	66	40	24	17	11	12 U.P.	11	52	38	27	110	238	98	17	9.2	18	N											
Residue_Total	mg/L			150	107	90	84	78		80	126	136	111	156	274	164	78	66		N											
Sulfate	mg/L	5.1	4.7	3.6	4.1	5.9	5.6	5.8	5.3	4.4	4.1	4.0	4.8	3.5	7.2																
Total Dissolved Solids	mg/L									74	59	80	78	77	69	62															
TKN as N	mg/L	0.58	0.41	0.34	0.29	0.20	0.20	0.2 U	0.20	0.24																					
Turbidity	NTU			45	35	23	12	8.8	10	11		30	27	30	85	75				50	Aquatic Life										
Aluminum_Al	ug/L	5800	4900	2000	1500	940	680	470	430	440	1700	2000	1500	2000	4700	3400	880	500	1200	87*	Aquatic Life										
Antimony_Sb	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U											640 **	Human Health										
Arsenic_As	ug/L	13	10	2.6	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10	Human Health														
Barium_Ba	ug/L	210	170	67	45	35	33	30	28	28	39	42	35	62	99	63				200,000	Human Health										
Beryllium_Be	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U											6.5	Aquatic Life										
Boron_B	ug/L	170	140	90	120	110	140	140	110	92	90	110	74	50 U	50 U					750,000	Aquatic Life										
Cadmium_Cd	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2	Aquatic Life											
Calcium_Ca	mg/L	10	9.1	8.1	7.4	7.7	7.8	8.2	7.9	7.0	7.1	7.2	7.3	6.3	6.4																
Chromium_Cr	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50	Aquatic Life										
Cobalt_Co	ug/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U											4	Human Health										
Copper_Cu	ug/L	19	16	4.2	3.2	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.6	2.3	2.0 U	4.1	7.3	3.8	2.0 U	2.0 U	2.0 U	7	Aquatic Life										
Iron_Fe	ug/L	3500	3400	2400	1800	1300	1100	850	810	770	2100	2200	1800	2600	6000	4700	1200	770	1400	1000	Aquatic Life										
Lead_Pb	ug/L	7.9	6.5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.2	5.1	2.7				25	Aquatic Life															
Lithium_Li	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U																						
Magnesium_Mg	mg/L	3.7	3.4	3.2	2.8	2.9	3.0	3.0	3.0	3.0	2.9	2.9	2.9	3.1	3.1	3.0															
Manganese_Mn	ug/L	65	63	55	34	29	28	24	30	26	42	45	32	67	160	100															
Mercury_Hg 245.1	ug/L	0.20 U	0.20 U	0.20 U	0.20 U		0.20 U	0.20 U	0.20 U											0.012	Aquatic Life										
Mercury_Hg 1631 Low Level	ug/L					0.005	0.003	0.002	0.002			0.006	0.004	0.012	0.021	0.010				0.0029	0.012	Aquatic Life									
Molybdenum_Mo	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U											2000	Human Health										
Nickel_Ni	ug/L	8.9	8.4	2.4	2.0 U	2.0 U	2.0 U	2.0 U	2.8	2.2	4.2	2.5	2.0 U	2.0 U	2.0 U	88	Aquatic Life														
Potassium_K	mg/L	2.8	2.5	2.1	1.8	1.7	1.7	1.6	1.5	1.5	2.1	2.0	1.9	2.0	2.4	2.7															
Selenium_Se	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		5	Aquatic Life										
Silver_Ag	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U											0.06	Aquatic Life										
Sodium_Na	mg/L	7.1	7.0	6.9	5.7	5.4	5.5	5.1	5.1	5.6	7.3	7.2	6.8	5.8	4.8	4.9															
Strontium_Sr</td																															