



Rogers Energy Complex  
573 Duke Power Road  
 Mooresboro,  
North Carolina 28114

828 657 2000

October 11, 2018

**ELECTRONIC SUBMITTAL**

Ms. Linda Culpepper, Interim Director  
North Carolina Division of Water Resources  
E-mail Address: desocdata@ncdenr.gov

**Subject: Duke Energy Carolinas, LLC  
Rogers Energy Complex  
EMC SOC WQ S17-009  
3rd Quarter 2018 - Monitoring Data Results**

Dear Ms. Culpepper:

In accordance with paragraph 2. e. 3) of the NC Environmental Management Commission Special Order by Consent, EMC SOC WQ S17-009, Duke Energy Carolinas, LLC is hereby submitting the monitoring results for the 3rd quarter of 2018.

If you have any questions, please contact Mr. Robert Wylie (704) 382-4669.

*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 that reads "David P. Barnhardt". The signature is fluid and cursive, with the first name being the most prominent.

David P Barnhardt  
General Manager II  
Rogers Energy Complex  
Cliffside Steam Station  
Fossil/Hydro Operations - Carolinas Coal Generation

Duke Energy Carolinas, LLC - Rogers Energy Complex  
Special Order by Consent - SOC No. S17-009  
Monitoring Report for 3rd Quarter of 2018

| 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          | -           | -            |
|                          |              | 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        | °C           |
| S-02                     | 9/5/2018     |      |                 | 6.6 | < 200    | 0.835   | 30     | < 5   | < 1     | 379   | < 0.1   | < 1      | < 1    | < 0.2    | < 0.2 | 3.46   | < 1      | 0.013                | < 0.2    | 140      | 4.9       | 340  | 229            | 23          | 484          |
| S-07                     | 9/5/2018     |      |                 | 7.0 | < 100    | 1.93    | 33     | < 5   | < 1     | 54    | < 0.1   | < 1      | < 1    | < 0.2    | < 0.2 | < 1    | < 1      | 0.074                | < 0.1    | 0.52     | 11        | 47   | 15.3           | 22          | 63           |
| Upstream in Broad River  | 9/5/2018     |      |                 | 6.7 | < 100    | 0.974   | 15     | < 5   | < 1     | < 50  | < 0.1   | < 1      | < 1    | < 0.2    | 0.282 | < 1    | < 1      | 0.089                | < 0.1    | 1.4      | 1.8       | 34   | 12.6           | 26          | 43           |
| Downstream Broad River   | 9/5/2018     |      |                 | 7.0 | < 100    | 1.15    | 18     | < 5   | 1.15    | 81    | < 0.1   | < 1      | < 1    | < 0.2    | 0.31  | < 1    | < 1      | 0.149                | < 0.1    | 5.2      | 6.4       | 58   | 24.6           | 26          | 78           |
| Upstream in Suck Creek   | 9/5/2018     |      |                 | 6.9 | < 100    | 0.848** | 21     | < 5   | < 1     | < 50  | < 0.1   | < 1      | < 1    | < 0.2    | < 0.2 | < 1    | < 1      | 1.0                  | < 0.1    | 1.1      | 3.8       | 49   | 12.5           | 28          | 51           |
| Downstream in Suck Creek | 9/5/2018     |      |                 | 6.9 | < 100    | 1.37    | 24     | < 5   | < 1     | < 50  | < 0.1   | < 1      | < 1    | < 0.2    | 0.203 | < 1    | < 1      | 0.377                | < 0.1    | 4.6      | 5.6       | 47   | 18.5           | 24          | 63           |

\*Annual Monitoring Only

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