



ROY COOPER  
*Governor*  
MICHAEL S. REGAN  
*Secretary*

## MEMORANDUM

TO: HOUSE AND SENATE MEMBERS WITH COAL ASH PONDS IN THEIR DISTRICTS

FROM: Anderson Miller  
Director of Legislative Affairs

SUBJECT: Coal Combustion Residuals Surface Impoundment in  
Member's Districts

DATE: April 30, 2018

Pursuant to GS 130A-309.204(b), "on or before October 1 of each year, the Department shall report to each member of the General Assembly who has a coal combustion residuals surface impoundment in the member's district. This report shall include the location of each impoundment in the member's district, the amount of coal combustion residuals known or believed to be located in the impoundment, the last action taken at the impoundment, and the date of that last action." Comments concerning the 2017 annual report are as follows:

- All volumes were provided by Duke Energy as of April 26, 2018
- Coal Ash Ponds are sorted by NC House District and NC Senate District
- The table "Summary of Last Action Taken" covers many programs and lists multiple actions in summary fashion

The attached report satisfies this reporting requirement.

If you have any questions or need additional information, please contact me by phone at (919) 707-8618 or via e-mail [anderson.miller@ncdenr.gov](mailto:anderson.miller@ncdenr.gov)

cc: Sheila Holman, Assistant Secretary for Environment, NCDEQ  
Linda Culpepper, Director of Water Resources, NCDEQ



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# **Annual Coal Ash Report to the General Assembly**

## **Division of Water Resources**



**NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**

This report is submitted to meet the requirements of GS 130A-309.204(b) which requires annual reporting on coal combustion residuals surface impoundments in North Carolina.

| Coal Ash Ponds by NC House Districts |                            |                                        |          |                                               |
|--------------------------------------|----------------------------|----------------------------------------|----------|-----------------------------------------------|
| NC House District                    | Facility                   | Ash Pond Name                          | Status*  | April 2018 ash inventory as per Duke (tons)** |
| 2                                    | Mayo Power Station         | Mayo Ash Pond                          | Active   | 6,640,000                                     |
| 2                                    | Roxboro Power Station      | Roxboro West Ash Pond                  | Active   | 12,640,000                                    |
| 2                                    | Roxboro Power Station      | Roxboro East Ash Pond (incl ash stack) | Inactive | 6,990,000                                     |
| 4                                    | Lee Power Station          | H.F. Lee Active Ash Pond               | Inactive | 4,520,000                                     |
| 4                                    | Lee Power Station          | H.F. Lee Ash Polishing Pond            | Inactive | 10,000                                        |
| 10                                   | Lee Power Station          | H.F. Lee Ash Pond 1 (Inactive)         | Inactive | 270,000                                       |
| 10                                   | Lee Power Station          | H.F. Lee Ash Pond 2 (Inactive)         | Inactive | 530,000                                       |
| 10                                   | Lee Power Station          | H.F. Lee Ash Pond 3 (Inactive)         | Inactive | 910,000                                       |
| 18                                   | Sutton Power Station       | Sutton 1971 Ash Pond                   | Inactive | 1,950,000                                     |
| 18                                   | Sutton Power Station       | Sutton 1984 Ash Pond                   | Inactive | 1,110,000                                     |
| 46                                   | Weatherspoon Power Station | Weatherspoon 1979 Ash Pond             | Inactive | 2,320,000                                     |
| 54                                   | Cape Fear Power Station    | Cape Fear 1956 Ash Pond (Inactive)     | Inactive | 420,000                                       |
| 54                                   | Cape Fear Power Station    | Cape Fear 1963 Ash Pond (Inactive)     | Inactive | 860,000                                       |
| 54                                   | Cape Fear Power Station    | Cape Fear 1970 Ash Pond (Inactive)     | Inactive | 840,000                                       |
| 54                                   | Cape Fear Power Station    | Cape Fear 1978 Ash Pond                | Inactive | 830,000                                       |
| 54                                   | Cape Fear Power Station    | Cape Fear 1985 Ash Pond                | Inactive | 2,820,000                                     |
| 65                                   | Dan River Power Station    | Dan River Active Primary Ash Basin     | Inactive | 750,000                                       |
| 65                                   | Dan River Power Station    | Dan River Active Secondary Ash Basin   | Inactive | 390,000                                       |
| 76                                   | Buck Power Station         | Buck Steam Station Basin 1             | Inactive | 3,550 ,000                                    |
| 76                                   | Buck Power Station         | Buck Steam Station Basin 2             | Inactive | 2,000,000                                     |
| 76                                   | Buck Power Station         | Buck Steam Station Basin 3             | Inactive | 860,000                                       |
| 89                                   | Marshall Steam Station     | Marshall Active Ash Basin              | Active   | 16,850,000                                    |
| 91                                   | Belews Creek Steam Station | Belews Creek Active Ash Basin          | Active   | 11,970,000                                    |
| 108                                  | Riverbend Power Station    | Riverbend Primary & Secondary Basins   | Inactive | 180,000                                       |
| 109                                  | Allen Power Station        | Allen Active Ash Basin                 | Active   | 10,480,000                                    |
| 109                                  | Allen Power Station        | Allen Retired Ash Basin                | Inactive | 6,150,000                                     |
| 111                                  | Cliffside Power Station    | Cliffside Active Ash Basin             | Active   | 5,040,000                                     |
| 111                                  | Cliffside Power Station    | Cliffside Inactive Ash Basin 1-4       | Inactive | 0                                             |
| 112                                  | Cliffside Power Station    | Cliffside Inactive Ash Basin #5        | Inactive | 2,350,00                                      |
| 116                                  | Asheville                  | Asheville 1982 Ash Pond                | Inactive | 0                                             |
| 116                                  | Asheville                  | Asheville 1964 Ash Pond                | Active   | 2,340,000                                     |

\* = Active: receiving either sluiced fly ash or bottom ash, Inactive: NOT receiving sluiced fly ash or bottom ash

\*\*= Quantities subject to change based on continuing ash production and ash excavation, as applicable. In addition, detailed in-situ field data acquisition and analysis in support of ash basin closure planning may yield revised ash quantities.

| Coal Ash Ponds by NC Senate Districts |                            |                                      |          |                                               |
|---------------------------------------|----------------------------|--------------------------------------|----------|-----------------------------------------------|
| NC Senate District                    | Facility                   | Ash Pond Name                        | Status*  | April 2018 ash inventory as per Duke (tons)** |
| 7                                     | Lee Power Station          | H.F. Lee Ash Pond 1 (Inactive)       | Inactive | 270,000                                       |
| 7                                     | Lee Power Station          | H.F. Lee Ash Pond 2 (Inactive)       | Inactive | 530,000                                       |
| 7                                     | Lee Power Station          | H.F. Lee Ash Pond 3 (Inactive)       | Inactive | 910,000                                       |
| 7                                     | Lee Power Station          | H.F. Lee Active Ash Pond             | Inactive | 4,520,000                                     |
| 7                                     | Lee Power Station          | H.F. Lee Ash Polishing Pond          | Inactive | 10,000                                        |
| 9                                     | Sutton Power Station       | Sutton 1971 Ash Pond                 | Inactive | 1,950,000                                     |
| 9                                     | Sutton Power Station       | Sutton 1984 Ash Pond                 | Inactive | 1,110,000                                     |
| 13                                    | Weatherspoon Power Station | Weatherspoon 1979 Ash Pond           | Inactive | 2,320,000                                     |
| 22                                    | Mayo Power Station         | Mayo Ash Pond                        | Active   | 6,640,000                                     |
| 22                                    | Roxboro Power Station      | Roxboro West Ash Pond                | Active   | 12,640,00                                     |
| 22                                    | Roxboro Power Station      | Roxboro East Ash Pond                | Inactive | 6,990,000                                     |
| 23                                    | Cape Fear Power Station    | Cape Fear 1956 Ash Pond (Inactive)   | Inactive | 420,000                                       |
| 23                                    | Cape Fear Power Station    | Cape Fear 1963 Ash Pond (Inactive)   | Inactive | 860,000                                       |
| 23                                    | Cape Fear Power Station    | Cape Fear 1970 Ash Pond (Inactive)   | Inactive | 840,000                                       |
| 23                                    | Cape Fear Power Station    | Cape Fear 1978 Ash Pond              | Inactive | 830,000                                       |
| 23                                    | Cape Fear Power Station    | Cape Fear 1985 Ash Pond              | Inactive | 2,820,000                                     |
| 26                                    | Dan River Power Station    | Dan River Active Primary Ash Basin   | Inactive | 750,000                                       |
| 26                                    | Dan River Power Station    | Dan River Active Secondary Ash Basin | Inactive | 390,000                                       |
| 30                                    | Belews Creek Steam Station | Belews Creek Active Ash Basin        | Active   | 11,970,000                                    |
| 34                                    | Buck Power Station         | Buck Steam Station Basin 1           | Inactive | 3,550 ,000                                    |
| 34                                    | Buck Power Station         | Buck Steam Station Basin 2           | Inactive | 2,000,000                                     |
| 34                                    | Buck Power Station         | Buck Steam Station Basin 3           | Inactive | 860,000                                       |
| 42                                    | Marshall Steam Station     | Marshall Active Ash Basin            | Active   | 16,850,000                                    |
| 43                                    | Allen Power Station        | Allen Active Ash Basin               | Active   | 10,480,00                                     |
| 43                                    | Allen Power Station        | Allen Retired Ash Basin              | Inactive | 6,150,000                                     |
| 44                                    | Riverbend Power Station    | Riverbend Primary & Secondary Basins | Inactive | 180,000                                       |
| 46                                    | Cliffside Power Station    | Cliffside Active Ash Basin           | Active   | 5,040,000                                     |
| 46                                    | Cliffside Power Station    | Cliffside Inactive Ash Basin 1-4     | Inactive | 0                                             |
| 47                                    | Cliffside Power Station    | Cliffside Inactive Ash Basin #5      | Inactive | 2,350,000                                     |
| 48                                    | Asheville                  | Asheville 1982 Ash Pond              | Inactive | 0                                             |
| 48                                    | Asheville                  | Asheville 1964 Ash Pond              | Active   | 2,340,000                                     |

\* = Active: receiving either sluiced fly ash or bottom ash, Inactive: NOT receiving sluiced fly ash or bottom ash

\*\*= Quantities subject to change based on continuing ash production and ash excavation, as applicable. In addition, detailed in-situ field data acquisition and analysis in support of ash basin closure planning may yield revised ash quantities.

| Summary of Last Action Taken       |                                                                                                                                                                                           |                     |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Ash Pond Name                      | Last action taken                                                                                                                                                                         | Date of last action |
| Allen Active Ash Basin             | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit.                                                                       | In progress         |
| Allen Retired Ash Basin            | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit.                                                                       | In progress         |
| Asheville 1982 Ash Pond            | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; basin excavated; dam decommissioning complete.                        | In progress         |
| Asheville 1964 Ash Pond            | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; basin under excavation; slope improvement of separator dike complete. | In progress         |
| Belews Creek Active Ash Basin      | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; groundwater extraction well system operating.                         | In progress         |
| Buck Steam Station Basin 1         | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit.                                                                       | In progress         |
| Buck Steam Station Basin 2         | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit.                                                                       | In progress         |
| Buck Steam Station Basin 3         | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; modification of existing dam spillway and extending discharge outlet. | In progress         |
| Cape Fear 1956 Ash Pond (Inactive) | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit.                                                                       | In progress         |
| Cape Fear 1963 Ash Pond (Inactive) | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit.                                                                       | In progress         |
| Cape Fear 1970 Ash Pond (Inactive) | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit.                                                                       | In progress         |
| Cape Fear 1978 Ash Pond            | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; dewatering basin.                                                     | In progress         |
| Cape Fear 1985 Ash Pond            | Continued site assessment activities; installation of alternate water supplies draft modification to NPDES permit; dewatering basin.                                                      | In progress         |

|                                      |                                                                                                                                                                                                                             |             |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Cliffside Active Ash Basin           | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit.                                                                                                         | In progress |
| Cliffside Inactive Ash Basin #5      | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit.                                                                                                         | In progress |
| Cliffside Inactive Ash Basin 1-4     | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; basins excavated; dam modification; proposed construction of a wastewater storage basin within the dam. | In progress |
| Dan River Active Primary Ash Basin   | Continued site assessment activities; installation of alternate water supplies; permit issued October 2016; basin under excavation; dam decommissioning (sequence A).                                                       | In progress |
| Dan River Active Secondary Ash Basin | Continued site assessment activities; installation of alternate water supplies; permit issued October 2016.                                                                                                                 | In progress |
| H.F. Lee Ash Pond 1 (Inactive)       | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; slope repair complete.                                                                                  | In progress |
| H.F. Lee Ash Pond 2 (Inactive)       | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; slope repair complete.                                                                                  | In progress |
| H.F. Lee Ash Pond 3 (Inactive)       | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; slope repair complete.                                                                                  | In progress |
| H.F. Lee Active Ash Pond             | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; decanting basin; slope repair in progress.                                                              | In progress |
| H.F. Lee Ash Polishing Pond          | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; decanting basin.                                                                                        | In progress |
| Marshall Active Ash Basin            | Continued site assessment activities; installation of alternate water supplies, NPDES permit issued April 2, 2018.                                                                                                          | In progress |
| Mayo Ash Pond                        | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit.                                                                                                         | In progress |
| Riverbend Active Ash Basin 1         | Continued site assessment activities; alternate water supplies not required; NPDES permit issued November 18, 2016; basin under excavation; dam modification and decommissioning.                                           | In progress |
| Riverbend Active Ash Basin 2         | Continued site assessment activities; alternate water supplies not required; NPDES permit issued November 18, 2016; basin under excavation; dam decommissioning.                                                            | In progress |

|                            |                                                                                                                                                                                                                       |             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Roxboro West Ash Pond      | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; dam slope modification.                                                                           | In progress |
| Roxboro East Ash Pond      | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit.                                                                                                   | In progress |
| Sutton 1971 Ash Pond       | Continued site assessment activities; installation of alternate water supplies; NPDES permit issued September 30, 2017; basin under excavation; groundwater extraction well system installation; dam decommissioning. | In progress |
| Sutton 1984 Ash Pond       | Continued site assessment activities; installation of alternate water supplies; NPDES permit issued September 30, 2017; basin under excavation; groundwater extraction well system installation; dam decommissioning. | In progress |
| Weatherspoon 1979 Ash Pond | Continued site assessment activities; installation of alternate water supplies; draft modification to NPDES permit; under excavation for beneficial reuse.                                                            | In progress |