

3.01.1.4b

Poultry House Construction

Applicability:

1. Construction is for one or more poultry houses and associated structures including generator and pump structures, compost structures and manure storage structures. Other agricultural structures should comply with 3.01.1.4a.
2. Poultry house layout, including the general dimensions of structures, roadways and loading areas, as well as spacing between structures will adhere to Exhibit 1.

Conditions:

1. Nutrient management plan recommendations will be followed for the project, during construction and throughout the life of the project.
2. To the maximum extent practicable, runoff from impervious surfaces including roof, roadways, and loading areas will be conveyed to an ephemeral wetland forebay. Ephemeral wetland forebay volume calculations based on the appropriate sizing table, Tables 1, 2, or 3, will be submitted.
3. A detention basin will be provided to manage the runoff from the Conveyance (Cv) and Flooding (Fv) events. For poultry houses constructed where there is no forest clearing, the volume of the detention basin may be included in the ephemeral wetland forebay to make one detention structure. Detention basin volume calculations based on the appropriate sizing table, Tables 1, 2, or 3, will be submitted.
4. Vegetated stabilization will be completed in accordance with Department recommendations for poultry house construction.
5. Construction site stormwater management best management practices will be used.
6. Construction projects exceeding 1.0 acre of total disturbance require submittal of a Notice of Intent (NOI) for Stormwater Discharges Associated with Construction Activity. A plan fulfilling Stormwater Pollution Prevention Plan (SWPPP) requirements must be developed to obtain general permit coverage for Stormwater Discharges Associated with Construction Activity.

NEW CASTLE COUNTY
STORMWATER STORAGE REQUIREMENTS - HSG A SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	8500	8350	35875
2-House	17000	16675	71750
3-House	25500	25025	107625
4-House	34000	33350	143500
Per 1000 SF Impervious*	200	205	410

* Area to be captured by Ephemeral Wetland Forebay.

STORMWATER STORAGE REQUIREMENTS - HSG B SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	7500	9575	21900
2-House	15000	19125	43800
3-House	22500	28700	65700
4-House	30000	38250	87575
Per 1000 SF Impervious*	150	195	220

* Area to be captured by Ephemeral Wetland Forebay.

STORMWATER STORAGE REQUIREMENTS - HSG C SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	5250	9575	9050
2-House	10500	19125	18075
3-House	15750	28700	27125
4-House	21000	38250	36150
Per 1000 SF Impervious*	120	160	115

* Area to be captured by Ephemeral Wetland Forebay.

STORMWATER STORAGE REQUIREMENTS - HSG D SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	3875	8775	5250
2-House	7750	17550	10500
3-House	11625	26325	15750
4-House	15500	35075	21000
Per 1000 SF Impervious*	100	135	75

* Area to be captured by Ephemeral Wetland Forebay.

Table 1

KENT COUNTY

STORMWATER STORAGE REQUIREMENTS - HSG A SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	9125	8350	41825
2-House	18250	16675	83650
3-House	27375	25025	125475
4-House	36500	33350	167300
Per 1000 SF Impervious*	200	205	465

* Area to be captured by Ephemeral Wetland Forebay.

STORMWATER STORAGE REQUIREMENTS - HSG B SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	6500	9575	22850
2-House	13000	19125	45700
3-House	19500	28700	68550
4-House	26000	38250	91400
Per 1000 SF Impervious*	150	195	245

* Area to be captured by Ephemeral Wetland Forebay.

STORMWATER STORAGE REQUIREMENTS - HSG C SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	5250	9575	9900
2-House	10500	19125	19775
3-House	15750	28700	29675
4-House	21000	38250	39550
Per 1000 SF Impervious*	120	160	125

* Area to be captured by Ephemeral Wetland Forebay.

STORMWATER STORAGE REQUIREMENTS - HSG D SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	4000	8775	5475
2-House	8000	17550	10950
3-House	12000	26325	16425
4-House	16000	35075	21900
Per 1000 SF Impervious*	100	135	80

* Area to be captured by Ephemeral Wetland Forebay.

Table 2

SUSSEX COUNTY

STORMWATER STORAGE REQUIREMENTS - HSG A SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	9375	8350	43750
2-House	18750	16675	87500
3-House	28125	25025	131250
4-House	37500	33350	175000
Per 1000 SF Impervious*	200	205	480

* Area to be captured by Ephemeral Wetland Forebay.

STORMWATER STORAGE REQUIREMENTS - HSG B SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	6625	9575	23700
2-House	13250	19125	47400
3-House	19875	28700	71100
4-House	26500	38250	94800
Per 1000 SF Impervious*	150	195	250

* Area to be captured by Ephemeral Wetland Forebay.

STORMWATER STORAGE REQUIREMENTS - HSG C SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	5250	9575	10300
2-House	10500	19125	20625
3-House	15750	28700	30925
4-House	21000	38250	41250
Per 1000 SF Impervious*	120	160	130

* Area to be captured by Ephemeral Wetland Forebay.

STORMWATER STORAGE REQUIREMENTS - HSG D SOILS

<i>Layout</i>	Cropland Disturbance <i>Forebay/Detention Combo (cf)</i>	Forest Disturbance	
		<i>Forebay (cf)</i>	<i>Detention Basin (cf)</i>
1-House	3875	8775	5580
2-House	7750	17550	11160
3-House	11625	26325	16740
4-House	15500	35075	22320
Per 1000 SF Impervious*	100	135	80

* Area to be captured by Ephemeral Wetland Forebay.

Table 3

The plan fulfilling SWPPP requirements will include the following:

- A north arrow
- Parcel information, including the following:
 - Site address or location
 - Tax parcel ID
 - Parcel size in acres
 - Wetland delineation line, if applicable
 - Floodplain line, if applicable
 - Tax ditch rights-of-way, if applicable
 - Building setback line
 - NRCS description of site soils
- Project information, including the following:
 - Estimated disturbed area
 - Site discharge location and receiving waters
 - Estimated construction start and completion dates
 - Proposed grading
 - Construction sequence, including notification, pre-construction meeting, construction of perimeter controls, construction of forebay and detention basin, vegetative stabilization and submittal of Notice of Termination.
 - Construction site stormwater BMP standard details, including construction site waste management and spill control and concrete washout
 - Vegetated stabilization requirements
 - General construction notes
- Owner contact information
- Signed owner certification, including certification that a responsible person (Blue Card Holder) shall implement the Plan fully through daily oversight of the construction while land disturbing activity is taking place
- Signature and seal of licensed design professional
- Plan view of project at a maximum scale of 1"=50' to include:
 - Layout with dimensions of poultry houses and associated structures, roadways, loading areas
 - A 2-foot wide gravel diaphragm to be constructed along both sides of each individual poultry house to stabilize the dripline from the roof
 - Conveyance swales having a flat bottom width of 8 feet
 - Ephemeral wetland forebay with dimensions and elevations. Volume computations may be submitted separately.
 - If applicable, detention basin with dimensions and elevations. Volume computations may be submitted separately.
- Cross section through poultry houses, roadways, and conveyance swales between houses.
- Profile through ephemeral wetland forebay and detention basin including forebay inlet, overflow weir and site discharge location. When the site discharges via a closed pipe, the minimum diameter will be 18 inches. The invert elevations of the discharge pipe will be provided on the plan.