

**DWR Data from Ash Release at Duke Energy Dan River Station  
Dan R. At Milton**

Lab	Report #	Units/Hg 1631	Sampling Dates and Sample ID											Applicable Water Quality Standard	Basis for Standard		
			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
			AC04840	AC04860	AC04883	AC04975	11:05 AM AC05076	11:10 AM AC05077#	AC05115	AC05224	AC05262	AC05360	AC05571			AC05801	AC06103
Parameter	PQL	AC04841	AC04861	AC04884	AC04976	AC05077	NS	AC05116	AC05225	AC05263	AC05361	AC05572	AC05802	AC06105			
		AC04849	AC04869	AC04928	NS	AC05098	NS	AC05124	AC05240	AC05271	AC05369	NS	NS	AC06151			
Chloride	1.0	mg/L	13	13	12	10	15	15	14	14	12	10			230	Aquatic Life	
Fluoride	0.4	mg/L	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U,P	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U			1.8	Aquatic Life	
NH3 as N	0.02	mg/L	0.04	0.04	0.04	0.06											
NO2 plus NO3 as N	0.02	mg/L	0.34	0.32	0.32	0.33											
P>Total P	0.02	mg/L	0.05	0.04	0.03	0.03											
Residue Suspended	6.2	mg/L	18	16	12	10	54	56	30	43	212	184	18	11	42	N	
Residue Total	12	mg/L	101	94		75	153	134	119	125	248	263	91	79		N	
Sulfate	2.0	mg/L	6.7	5.3	6.4	6.3	5.5	4.5	4.5	5.7	5.0	3.6					
Total Dissolved Solids	12	mg/L			70	73	86		86	87	77	71			58		
TKN as N	0.2	mg/L	0.28	0.20	0.21	0.23											
Turbidity	1.0	NTU	23	17	11	16	50		39	30	120	120			50	Aquatic Life	
Aluminum_Al	50	ug/L	980	750	550	610	2600	2100	1800	2000	4900	5900	1400	540	2600	87*	Aquatic Life
Antimony_Sb	10	ug/L	10 U	10 U	10 U										640 **	Human Health	
Arsenic_As	2.0	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.7	2.5	2.0 U	2.0 U	2.0 U	10	Human Health
Barium_Ba	10	ug/L	40	37	33	32	50	51	40	46	110	95			200,000	Human Health	
Beryllium_Be	5.0	ug/L	5.0 U	5.0 U	5.0 U										6.5	Aquatic Life	
Boron_B	50	ug/L	100	100	120	120	77	77	72	78	65	50 U			750,000	Aquatic Life	
Cadmium_Cd	0.50	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	0.5 U	0.5 U	0.50 U	2	Aquatic Life
Calcium_Ca	0.10	mg/L	8.1	8.3	8.4	8.6	7.2	7.2	7.0	7.0	7.4	6.2					
Chromium_Cr	10	ug/L	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	50	ug/L	50 U	50 U	50 U										4	Human Health	
Copper_Cu	2.0	ug/L	2.2	2.0 U	2.0 U	2.0 U	3.6	3.7	2.2	2.9	9.0	7.7	2.0 U	2.0 U	2.7	7	Aquatic Life
Iron_Fe	50	ug/L	1400	1100	1000	920	2600	2500	2200	2500	4900	6900	1600	870	2800	1000	Aquatic Life
Lead_Pb	2.0	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.3	2.3	2.0 U	2.0 U	5.9	5.4			25	Aquatic Life	
Lithium_Li	25	ug/L	25 U	25 U	25 U												
Magnesium_Mg	0.10	mg/L	3.0	3.1	3.1	3.1	3.0	3.0	3.0	2.9	3.3	3.0					
Manganese_Mn	10	ug/L	40	46	41	41	65	64	49	59	120	170					
Mercury_Hg 245.1	0.2	ug/L	0.20 U	0.20 U	0.20 U										0.012	Aquatic Life	
Mercury_Hg 1631 Low Level	0.001	ug/L	0.004	0.003	0.002		0.010		0.005	0.007	0.023			0.0057	0.012	Aquatic Life	
Molybdenum_Mo	10	ug/L	10 U	10 U	10 U										2000	Human Health	
Nickel_Ni	2.0	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.7	4.6	2.0 U	2.0 U	2.0 U	88	Aquatic Life
Potassium_K	0.10	mg/L	2.0	1.9	1.8	1.7	2.1	2.2	2.1	2.1	2.7	2.4					
Selenium_Se	5.0	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	Aquatic Life	
Silver_Ag	1.0	ug/L	1.0 U	1.0 U	1.0 U										0.06	Aquatic Life	
Sodium_Na	0.10	mg/L	8.9	9.1	6.9	6.7	8.5	8.5	8.1	7.9	7.0	5.6					
Strontium_Sr	10	ug/L	84	89	72	61	52	54	47	50	68	53			40,000	Human Health	
Thallium_Tl	2.0	ug/L	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			0.47 **	Human Health	
Tin_Sn	10	ug/L	10 U	10 U	10 U										800	Human Health	
Titanium_Ti	10	ug/L	61	52	39	21	100	100	70	180	290	340					
Vanadium_V	25	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U					
Zinc_Zn	10	ug/L	10 U	10 U	10 U	10 U	10 U	11	10 U	10 U	13	22	10 U	10 U	12	50	Aquatic Life

U = Indicates that the analyte was analyzed for but not detected above the reported practical quantitation limit.  
J2 = Quality control failure( estimated reported value).

N = Narrative standard per 15A NCAC 02B .0211(3)(c)- Floating solids, settleable solids, or sludge deposits: only such amounts attributable to sewage, industrial wastes or other wastes as shall not make the water unsafe or unsuitable for aquatic life and wildlife or impair the water for any designated uses

\* Aluminum is pH and hardness dependent and is based on National Recommended Water Quality Criteria

\*\* National Recommended Water Quality Criteria

# Sediment sample also taken (AC05427)

No NC standards for dissolved metals