

**Annual Report to the  
North Carolina General Assembly**

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***Animal Waste Management***

**July 1, 2017 – June 30, 2018**

**Division of Water Resources**



**NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Department of Environmental Quality  
Annual Report on Animal Waste Management  
Permitting, Inspection and Compliance Activities  
July 1, 2017 through June 30, 2018**

The Department of Environmental Quality reports annually to the Environmental Review Commission and Fiscal Research Division on the permitting, inspection and compliance activity of animal waste operations of the Animal Feeding Operation program across the state, per G.S. 143-215.10M. Accounting for activities required under G.S. 143-215.10F and S.L. 1997-443 (and its subsequent amendments) is also included in this report.

General Statute 143-215.10F requires annual inspection of every permitted animal operation by the N.C. Division of Water Resources (DWR). As required by S.L. 1997-443, the Division of Soil and Water Conservation (DSWC) has been conducting compliance inspections at swine operations in Brunswick, Columbus, Jones and Pender counties. This is often referred to as the Pilot Program. Effective July 1, 2011, DSWC is a division of the Department of Agriculture and Consumer Services. Session Law 2011-145 eliminated the requirement for DSWC to perform annual operations reviews at each permitted animal operation and removed funding for the operations reviews. As a result, DWR conducts all routine animal operation inspections except for those facilities located in the above-mentioned pilot counties. DSWC continues to perform pilot program inspections under S.L. 1997-443, and provides technical assistance and operation review inspections upon request.

The tables below indicate the number of inspections performed by DWR and DSWC, the number of violations identified during inspections, enforcement actions initiated, and permits issued July 1, 2017 through June 30, 2018.

Overall, the two divisions conducted 2,571 compliance inspections and operation reviews during the 2017-2018 fiscal year throughout the seven regional offices (Table 1). Routine compliance inspections were conducted at over 95 percent of all permitted animal operations. Regional office abbreviations are explained at the end of this document.

**Table 1. Inspection activities of DWR and DSWC staff during the 2017-2018 fiscal year**

INSPECTIONS	ARO	FRO	MRO	RRO	WAR O	WIRO	WSRO	State Totals
<b>DWR Total number of inspections completed</b>	<b>104</b>	<b>788</b>	<b>105</b>	<b>220</b>	<b>417</b>	<b>592</b>	<b>145</b>	<b>2371</b>
Routine DWR annual compliance inspections	20	751	67	208	390	501	103	2040
Inspections conducted due to complaints	79	20	36	2	14	44	29	224
Follow-up of previous review or inspection	3	12	0	4	4	19	9	51
Emergency Notification	0	0	0	0	3	6	0	9
Lagoon Evaluations	0	2	0	3	5	0	0	10
Other inspections	2	3	2	3	1	22	4	37
<b>DSWC Total number of compliance inspections completed*</b>					<b>52</b>	<b>123</b>		<b>175</b>
Routine DSWC annual compliance inspections					40	115		155
Inspections conducted due to complaints					1	1		2
Follow-up of previous review or inspection					0	0		0
Emergency Notification					0	0		0
Response to DWR referral					1	1		2
Other inspections					10	6		16
<b>DSWC Total number of operation reviews completed</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>16</b>	<b>0</b>	<b>25</b>
Routine operation reviews	0	0	0	0	0	0	0	0
Technical Assistance	0	0	0	0	2	15	0	17
Follow-up of previous review or inspection	0	0	0	0	0	0	0	0
Emergency Notification	0	0	0	0	0	0	0	0
Other inspections	2	0	0	0	5	1	0	8
<b>Totals</b>	<b>106</b>	<b>788</b>	<b>105</b>	<b>220</b>	<b>476</b>	<b>731</b>	<b>145</b>	<b>2571</b>
<b>Total number of Permitted Animal Facilities</b>	<b>18</b>	<b>734</b>	<b>69</b>	<b>212</b>	<b>505</b>	<b>668</b>	<b>91</b>	<b>2297</b>
<b>Average time for Compliance inspection (Minutes)</b>	<b>73</b>	<b>71</b>	<b>90</b>	<b>54</b>	<b>64</b>	<b>56</b>	<b>100</b>	<b>73</b>
<b>Average time for other inspections (Minutes)</b>	<b>60</b>	<b>114</b>	<b>180</b>	<b>36</b>	<b>96</b>	<b>68</b>	<b>67</b>	<b>89</b>

\*Pilot Project, S.L. 1997-443 and subsequent amendments.

Table 2 presents the total number of animal permits issued by DWR regional offices in FY 2017-18. This number includes new projects and any modifications made to existing permits, including renewals. Approximately 2,022 farms are covered under state general permits. Other facilities are covered by National Pollutant Discharge Elimination System (NPDES) general permits or state individual permits. All permits for animal operations must be renewed every five years. The NPDES general permits were renewed on July 1, 2017. The current state general permits expire Sept. 30, 2019, and the renewal process will occur in the 180 days leading up to that date.

**Table 2. Permits issued by DWR for animal operations in each Regional Office during July 1, 2017 through June 30, 2018\***

<b>ANIMAL OPERATIONS PERMITS ISSUED</b>	<b>ARO</b>	<b>FRO</b>	<b>MRO</b>	<b>RRO</b>	<b>WARO</b>	<b>WIRO</b>	<b>WSRO</b>	<b>State Totals</b>
<b>Swine</b>	0	35	0	11	26	42	2	<b>116</b>
<b>Cattle</b>	3	0	9	4	0	0	5	<b>21</b>
<b>Poultry</b>	0	0	1	0	0	0	0	<b>1</b>
<b>Horses</b>	0	0	0	0	0	0	0	<b>0</b>
<b>Manure Hauler</b>	0	1	0	0	0	0	2	<b>3</b>
<b>Totals</b>	<b>3</b>	<b>36</b>	<b>10</b>	<b>15</b>	<b>26</b>	<b>42</b>	<b>9</b>	<b>141</b>

\* Includes modifications, renewals, and new projects

Tables 3 and 5 provide a summary by regional office of numbers and types of deficiencies and violations found during DWR and DSWC inspections over the past fiscal year. Some violations were self-reported and are included in the table to provide a complete picture of the number of deficiency or violation letters issued.

**Table 3. Regional office deficiencies and violations found during DWR and DSWC inspections during FY 2017-18.**

<b>DEFICIENCIES AND VIOLATIONS IDENTIFIED</b>	<b>ARO</b>	<b>FRO</b>	<b>MRO</b>	<b>RRO</b>	<b>WARO</b>	<b>WIRO</b>	<b>WSRO</b>	<b>State Totals</b>
<b>Deficiencies and Violations found during DSWC operations reviews and DWR inspections*</b>	6	30	20	8	26	59	28	<b>177</b>
<b>Number of facilities receiving notice deficiency**</b>	2	25	7	19	26	53	5	<b>137</b>
<b>Number of facilities receiving notice violation**</b>	1	6	8	4	31	12	5	<b>67</b>
<b>Enforcement actions initiated for violations noted during this year***</b>	0	3	2	2	6	4	3	<b>20</b>

\*Violation totals include violations noted during both operation reviews and compliance inspections and may include multiple violations at a single facility.

\*\*Some violation letters were sent due to violations that were self-reported, and not discovered during an inspection. Deficiencies and violations also includes failure to pay annual fees.

\*\*\*Some enforcement actions being developed by the regional staff are normally not shown as actions initiated during that year. These actions will be included in the next annual report.

Approximately seven percent of the 2,571 inspections identified violations (Table 4). There were 177 violations identified (less than one percent of the universe of potential violations). Inadequate freeboard, unpermitted discharges from the systems and evidence of over application were the most common violations and deficiencies (Tables 4 – 6). Cattle and swine facilities had the highest number of violations and deficiencies among the types of animal operations (Table 6). Note: each inspection includes seven major items for review. There is the potential for a total of 17,997 major violations.

**Table 4. Breakdown of specific violations discovered during DWR and DSWC inspections during FY 2017-2018**

DEFICIENCIES AND VIOLATIONS IDENTIFIED	Total number of inspections with identified problem	Percent of total problems identified	Percent of total inspections completed (2571)
Discharges from Animal Waste Management System	34	19.2%	1.3%
Of the total discharges identified, the number of discharges that reached surface waters of the state	(26)	(14.7%)	(1.0%)
Inadequate Freeboard (Permitted Farms)	53	29.9%	2.1%
Of the total inspections identified with inadequate freeboard, the number of inspections with freeboard noted at less than 1 foot	(16)	(9.0%)	(0.6%)
No Certified Operator in Charge	0	0.0%	0.0%
Evidence of over application	38	21.5%	1.5%
Does not meet setbacks	12	6.8%	0.5%
Inadequate land	3	1.7%	0.1%
Crop differs from that stated in Certified Animal Waste Management Plan	37	20.9%	1.4%
<b>Totals*</b>	177	100.0%	6.9%

**Table 5. Deficiencies and violations discovered during DWR and DSWC inspections by regional office during FY 2017-2018**

DEFICIENCIES AND VIOLATIONS IDENTIFIED	ARO	FRO	MRO	RRO	WARO	WIRO	WSRO	State Totals
Discharges from Animal Waste Management System	5	7	0	3	5	11	3	34
Of the total discharges identified, the number of discharges that reached surface waters of the state	(2)	(4)	(0)	(3)	(4)	(11)	(2)	(26)
Inadequate Freeboard (Permitted Farms)	0	11	2	4	4	16	16	53
Of the total inspections identified with inadequate freeboard, the number of inspections with freeboard noted at less than 1 foot	(0)	(4)	(1)	(1)	(1)	(3)	(6)	(16)
No Certified Operator in Charge	0	0	0	0	0	0	0	0
Evidence of over application	1	8	0	1	7	17	4	38
Does not meet setbacks	0	1	0	0	1	9	1	12
Inadequate land	0	0	0	0	3	0	0	3
Crop differs from that stated in Certified Animal Waste Management Plan	0	3	18	0	6	6	4	37
<b>Totals</b>	6	30	20	8	26	59	28	177

**Table 6. Deficiencies and violations found during inspection by DWR and DSWC at each type of animal operation during FY 2017-2018**

DEFICIENCIES AND VIOLATIONS IDENTIFIED	Swine	Cattle	Poultry	Other	State Totals
Discharges from Animal Waste Management System	24	6	1	3	34
Of the total discharges identified, the number of discharges that reached surface waters of the state	(20)	(3)	(1)	(2)	(26)
Inadequate Freeboard (Permitted Farms)	35	18	0	0	53
Of the total inspections identified with inadequate freeboard, the number of inspections with freeboard noted at less than 1 foot	(8)	(8)	(0)	(0)	(16)
No Certified Operator in Charge	0	0	0	0	0
Evidence of over application	33	5	0	0	38
Does not meet setbacks	11	1	0	0	12
Inadequate land	3	0	0	0	3
Crop differs from that stated in Certified Animal Waste Management Plan	15	22	0	0	37
<b>Totals</b>	<b>121</b>	<b>52</b>	<b>1</b>	<b>3</b>	<b>177</b>
<b>Total Number of Animal Operations</b>	<b>2094</b>	<b>179</b>	<b>19</b>	<b>5</b>	<b>2297</b>

**Table 7. Civil penalty assessment for different types of violations**

Civil Penalty Assessments	ARO	FRO	MRO	RRO	WARO	WIRO	WSRO	TOTALS
Stipulated Penalties (SP)	0	0	0	0	0	0	0	0
Limit/Monitoring Violation (LM)	0	0	0	0	0	0	0	0
Limit Violations (LV)	0	0	0	0	0	0	0	0
Monitoring Violations (MV)	0	0	0	0	0	0	0	0
Fish Kills (FK)	0	0	0	0	0	0	0	0
Operator Violations (OV)	0	0	0	0	0	0	0	0
Renewal Violations (RV)	0	0	0	0	0	0	0	0
Construction Violations (CV)	0	0	0	0	0	0	0	0
Discharge Violations (DV)	0	3	0	1	0	2	2	8
Operating Without Permits (OP)	0	0	0	0	0	0	0	0
Late Annual Reports (LA)	0	0	0	0	0	0	0	0
Late Monthly Reports (LR)	0	0	0	0	0	0	0	0
Permit Conditions Violations (PC)	0	0	2	1	6	2	1	12
Stream Standard Violations (SS)	0	0	0	0	0	0	0	0
Other Water Quality Violations (WQ)	0	0	0	0	0	0	0	0
Groundwater Standard Violations (GW)	0	0	0	0	0	0	0	0
Total Civil Penalty Assessments	0	3	2	2	6	4	3	20

**Table 8. Summary of enforcement actions.**

<b>Civil Penalty Case Summary</b>	<b>ARO</b>	<b>FRO</b>	<b>MRO</b>	<b>RRO</b>	<b>WARO</b>	<b>WIRO</b>	<b>WSRO</b>	<b>Totals</b>
Penalties assessed (\$) includes enforcement costs	\$0.00	\$21,614.16	\$11,305.04	\$7,542.33	\$84,884.88	\$22,001.99	\$13,880.55	\$161,228.95
Penalties reduced via settlement (\$)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00
Penalties collected (\$)	\$0.00	\$7,530.76	\$9,692.04	\$471.33	\$4,940.88	\$6,281.58	\$9,073.90	\$37,990.49
Remissions (\$)	\$0.00	\$1,500.00	\$1,613.00	\$4,000.00	\$0.00	\$500.00	\$0.00	\$7,613.00
Remitted cases	0	1	2	1	0	1	0	5
OAH cases	0	0	0	0	0	0	1	1
AGO cases (collection)	0	1	0	0	4	1	0	6

*Regional Office Abbreviations:*

- ARO – Asheville Regional Office
- FRO – Fayetteville Regional Office
- MRO – Mooresville Regional Office
- RRO – Raleigh Regional Office
- WARO – Washington Regional Office
- WIRO – Wilmington Regional Office
- WSRO – Winston-Salem Regional Office