

NPDES Compliance Inspection Manual

Appendix A1



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Appendix AI – Sample Permitted CAFO Inspection Checklist

SAMPLE PERMITTED CAFO INSPECTION CHECKLIST PERMITTED CAFO SITE INSPECTION FORM

GENERAL INFORMATION:

NPDES Permit No.:	NPDES Permit Expiration Date: __/__/__
Facility ID # _____	Inspector _____
Facility Name _____	Date _____
Facility Owner _____	Time in _____
Facility Operator _____	Time out _____
Mailing Address _____ _____	Weather _____
Physical Address _____ _____	GPS Reading (at gate) North _____
County _____	²⁸ West _____
Contact Person _____	Section _____
Phone (office) _____ (cell) _____	Township _____
(fax) _____	Range _____
E-mail _____	Does the facility owner/operator own and/or operate any other animal feeding operations? Y or N
Persons Present During Inspection _____ _____ _____	If yes provide name(s) and address(es) and indicate whether the facility is an AFO or a CAFO _____ _____ _____

²⁸ Longitude reading should be a negative number (i.e., -105.2356).

Max. Animals Confined per Month _____ Max. Capacity of Facility _____ Permitted Capacity of Facility _____ Number of animals today (all animals in production area):	Location and name of nearest surface water ²⁹ and description of flow path _____ _____ _____		
	# confined		# confined
Cattle		Sheep	
Dairy mature		Dairy heifers	
Swine (≥55#)		Swine (<55#)	
Turkeys		Laying hens	
Other chickens		Other (specify)	
<input type="checkbox"/> Presented credentials? (check if yes)			
<input type="checkbox"/> Aerial image attached? (check if yes) Source and date: _____			
<input type="checkbox"/> Inspection photos attached? (check if yes)			
<input type="checkbox"/> Potential compliance issues? (check if yes and summarize below)			
_____ _____ _____ _____ _____ _____			

²⁹ Surface water means all waters of the United States.

INSPECTION OBSERVATIONS:

Production Area						
1. List impoundments (attach additional sheet(s), if needed)						
Impoundment ID	Wastewater Type	Wastewater Source(s)	Pumping level ³⁰ (from staff gauge)	Wastewater below pumping level?	Max. recorded level	Date of max. recorded level
	<input type="checkbox"/> process generated <input type="checkbox"/> runoff			Y or N		
	<input type="checkbox"/> process generated <input type="checkbox"/> runoff			Y or N		
	<input type="checkbox"/> process generated <input type="checkbox"/> runoff			Y or N		
	<input type="checkbox"/> process generated <input type="checkbox"/> runoff			Y or N		
	<input type="checkbox"/> process generated <input type="checkbox"/> runoff			Y or N		
	<input type="checkbox"/> process generated <input type="checkbox"/> runoff			Y or N		
	<input type="checkbox"/> process generated <input type="checkbox"/> runoff			Y or N		
2. Impoundment(s) collect all runoff from:						
Y N n/a	Animal confinement areas? ³¹					
Y N n/a	Manure storage areas? ³²					
Y N n/a	Raw material storage areas? ³³					
Y N n/a	Waste containment areas? ³⁴					
Y N n/a	Egg washing or egg processing facility?					
Y N n/a	Mortality storage, handling, treatment or disposal area?					

³⁰ The pumping level represents the minimum capacity necessary to contain runoff and direct precipitation from the 25-year, 24-hour rainfall event (40 CFR Part 412.37(a)(2)).

³¹ Animal confinement area includes but is not limited to open lots, housed lots, feedlots, confinement houses, stall barns, free stall barns, milkrooms, milking centers, cowyards, barnyards, medication pens, walkers, animal walkways, and stables (40 CFR Part 122.23(b)(8)).

³² Manure storage area includes but is not limited to lagoons, runoff ponds, storage sheds, stockpiles, under house or pit storages, liquid impoundments, static piles, and composting piles (40 CFR Part 122.23(b)(8)).

³³ Raw materials storage area includes but is not limited to feed silos, silage bunkers, and bedding materials (40 CFR Part 122.23(b)(8)).

³⁴ The waste containment area includes but is not limited to settling basins, and areas within berms and diversions which separate uncontaminated storm water (40 CFR Part 122.23(b)(8)).

Y N n/a	Other? (describe): _____ <ul style="list-style-type: none">• If no, describe non-retained areas: _____ _____
Y N n/a	3. Was manure or wastewater observed in a waterway? If yes, describe: _____ _____
Y N n/a	4. Adequate storage available for manure, litter, and process wastewater, and procedures are in place to ensure proper operation and maintenance of the storage facilities? [Part 122.42(e)(1)(i)]] _____ _____
Y N n/a	5. Confined animals do not have direct contact with waters of the United States? [Part 122.42(e)(1)(iv)] _____ _____
Y N n/a	6. Clean water is diverted from the production area? [Part 122.42(e)(1)(iii)] _____ _____
Production Area (continued)	
Y N n/a	7. Chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system? [Part 122.42(e)(1)(v)] _____ _____
<i>Additional Production Area Requirements for Large Dairy Cow, Cattle, Swine, Poultry, and Veal Calf CAFOs (Subparts C and D)</i>	
Y N n/a	8. All open surface impoundments and terminal storage tanks have depth markers which clearly indicate the minimum capacity necessary to contain the runoff and direct precipitation of the 25-year, 24-hour rainfall event? [Part 412.37(a)(2)] _____ _____

Y N n/a 9. Mortalities remain on the production area until disposal, are not disposed in liquid manure or process wastewater treatment systems, and are handled to prevent discharge of pollutants to surface waters? [Part 412.37(a)(4)]

Production area comments:

Land Application Sites

Y N n/a 10. Does the facility apply manure or wastewater to land owned by or under the operational control of the CAFO?

- Number of land application sites:

- Irrigation type(s):

- Furrow/flood irrigation sites – what is fate of applied wastewater and tailwater?

Y N n/a 11. Was manure/wastewater applied in accordance with the procedures and protocols identified in the NMP? (*spot check records for one for one field to complete the information below.*)

If no, describe:

Field ID:		Acreage:		P Index:		Calculations based on: <input type="checkbox"/> N or <input type="checkbox"/> P	
		Calculated*		Applied			
		Gal. or Tons (specify)	Lbs. N or P	Gal. or Tons (specify)	Lbs. N or P		
Rates of application:	Liquid						
	Slurry						
	Solid						
Total Lbs. N or P that may be applied and that were applied:							
*If rates are calculated for more than one form, are the rates <input type="checkbox"/> additive (e.g. slurry <i>and</i> solid) or <input type="checkbox"/> exclusive (e.g., slurry <i>or</i> solid)?							

*****Copy record(s) including rate calculations, land application records and any other relevant documentation.*****

Land application site comments:

Land application site comments (continued):

Monitoring, Documentation and Recordkeeping

Does the facility maintain records of the following for 5 years?

- Y N n/a 12. The completed permit application? [Part 412.37(b)]
- Y N n/a 13. The current design of manure storage structures, including volume of solids accumulation, design treatment volume, total design volume, and approximate number of days of storage capacity? [Part 412.37(b)(5)]
- Y N n/a 14. The date, time, and estimated volume of any overflow? [Part 412.37(b)(6)]
- Y N n/a 15. Manure and process wastewater transfers, including the most current nutrient analysis of the manure or wastewater that was provided to the recipient, the date and approximate amount transferred, and the name and address of the recipient? [Part 122.42(e)(3)]
 - Y N n/a a. Name of recipient
 - Y N n/a b. Address of recipient
 - Y N n/a c. Date of transfer
 - Y N n/a d. Approximate amount transferred (tons/gallons)
 - Y N n/a e. Recent (12 months or less) manure nutrient analysis provided

Additional Production Area Records for Large Dairy Cow, Cattle, Swine, Poultry, and Veal Calf CAFOs

- 16. Documentation of daily and weekly visual inspections of the production area, including:
 - Y N n/a a. Weekly inspection of stormwater diversions, waste storage structures, and process wastewater channeling devices? [Part 412.37(b)(1)]
 - Y N n/a b. Daily inspection of water lines? [Part 412.37(b)(1)]
 - Y N n/a c. Weekly inspection of impoundments and tanks? [Part 412.37(b)(1)]
- Y N n/a 17. Weekly records of the depth of manure and process wastewater in liquid impoundments and terminal tanks? [Part 412.37(b)(2)]
- Y N n/a 18. Documentation of actions taken to correct deficiencies found as a result of production area inspections? [Part 412.37(b)(3)]

Y N n/a	19. Documentation of mortalities management? [Part 412.37(b)(4)]
<i>Land Application Area Records for Large Dairy Cow, Cattle, Swine, Poultry, and Veal Calf CAFOs</i>	
Y N n/a	20. Expected crop yields? [Part 412.37(c)(1)]
Y N n/a	21. Date(s) manure or process wastewater is applied to each land application site? [Part 412.37(c)(2)]
Y N n/a	22. Weather conditions at the time of, and for 24 hours prior to and following, land application? [Part 412.37(c)(3)]
Y N n/a	23. Test methods used to sample and analyze manure, process wastewater, and soil? [Part 412.37(c)(4)]
Y N n/a	24. Results from manure, process wastewater, and soil analyses? [Part 412.37(c)(5)]
Y N n/a	25. Manure and process wastewater application rates determined in accordance with the technical standards? [Part 412.37(c)(6)]
Y N n/a	26. Calculations showing the total N and P to be applied to each land application site, including sources other than manure or process wastewater? [Part 412.37(c)(7)]
Y N n/a	27. Total amount of N and P actually applied to each land application site, including calculations? [Part 412.37(c)(8)]
Y N n/a	28. Method used to apply manure and process wastewater? [Part 412.37(c)(9)]
Y N n/a	29. Date(s) of manure application equipment inspections for leaks? [Part 412.37(c)(10)]
<i>Monitoring, Documentation and Recordkeeping comments:</i>	
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Nutrient Management Plan (NMP)

Required NMP Element [Part 122.42(e)(1)]

- | | | |
|---------|-----|---|
| Y N n/a | 30. | Is the facility’s NMP available on-site? Does it reflect the current operational characteristics and practices? [Part 122.42(e)(2)(ii)]

Date developed or last revised: _____ |
| Y N n/a | 31. | Ensure adequate storage of manure and process wastewater, including operation and maintenance procedures. |
| Y N n/a | 32. | Ensure proper management of animal mortalities. |
| Y N n/a | 33. | Ensure that clean water is diverted, as appropriate, from the production area. |
| Y N n/a | 34. | Prevent direct contact of confined animals with surface waters. |
| Y N n/a | 35. | Ensure proper disposal of chemicals and other contaminants. |
| Y N n/a | 36. | Identify site-specific conservation practices to control runoff of pollutants |
| Y N n/a | 37. | Identify protocols for manure, process wastewater, and soil sampling and testing. |
| Y N n/a | 38. | Establish protocols to land apply manure or process wastewater in accordance with site-specific nutrient management practices that ensure appropriate agricultural utilization of the nutrients in the manure, litter, or process wastewater. |
| Y N n/a | 39. | Identify specific records that will be maintained to document the implementation and management of the minimum NMP elements (#36-#43 above). |

Additional NMP Requirements for Large Dairy Cow, Cattle, Swine, Poultry, and Veal Calf CAFOs

- | | | |
|---------|-----|---|
| Y N n/a | 40. | Application rates are calculated as required by Part 412.4(c)(2) |
| Y N n/a | 41. | Specifies the manure, process wastewater, and soil sampling at the required frequencies and for the required parameters? [Part 412.4(c)(3)]
<i>(manure/wastewater annually for P & N, soils at least every 5 years for phosphorus transport)</i> |
| Y N n/a | 42. | Includes periodic inspection of land application equipment? [Part 412.4(c)(4)] |

FACILITY MAP



PHOTOS

<i>Photo No.</i>	<i>Description</i>

Inspector: _____

Date: _____

Date Inspection Report was Finalized: _____

Date Report was Sent to Facility: _____