



March 29, 2021

ELECTRONIC SUBMITTAL

S. Daniel Smith
North Carolina Division of Water Resources

Address: desocdata@ncdenr.gov

Subject: Duke Energy Carolinas, LLC
Buck Steam Station / Combined Cycle
EMC SOC WQ S18-004
1st Quarter 2021 - Monitoring Data Results

Dear Mr. Smith:

In accordance with paragraph 2. e. 3) of the NC Environmental Management Commission Special Order by Consent, EMC SOC WQ S18-004, Duke Energy Carolinas, LLC is hereby submitting the monitoring results for the **1st quarter of 2021**.

If you have any questions, please contact Mr. Steve Cahoon (919) 546-7457 or Dale Wooten (704) 630-3086.

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kristopher C Eisenrieth", with a long horizontal line extending to the right.

Kristopher C Eisenrieth
General Manager
Buck Combined Cycle

Duke Energy Carolinas, LLC - Buck Steam Station
Special Order by Consent - SOC No. S18-004
Monitoring Report for 1st Quarter of 2021

SAMPLING LOCATION	Date Sampled	TSS*	Oil and Grease*	pH	Fluoride	Mercury	Barium	Zinc	Arsenic	Boron	Cadmium	Chromium	Copper	Thallium	Lead	Nickel	Selenium	Nitrate/Nitrite as N	Bromides	Sulfates	Chlorides	TDS	Total Hardness	Temperature	Conductivity	
		-	-	-	-	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	-	-	-	-	-	Total	-	-
		mg/L	mg/L	SU	ug/L	ng/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	°C
S-01	3/10/2021	6.8	< 5	7	< 100	1.19	64	< 5	< 1	77	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.08	< 0.1	10	11	101	43.6	9	227	
S-04	3/10/2021	6.7	< 5	6.4	< 100	3.25	58	< 5	< 1	235	< 0.1	< 1	< 1	< 0.2	< 0.2	2.47	< 1	0.03	< 0.1	45	67	267	132	16	420	
S-05	3/10/2021	25	< 5	6.8	< 100	3.83	38	< 5	< 1	549	< 0.1	< 1	< 1	< 0.2	0.257	1.35	< 1	0.14	< 0.1	65	16	204	114	14	333	
S-08	3/10/2021	2.7	< 5	8	< 100	3.83	25	20.3	< 1	112	< 0.1	< 1	< 1	< 0.2	< 0.2	1.43	< 1	0.15	< 0.1	45	14	151	86	7.7	247	
S-09	3/10/2021	< 2.5	< 5	7.3	220	1.63	35	< 5	< 1	722	< 0.1	< 1	2.37	< 0.2	< 0.2	6.17	< 1	0.25	0.36	44	15	197	137	13	320	
Upstream Yadkin	3/10/2021	8.5	< 5	8	< 100	** 1.42	25	< 5	< 1	< 50	< 0.1	< 1	< 1	< 0.2	0.403	< 1	< 1	1.1	< 0.1	4	5.1	61	24.2	10	78	

*Annual Monitoring Only

**Duplicate was gathered at this location and the respective values averaged

Duke Energy Carolinas, LLC - Buck Steam Station
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SAMPLING LOCATION	Date Sampled	TSS*	Oil and Grease*	pH	Fluoride	Mercury	Barium	Zinc	Arsenic	Boron	Cadmium	Chromium	Copper	Thallium	Lead	Nickel	Selenium	Nitrate/Nitrite as N	Bromides	Sulfates	Chlorides	TDS	Total Hardness	Temperature	Conductivity	
		-	-	-	-	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	-	-	-	-	-	Total	-	-
		mg/L	mg/L	SU	ug/L	ng/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	°C
Downstream Yadkin	3/10/2021	6.6	< 5	8.1	< 100	1.04	24	< 5	< 1	< 50	< 0.1	< 1	< 1	< 0.2	0.328	< 1	< 1	1.1	< 0.1	4	5.2	72	23.4	10	77	
Instream S-01 S-04*	3/10/2021	12	< 5	8.1	< 100	2.24	31	< 5	1.97	< 50	< 0.1	1.63	1.53	< 0.2	1.21	< 1	< 1	0.1	< 0.1	5.5	5.9	88	29.6	14	86	
Instream S-05 S-14 S-15*	3/10/2021	30	10.5	8	< 100	1.27	37	< 5	1.49	137	< 0.1	< 1	< 1	< 0.2	0.422	< 1	< 1	0.05	< 0.1	13	11	64	48.7	14	143	

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