BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:

CONCENTRATED ANIMAL FEEDING)	
OPERATIONS (CAFOS): PROPOSED)	R 2012-023
AMENDMENTS TO 35 ILL. ADM. CODE)	
501, 502 AND 504)	

NOTICE OF ELECTRONIC FILING

To: Attached Service List

PLEASE TAKE NOTICE that on October 17, 2012, I electronically filed with the Clerk of the Pollution Control Board of the State of Illinois: "ENVIRONMENTAL GROUPS' PROPOSED AMENDMENTS TO 35 Ill. ADM. CODE PARTS 501 and 502", on behalf of Prairie Rivers Network, Illinois Citizens for Clean Air and Water, Natural Resources Defense Council and Environmental Law & Policy Center (collectively, "Environmental Groups"). Copies are attached hereto and herewith served upon you. These proposed changes are submitted in response to the Agency's proposed amendments submitted to the Board on March 1, 2012. The Environmental Groups' changes, including deletion and addition of text, are shown in red. Support for the proposed changes will be presented through witness testimony and subsequent comments filed on the rule.

Respectfully Submitted,

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Chicago, IL 60601 312-795-3747

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE E: AGRICULTURE RELATED POLLUTION CHAPTER I: POLLUTION CONTROL BOARD

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${\it Electronic Filing-Received, Clerk's Office, 10/17/2012}$

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501.406	Inspections and Disease Prevention

SUBPART D: SUBMITTAL OF INFORMATION

Section

501.505 Requirements for Certain CAFOs to Submit Information

Appendix: A References to Previous Rules

AUTHORITY: Implementing and authorized by Sections 9, 12, 13, 21, 22 and 27 of the Environmental Protection Act [415 ILCS 5/9, 5/12, 5/13, 5/21, 5/22 and 5/27](III. Rev. Stat. 1989, ch. 111 1/2, pars. 1009, 1012, 1013, 1021, 1022 and 1027).

SOURCE: Filed and effective January 1, 1978; amended at 2 Ill. Reg. 44, p. 137, effective October 30, 1978; codified at 7 Ill. Reg. 10592; amended in R90-7 at 15 Ill. Reg. 10075, effective July 1, 1991; amended at 36 Ill. Reg. , effective _____.

SUBPART A: AUTHORITY AND POLICY

Section 501.103 Organization of this Chapter

The Board regulations adopted in 35 Illinois Administrative Code Subtitle E: Agriculture Related Pollution, Chapter I: Pollution Control Board are organized as provided in this Section.

Part 501 of this Chapter contains definitions and incorporations by reference applicable to Parts 501, 502 and 503 which are the Parts of this Chapter administered by the Environmental Protection Agency. Subpart C of Part 501 also contains the requirements applicable to all Livestock Waste Handling Facilities and Livestock Management Facilities whether or not those facilities are defined as Animal Feeding Operations (AFOs) or Concentrated Animal Feeding

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Operations (CAFOs) and without regard to whether the facility is subject to National Pollutant Discharge Elimination System (NPDES) permitting requirements.

Part 502 of this Chapter identifies which AFOs are subject to NPDES permit requirements and specifies those requirements. Part 502 also provides the state technical standards applicable to permitted CAFOs. This Part also contains requirements applicable to land application activities from AFOs which are defined as Large CAFOs and are not permitted under an NPDES permit.

Part 503 of this Chapter contains the requirements applicable to fish and aquatic animal production facilities, irrigation activities, and silvicultural activities and sources.

The Part 506 rules implement the Livestock Management Facilities Act [510 ILCS 77]. These rules and the Livestock Management Facilities Act are administered by the Illinois Department of Agriculture.

(Sou	rce: Added at 3	86 III. Rea	. effective

Section 501.104 Severability

If any provision of these rules or regulations is adjudged invalid, or if the application thereof to any person or in any circumstance is adjudged invalid, such invalidity shall not affect the validity of this chapter as a whole, or of any part, subpart, sentence or clause thereof not adjudged invalid.

(Source: Added at 36 III. Reg, effective	(Source: /	Addedat36 I	II. Reg.	, effective
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SUBPART B: DEFINITIONS AND INCORPORATIONS

Section 501.200 Incorporations by Reference

a) The Board incorporates the following material by reference:

ASABE ASAE. Available from American Society of Agricultural and Biological Engineers, 2950 Niles Road, St. Joseph, MI 49085–9659 (616-429-6300) (269-429-0300), fax 269-429-3852, hq@asabe.org.

- "Management Control of Manure Odors," ASAE <u>EP379.4EP379.1</u> (January 2007)(December 1986).
- "Design of Anaerobic Lagoons for Animal Waste Management," <u>ASABEASAE EP403.4 EP403.1 (R2011)(March 1990)</u>.
- "Illinois Agronomy Handbook, 24th Edition," University of Illinois, College of Agriculture, Consumer and Environmental Sciences. Urbana, IL, July 2009.
- "Livestock Waste Facilities Handbook, Third Edition," MWPS-18. MidWest Plan Service. April 1993.

- "Manure Characteristics," Section 1. Second Edition MWPS-18. MidWest Plan Service. 2004.
- "Recommended Chemical Soil Test Procedures for the North Central Region,"

 North Central Regional Publication No.221, Missouri Agricultural Experiment
 Station Bulletin SB 1001 (January 1998). North Central Region-University of

 Missouri Soil Testing Lab, 23 Mumford Hall, University of Missouri
 Columbia, MO 65211.
- "Average Crop, Pasture, and Forestry Productivity Ratings for Illinois Soils; Bulletin No. 810," University of Illinois, College of Agricultural, Consumer and Environmental Sciences Office of Research (2000), revised January 15, 2011 to amend Table 2 for B810.
- "Optimum Crop Productivity Ratings for Illinois Soils; Bulletin 811,"

 University of Illinois, College of Agricultural, Consumer and Environmental Sciences Office of Research (2000), revised January 15, to amend Table S2 for B811.
- b) This Section incorporates no later editions or amendments.

 (Source: Amended at 36 III. Reg. _______, effective ______)

SUBPART B: DEFINITIONS

Section 501.201 Definitions

- <u>a)</u> Except as hereinafter stated and unless a different meaning of the term is clear from its context, the definitions of terms used in this Chapter shall be the same as those used in the Act and 35 Ill. Adm. Code: Subtitle C, Chapter I.
- b) The definitions contained in this Subpart are applicable to 35 Ill. Adm. Code Parts 501, 502 and 503.

(Source: Amended at 36 III. Reg. ______, effective _____)

Section 501.223 Animal Confinement Area

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.

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	AUUGU AL JU III. NGU.	. ettective

Section 501.236 Chemicals and Other Contaminants

Antibiotics, hormones, feed additives, pesticides, hazardous and toxic chemicals, petroleum products and by-products, other chemical products and by-products, and the residues and containers thereof.

(Source:	Added at 36 III. Reg	, effective)
Section 501.238	Concentrated Anim	al Feeding Operation (CAFO	<u>)</u>
		pursuant to Section 502.103 or ignated as a CAFO pursuant to	
(Source:	Added at 36 III. Reg	, effective)
Section 501.241	CWA		
(also known as th	ne Clean Water Act), as am ongress October 18, 1972,	C. 1251 et seq. Federal Water Ponended, 33 U.S.C 1251 et seq., las amended by Public Law 95	Public Law 92-500,
(Source:	Amended at 36 III. Reg	, effective)
Section 501.242	Dry lot		
A facility for grossimming areas.		nt with a dry litter floor cover	and no access to
(Source:	Added at 36 III. Reg	, effective)
Section 501.244	Erosion Factor T		
without affecting year. The erosion	crop productivity over a	ual rate of soil erosion by water sustained period. The rate is i United States Department of A eys.	n tons per acre per
(Source:	Added at 36 III. Reg	, effective)
Section 501.252	Frozen Ground		
Soil that is froze the ground surfa		e first ½ inch to 8 inches of so	il as measured from
(Source:	Added at 36 III. Reg	, effective)
Section 501.253	Grassed Waterway	_	
		et shaped or graded and establi frunoff from a field, diversion	
(Source:	Added at 36 III. Reg	, effective)
Section 501.254	Groundwater		

	ch occurs within the saturate space is equal or greater		
		•	
	at 36 III. Reg.	, erective)
Section 501.261 Inc	corporation		
mixed or completely cov	ation of livestock waste in ered with the soil within 2 er application is not consid	4 hours. Any ponded l	iquid livestock waste
(Source: Added	at 36 III. Reg	, effective)
Section 501.263	ection		
	livestock waste 4 to 12 inc ecifically designed for that		
(Source: Added	at 36 III. Reg	, effective)
Section 501.267 La	nd Application Area		
	f an Animal Feeding Oper , to which livestock waste		
(Source: Added a	t 36 III. Reg.	, effective)
Section 501.295 Liv	vestock Waste		
overflow from watering s precipitation polluted by materials polluted by live storage structures. Liveste	sociated feed losses, beddin ystems, wash waters, sprin falling on or flowing onto a stock, including but not lin ock waste does not include	kling waters from livest an animal feeding operated to sludge and conta agricultural stormwater	ock cooling, tion and other aminated soils from discharge.
(Source: Amende	d at 36 III. Reg.	, effective)
Section 501.301 Ma	acropore		
Any pore that allows fro	ee drainage to the depth o	f the subsurface drain.	
Section 501.305 Ma	an-made		
Constructed by man-and	used for the purpose of tran	sporting waste.	
(Source: Amende	d at 36 III. Reg.	, effective)

A discrete fissure or channel excavated in the earth-for the purpose of transporting livestock-

Section 501.310 Man-made Ditch

acceptable disp	to navigable waters. This is not to be confused with a vegetative filter or bosal area which is a treatment device and may take the form of a man-made waterway system.
(Source	e: Amended at 36 III. Reg, effective)
Section 501.31	12 Manure
Manure includ commingled w	les animal excreta, bedding, compost and raw materials or other materials rith manure or set aside for disposal.
(Source	e: Added at 36 III. Reg, effective)
Section 501.31	13 Manure Storage Area
Manure storag stockpiles, und piles.	e area includes but is not limited to lagoons, runoff ponds, storage sheds, der the house or pit storages, liquid impoundments, static piles, and composting
(Source	e: Added at 36 III. Reg, effective)
Section 501.32	Navigable Waters (Repealed)
	ne United States as defined in Criteria and Standards for the National Pollutant- nination System (40 CFR 125.1(p)):
<u>a) </u>	All navigable waters of the United States;
b)	Tributaries of navigable water of the United States;
c)	Interstate waters;
· · · · · · · · · · · · · · · · · · ·	Intrastate lakes, rivers and streams which are utilized by interstate travelers for recreational or other purposes;
*	Intrastate lakes, rivers and streams from which fish or shellfish are taken and sold in interstate commerce; and
,	Intrastate lakes, rivers and streams which are utilized for industrial purposes by industries in interstate commerce.
(Source	e: Repealed at 36 III. Reg, effective)

Section 501.333 New Source

Any building, pollutants, the	structure, facility, or installation from which there is or may be a discharge of construction of which commenced after either of the following dates:
<u>a)</u>	after promulgation of standards of performance under section 306 of the Clean Water Act which are applicable to such source, or
<u>b)</u>	after proposal of standards of performance in accordance with section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with section 306 within 120 days of their proposal.
(Source	e: Added at 36 III. Reg, effective)
Section 501.34	43 Overflow
	of livestock waste resulting from the filling of livestock waste storage structures int at which livestock waste or stormwater can no longer be contained by the
(Source	e: Added at 36 III. Reg, effective)
Section 501.34	45 Owner <u>/or</u> Operator
* *	no owns, leases, <u>operates,</u> controls or supervises a livestock management facility or e-handling facility.
(Source	e: Amended at 36 III. Reg, effective)
Section 501.35	55 Pollutant
munitions, che discarded equi	solid waste, incinerator residue, <u>filter backwash</u> , sewage, garbage, sewage sludge, emical wastes, biological materials, radioactive materials, heat, wrecked or pment, rock, sand, cellar dirt and industrial, municipal and agricultural waste o water, as defined in CWA.
(Sc	ource: Amended at 36 III. Reg, effective)
Section 50	1.357 Process Wastewater
Water dire	ctly or indirectly used in the operation of the AFO for any of the following spillage or overflow from animal or poultry watering systems; washing,

Water directly or indirectly used in the operation of the AFO for any of the following activities: spillage or overflow from animal or poultry watering systems; washing, cleaning, or flushing pens, barns, manure pits, or other AFO facilities; direct contact swimming, washing, or spray cooling of animals; or dust control. It also includes any water which comes into contact with any raw materials, products, or byproducts, including manure, litter, feed, milk, eggs or bedding.

(Source: Added at 36 III. Reg. _____, effective _____)

Section 501.358 Production Area

area, the raw mater	ials storage area, and the	e waste containment areas. <i>T</i>	Also included
		gg washing or egg processing ment, or disposal of mortalit	
	-	, effective	
Section 501.359	Raw Materials Stora	g <u>e Area</u>	
Raw materials stora and bedding materia	nge area includes, but is r als stacks.	not limited to, feed silos, sila	age bunkers,
(Source: Ad	ded at 36 III. Reg	, effective)
Section 501.360	Saturated Settling Bas	sin	
or liquid wastes can combination of structure feedlot runoff for a structure feedlot runoff feedlot runo	not infiltrate into the soil. etures designed as part of sufficient time to permit s	by liquid such that additional Any excavated, diked or wal a livestock waste-handling f solids to settle for later remove , effective	led structure or acility to detain val.
livestock waste may	e from surface waters or not be land applied. Ex	potential conduits to surface kamples of conduits to surface ake structures, sinkholes, and	ce waters
(Source: Ad	dded at 36 III. Reg	, effective)
Section 501.373	Surface Land Applica	ation_	
Application of lives	tock waste to the ground	surface that is not incorporate	ed or injected.
(Source: Ad	dded at 36 III. Reg	, effective)
Section 501.377	Vegetative Buffer		
of the land and perp slowing water runof	endicular to the dominant f, enhancing water infiltr	regetation established paralle t slope of the field for the puration, and minimizing the ris the field and reaching surfac	rposes of k of any
(Source: Ad	ded at 36 III. Reg	, effective)
Section 501.378	Vecetative Fence Roy	W	

<u>ivarrow, permanent strip or perennial vegetation established at the edge</u>	
a minimum of 15 feet wide. The vegetative fence row slows water run	
water infiltration thereby reducing the risk of pollutants leaving the fiel	<u>d.</u>
(Source: Added at 36 III. Reg, effective)
(Source: 7 touse of the reg	/
Section 501.379 Waste Containment Area	
Section 301.379 Waste Containing it Area	
Moster contributed to the first of the first of the contribute of	
Waste containment area includes, but is not limited to, settling basins, a	
berms and diversions which separate uncontaminated stormwater from	<u>livestock waste.</u>
(Source: Added at 36 III. Reg, effective)
(111 11 11 11 11 1 <u> </u>	
Costion EM 20E Wet let	
Section 501.385 Wet lot	
A confinement facility for raising ducks which is open to the environment	
number of sheltered areas, and with open water runs and swimming are	eas to which
ducks have free access.	
(Source: Added at 36 III. Reg, effective)
(Source: Maded at 66 III: Mag, arconve	/
Costion 504 200 25 Voor 24 Hour Broginitation Event	
Section 501.390 25-Year, 24-Hour Precipitation Event	
The maximum 24-hour precipitation event with a probable recurrence i	
in 25 years, as defined by the National Weather Service in NOAA Atla	<u>s 14-</u>
Precipitation Frequency Atlas of the United States, Volume 2, Version	3.0 (2004).
found at http://hdsc.nws.noaa.gov/hdsc/pfds/orb/il_pfds.html.	
(Source: Added at 36 III. Reg, effective	1
(codi cc. //daca at so iii. r.cg, circuive	/
Costion 504 205 400 Voor 24 Hour Procinitation Event	
Section 501.395 100-Year, 24-Hour Precipitation Event	
TI : 041 :::::::::::::::::::::::::::::::::	
The maximum 24-hour precipitation event with a probable recurrence i	
<u>in 100 years, as defined by the National Weather Service in NOAA Atl</u>	<u>as 14-</u>
Precipitation Frequency Atlas of the United States, Volume 2, Version	3.0 (2004),
found at http://hdsc.nws.noaa.gov/hdsc/pfds/orb/il pfds.html.	<u></u> _
Tourist de Interprétation de la contraction de l	
(Source: Added at 36 III. Reg, effective	1
(Source: Added at 50 III. Neg, Greative	/
SUBPART C: OPERATIONAL RULES FOR ALL LIVESTOCK M	ANAGEMENT
FACILITIES AND LIVESTOCK WASTE-HANDLING FAC	
INCIDITION IN DEVENOUS WHOLE-INITIONING PAC	-111110
a =04.404	
Section 501.401	<u>vestock</u>
Management Facilities and Livestock Waste-Ha	andling
Facilities General Criteria	<u>~</u>
racinues ocherar Criteria	

Besides the regulations contained within this Chapter, every person shall

also comply with provisions of the Act and Board regulations.

a)

- b) The owner or operator of any livestock management facility or livestock waste-handling facility shall comply with the CWA, NPDES filing requirements and the feedlot category of point source effluent guidelines. All livestock management facilities and livestock waste handling facilities have the obligation to make a site specific determination of whether the facility is subject to NPDES permit requirements and to follow those requirements when and where they are applicable. CAFOs are subject to additional requirements applicable under Part 502.
- c) <u>The These</u> regulations <u>in this subpart</u> shall apply to stockyards and similar operations where animals are held briefly, as well as to conventional livestock operations.
- d) The transportation of livestock wastes shall be planned and conducted so as not to cause, threaten, or allow any violation of the Act and applicable regulations.
- e) Any runoff or overflow from a livestock management facility or a livestock waste handling facility shall not cause a water quality violation pursuant to the Act or 35 Ill. Adm. Code Subtitle C: Water Pollution.

((Source: Amended at :	36 III.	Rea.	. effective)

Section 501.402 Location of New Livestock Management Facilities and New Livestock Waste-Handling Facilities

- a) No new livestock management facility or new livestock waste-handling facility shall contain within its boundaries any stream or other surface waters except small temporary accumulations of water occurring as a direct result of precipitation.
- b) New livestock management facilities and new livestock waste-handling facilities located within a 10-year flood height as recorded by the United States Geological Survey or as officially estimated by the Illinois State Water Survey shall be protected against such flood.
- c) 1) Upon July 15, 1991, new or expanded livestock management facilities and new or expanded livestock waste-handling facilities shall not be located within 1/2 mile of a populated area or within 1/4 mile of a non-farm residence.
 - 2) For purposes of this subsection (c), the following shall not be considered location of a new or expanded livestock management or waste handling facility:
 - A) Commencement of operations at an idle facility which has livestock shelters left intact, and which has been operated

- as a livestock management facility or livestock wastehandling facility for four consecutive months at any time within the ten (10) previous years;
- B) Commencement of operations at a facility reconstructed after partial or total destruction due to natural causes, i.e., tornado, fire, or earthquake.
- 3) Adequate odor control methods and technology shall be practiced by operators of new and existing livestock management facilities and livestock waste-handling facilities so as not to cause air pollution.
- d) The setback requirements of subsection (c) shall not apply to any livestock management facility or livestock waste-handling facility which meets any of the following conditions:
 - 1) The facility is located in an Agricultural Area, designated as such pursuant to the Agricultural Areas Conservation and Protection Act, 505 ILCS 5/1 II. Rev. Stat. 1989, ch. 5, para. 1001 et seq.;
 - 2) The facility undergoes expansion, and the owner of the facility certifies and notifies the Agency in writing as such that the facility was operating as a livestock management facility or livestock waste-handling facility for at least one year prior to the existence of any non-farm residence within 1/4 mile of the facility or of a populated area within 1/2 mile of the facility; or
 - 3) The use of the facility as a livestock management or livestock waste handling facility is allowed by local zoning or municipal ordinance. If no local zoning or municipal ordinance exists that covers such use, the facility shall be exempt if the livestock are not raised or kept at the facility primarily for hire or the raising or keeping of livestock at the facility does not have financial profit as a primary aim.
- e) A new livestock management facility or new livestock waste-handling facility which locates within 1/4 mile of a neighboring farm residence shall locate at the maximum feasible location from such residence.
- f) A new livestock management facility or new livestock waste-handling facility which locates within 1/4 mile of a non-farm residence or within 1/2 mile of a populated area, pursuant to subsection (d), shall locate at the maximum feasible location from such residence or populated area.

- g) New livestock management facilities or new livestock waste-handling facilities located on soil types or geological formations where the deposition of livestock waste is likely to cause groundwater pollution shall be constructed in such a way that pollution will be prevented, or supplementary measures shall be adopted which will prevent pollution.
- h) No new livestock management facility or new livestock waste-handling facility shall locate within 750 feet of surface waters or a quarter mile from designated surface water drinking supplies.
- i) No new livestock management facility or new livestock waste-handling facility shall locate within 1000 feet of community water supply wells or 400 feet from other potable water supply wells.

((Source: Amended at	: 36 III.	Req.	, effective
	(- 3	

Section 501.404 Handling and Storage of Livestock Waste

- a) Any livestock waste stored in excess of six months shall be contained in a manure storage structure.
- b) Temporary Manure Stacks
 - A temporary manure stack is a potential secondary source, as defined by the Act. As a potential secondary source, a temporary manure stack is subject to the minimum setback zones established in Title IV of the Act. Temporary manure stacks shall be constructed or established and maintained in a manner to prevent runoff and leachate from entering surface or groundwaters.
 - 2) A temporary manure stack shall not be located within 75 feet from any water well, except monitoring wells. No temporary manure stack shall be constructed within 100 feet of a water well.
 - A temporary manure stack shall be constructed or established and maintained in a manner to prevent runoff and leachate from entering surface waters or groundwaters. AEither a cover and enclosed pad or other control must be provided when needed to prevent runoff and leachate from entering surface waters and groundwater or the temporary manure stack must be located in accordance with the following setbacks: 750 feet from surface waters; 1000 feet from community water supply wells; 400 feet from other potable water supply wells, and 400 feet from karst features.

- 4) A temporary manure stack without a cover and enclosed pad or other control is prohibited where the minimum soil depth to the seasonal high water table is less than or equal to 2 feet or where there is less than 20 inches of unconsolidated material over bedrock.
- c) Livestock Waste-Holding Facilities
 - Liquid manure-holding tanks shall be impermeable and capable of withstanding pressures and loadings to which such a tank may be subjected.
 - 2) Holding ponds and lagoons shall be impermeable or so sealed as to prevent groundwater or surface water pollution.
 - 3) For livestock management facilities and livestock waste handling facilities that are not required to obtain an NPDES permit, the The contents of livestock waste-handling facilities shall be kept at levels such that there is adequate storage capacity so that an overflow does not occur except in the case of precipitation in excess of a 25-year 24-hour storm.
 - 4) Liquid Livestock Waste
 - A) Existing livestock management facilities which handle the waste in a liquid form shall have adequate storage capacity in a liquid manure-holding tank, lagoon, holding pond, or any combination thereof so as not to cause air or water pollution as defined in the Act or applicable regulations. If inadequate storage time causes or threatens to cause a violation of the Act or applicable regulations, the Agency may require that additional storage time be provided. In such cases, interim pollution prevention measures may be required by the Agency.
 - B) New livestock waste-handling facilities which handle the waste in a liquid form shall provide a minimum of 120-day storage with a liquid manure-holding tank, lagoon, holding pond, or any combination thereof unless the operator has justifiable reasons substantiating that a lesser storage volume is adequate. If inadequate storage volumes cause or threaten to cause a violation of the Act or applicable regulations, the Agency may require corrective measures.
- d) Runoff Field Application Systems

Any livestock management facility <u>not meeting the definition of a CAFO in Section 501.238</u>, may construct and operate a runoff field application system for the treatment of livestock waste from fewer than 300 animal units, meeting the requirements of 35 Ill. Adm. Code 570, in lieu of utilizing liquid manure-holding tanks, holding ponds, or lagoons in compliance with subsection (c), or other livestock waste-handling systems which would assure compliance with the Act and 35 Ill. Adm. Code.Subtitle E.

- e) Subsections (a) through (d) shall not apply to livestock management facilities with fifty (50) or fewer animal units, provided that the following conditions exist:
 - The location of the facility relative to waters of the State is such that there is no discharge of livestock waste into waters of the State, in violation of Section 12 of the Act [415 ILCS 5/12 (2010)](Ill. Rev. Stat. 1989, ch. 111 1/2, par. 1012);
 - 2) There is no discharge of livestock waste into waters of the State by means of a man-made ditch, flushing system or other similar manmade device, in violation of Section 12 of the Act [415 ILCS 5/12 (2010)](Ill. Rev. Stat. 1989, ch. 111 1/2, par. 1012); and
 - 3) The facility is managed so that livestock waste is not allowed to accumulate to an extent which threatens to cause a discharge to waters of the State, in violation of Section 12 of the Act [415 ILCS 5/12 (2010)](III. Rev. Stat. 1989, ch. 111 1/2, par. 1012).

(Source: /	Amended at 36 III. Reg.	. effective

Section 501.405 Field Application of Livestock Waste

- a) For livestock management facilities and livestock waste handling facilities that are not required to obtain an NPDES permit, the The quantity of livestock waste applied on soils shall not exceed a practical limit as determined by soil type, especially its permeability, the condition (frozen or unfrozen) of the soil, the percent slope of the land, cover mulch, proximity to surface waters and likelihood of reaching groundwater, and other relevant considerations. These livestock waste application guidelines will be adopted pursuant to Section 502.305, unless otherwise provided for by Board regulations. Facilities required to obtain an NPDES permit are subject to the requirements in Subpart F of Part 502. Large unpermitted CAFOs must comply with Sections 502.102; 502.505; 502.510(b); 502.610(k); and 502.615 through 502.645.
- b) Operators of livestock waste handling facilities shall practice odor control methods during the course of manure removal and field application so as

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not to affect a neighboring farm or non-farm residence or populated area by causing air pollution as described in Section 501.102(d). Odor control methods include, but are not limited to,

- 1) Soil injection or other methods of incorporation of waste into the soil including disking or plowing;
- 2) Consideration of climatic conditions including wind direction and inversions;
- 3) For liquid livestock waste: whether supernatant which is used for irrigation purposes has been stored in a livestock waste lagoon system which is designed and operated in accordance with "Design of Anaerobic Lagoons for Animal Waste Management", as incorporated by reference at Section 501.200.
- 4) Other methods as described in "ManagementControl of Manure Odors", as incorporated by reference at Section 501.200.

(Source: Amended at 36 III. Reg.	, effective
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SUBPART D: SUBMITTAL OF INFORMATION

Section 501.505 Requirements for Certain CAFOs to Submit Information

- a) The requirements of this Section must be met if the United States Environmental Protection Agency adopts a regulation pursuant Section 308 of the Clean Water Act [33 U.S.C. 1318] that requires submittal of information from one or more categories of CAFOs.
- b) Any CAFO required to submit information under a final rulemaking pursuant to Section 308 of the Clean Water Act described in subsection (a) of this Section, must comply with the requirements of that regulation unless such requirements are overturned or stayed by a court.
- c) Any CAFO required to submit information to the United States Environmental Protection Agency pursuant to a final action under Section 308 of the Clean Water Actmust submit the same information to Illinois EPA. The submission must occur simultaneously with the submittal to the United States Environmental Protection Agency or within 90 days following the effective date of this Section, whichever is later.

- (a) Existing Large CAFOs that are not covered under an individual or general NPDES permit, must submit the information in subsection (d) of this Section to the Agency in a form provided by the Agency within 90 days of the effective date of this Section.
- b) Existing CAFOs that expand or otherwise increase the number of animals to meet the size threshold of Large CAFOs after the effective date of this Section, which are not covered under an individual or general NPDES permit, must submit the information in subsection (d) of this Section to the Agency in a form provided by the Agency no later than 90 days in advance of the date the expanded CAFOs are to commence operations.
- c) New unpermitted Large CAFOs that commence construction after the effective date of this Section and that do not apply for NPDES permits, must submit the information in subsection (d) of this Section to the Agency in a form provided by the Agency no later than 180 days in advance of the date the new CAFO is to commence operations.
- d) Pursuant to subsections (a), (b) and (c) of this Section, the following information must be submitted to the Agency:
 - 1) Name and address of the owner and operator;
 - 2) If contract operation, name and address of the integrator;
 - 3) The facility location and mailing addresses;
 - 4) The latitude and longitude at the entrance to the production area;
 - 5) Specific information about the average and maximum number and type of animals, whether in open confinement or housed under roof (e.g., beef cattle, broilers, layers, swine weighing 55 pounds or more);
 - The type of waste containment and storage (e.g. anaerobic lagoon, roofed storage shed, storage ponds, underfloor pits, above ground storage tanks, below ground storage tanks, concrete pad, impervious soil pad, and total capacity for manure, litter, and process wastewater storage [tons/gallons]);
 - Estimated amounts of livestock waste generated per year (tons/gallons);
 - 8) Whether the CAFO land applies;
 - 9) The total number of acres of land application area and the amount of waste applied on those acres annually;

- 10) Estimated amount of livestock waste transferred to other persons or third-parties per year (tons/gallons);
 - A) Copies of signed contractual agreements with transferees accepting waste from the facility consistent with Section 502.610 (k).
- 11) Whether the CAFO implements a nutrient management plan;
- 12) A copy of the CAFO's nutrient management plan;
- 13) Whether the CAFO employs nutrient management practices and keeps records on site consistent with applicable regulations;
- 14) If the CAFO does not land apply, alternative uses of manure, litter and/or wastewater; and
- 15) Whether the facility has ever been issued an NPDES permit and, if so, the dates of coverage under the permit.
- e) The information in subsection d) shall be submitted every five years.
- The submittals required under this Section should be sent in electronic format to the Illinois Environmental Protection Agency at a web address provided by the Agency or to:

<u>Division of Water Pollution Control</u>
<u>Attn. Permit Section</u>
<u>P.O. Box 19276</u>
Springfield, Illinois 62794-9276.

<u>g)</u>	The Agency shall make the in available to the public.	The Agency shall make the information collected under this Section available to the public.		
(Sou	rce: Added at 36 III. Reg.	, effective)	

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE E: AGRICULTURE RELATED POLLUTION CHAPTER I: POLLUTION CONTROL BOARD

PART 502 PERMITS

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	-
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502.830 Alternative Best Management Practice Livestock Waste Discharge

Limitations

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APPENDIX A References to Previous Rules

AUTHORITY: Implementing Sections 9, 12, 13, 21, and 22 of the Environmental Protection Act [415 ILCS 5/9, 5/12, 5/13, 5/21 and 5/22] (Ill. Rev. Stat. 1981, ch. 111-1/2, pars. 1009, 1012, 1013, 1021 and 1022) and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/27] (Ill. Rev. Stat. 1981, ch. 111½ par. 1027).

SOURCE: Filed and effective January 1, 1978; amended 2 Ill. Reg. 44, p. 137, effective October 30, 1978; codified at 7 Ill. Reg. 10592; amended at Ill. Reg. , effective

SUBPART A: PERMITS REQUIRED

Section 502.101 NPDES Permit Requirement and Duty to Maintain Permit Coverage

- A CAFO is a point source. Any discharge of pollutants into waters of the United States from a CAFO is prohibited unless authorized by an NPDES permit or unless the discharge is an agricultural stormwater discharge as described in Section 502.102(b. No person shall cause or allow a discharge from a CAFO in violation of federal and state law, including but not limited to the CWA-, the Act or Board regulations
- b) The owner or operator of a CAFO must seek coverage under an NPDES permit if the CAFO discharges., provided that:
 - 1) A past discharge from a CAFO does not trigger a duty to apply for a permit if the conditions that gave rise to the discharge have been corrected and the CAFO modified its design, construction, operation or maintenance in such a way as to prevent discharges from occurring in the future.
 - No permit shall be required under this Part for any discharge for which a permit is not required under the CWA, and regulations pursuant thereto. (Section 12(f) of the Act).
- The owner or operator of a CAFO that discharges must either apply for an individual NPDES permit or submit a notice of intent for coverage under an NPDES general permit. If the Agency has not made a general permit available to the CAFO, the CAFO owner or operator must submit an application for an individual permit to the Agency. All permit applications and applications for permit modifications must contain the information set forth in Subpart B of this Part.

- <u>Any permitted CAFO shall apply for reissuance of the NPDES permit not less than 180 days prior to the expiration date of the permit unless the CAFO will not discharge after the expiration date of the NPDES permit.</u>
- e) The owner or operator of a new CAFO that will discharge must apply for NPDES permit coverage at least 180 days prior to the time that the CAFO commences operation.
- Once an animal feeding operation is defined as a CAFO for at least one type of animal, the NPDES permit requirements for CAFOs apply with respect to all animals in confinement at the animal feeding operation and all livestock waste generated by those animals or the production of those animals.

No person specified in Sections 502.102, 502.103 or 502.104 or required to have a permit under the conditions of Section 502.106 shall cause or allow the operation of any new-livestock management facility or livestock waste handling facility, or cause or allow the modification of any livestock management facility or livestock waste-handling facility, or cause or allow the operation of any existing livestock management facility or livestock waste handling facility without a National Pollutant Discharge Elimination System (NPDES) permit. Facility expansions, production increases, and process modifications which significantly increase the amount of livestock waste over the level authorized by the NPDES permit must be reported by submission of a new NPDES application.

(Source: Amended at	Ill. R	Reg.	, effective	,
(0.	,	_

Section 502.102 <u>Land Application Discharges and Agricultural</u> StormwaterTwenty-five Year Storm Event

- The discharge of livestock waste to waters of the United States from a CAFO as a result of the livestock waste application by the CAFO to land application areas is a discharge from that CAFO subject to NPDES permit requirements, except where it is an agricultural stormwater discharge and therefore exempt from the definition of a point source under Section 502 of the Clean Water Act.
- Where livestock waste has been land applied in accordance with site specific nutrient management practices. Sections 502.615 through 502.645 to that ensure appropriate agricultural utilization of the nutrients in the livestock waste and in compliance with Section 502.510 for permitted CAFOs and Section 502.510(b) for unpermitted Large CAFOs, a precipitation-related discharge of livestock waste from land application areas of an unpermitted large CAFO or a permitted CAFO, is an agricultural stormwater discharge.
- <u>Unpermitted Large CAFOs must develop a nutrient management plan</u>
 <u>consistent with 502.505 and maintain the documentation specified in 35</u>

 III. Adm. Code 502.510(b)(15) either on site or at a nearby office, or otherwise make such documentation readily available to the Agency upon request.

d) The nutrient management practices to be implemented shall be reviewed annually by the CAFO and the nutrient management plan updated when there is a change in the nutrient management practices.

An NPDES permit shall be required for an animal feeding operation which falls within the criteria set forth in Section 502.103 or Section 502.104 below; provided, however, that no animal feeding operation shall require a permit if it discharges only in the event of a 25-year 24-hour storm event.

(Source: Amended at Mr. Reg. , cricetive	(Source: Amended at	Ill. Reg.	, effective	
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Section 502.103 Very Large CAFOs Operators

An <u>AFO is defined as a Large CAFO if as many as or NPDES permit is required if</u> more than the numbers of animals specified in any of the following categories are <u>stabled or</u> confined:

Number of Animals	Kind of Animals
700	Mature dairy cows, whether milked or dry
<u>1,000</u>	Veal calves
<u>1,000</u>	Cattle other than mature dairy cows or veal calves. Cattle includes but is not limited to heifers, steers, bulls and cow/calf pairs
<u>2,500</u>	Swine each weighing 55 pounds or more
10,000	Swine each weighing less than 55 pounds
<u>500</u>	Horses
10,000	Sheep or lambs
<u>55,000</u>	Turkeys
<u>30,000</u>	Laying hens or broilers, if the AFO uses a liquid manure handling
40E 000	System Chickens (ather then laving hone) if the AFO was other than a
<u>125,000</u>	Chickens (other than laying hens), if the AFO uses other than a liquid manure handling system
82,000	Laying hens, if the AFO uses other than a liquid manure handling
<u>02,000</u>	system
30,000	Ducks (if the AFO uses other than a liquid manure handling system)
5,000	Ducks (if the AFO uses a liquid manure handling system)
Number of	Kind of Animals
<u>Animals</u>	
1000	Brood cows and slaughter and feeder cattle
700	Milking dairy cows
500	Horses
2500	Swine weighing over 55 pounds
10,000	Sheep, lambs or goats
55,000	Turkeys
100,000	Laying hens or broilers (if the facility has continuous overflow-
	watering)

30,000	Laying hens	or broilers (if tl	ne facility has a liquid r	nanure handling
	system)			
5000	Ducks			
1000	Animal unit	S		
(Source: A	mended at	Ill. Reg	, effective)
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Section 502.104 <u>Medium CAFOs</u> <u>Large Operators</u>

Number of Animals

a) An <u>AFO is defined as a Medium CAFO NPDES permit is required</u> if more than the following numbers and types of animals specified in any of the following categories are stabled or confined and the provisions of either subsection condition (b), or (c) or (d) below of this Section is met:

Number of Animals	Kind of Animals
200 to 699	Mature dairy cows, whether milked or dry
300 to 999	<u>Veal calves</u>
300 to 999	Cattle other than mature dairy cows or veal
	calves. Cattle includes but is not limited to
	heifers, steers, bulls and cow/calf pairs
750 to 2,499	Swine each weighing 55 pounds or more
3,000 to 9,999	Swine each weighing less than 55 pounds
150 to 499	<u>Horses</u>
3,000 to 9,999	<u>Sheep or lambs</u>
16,500 to 54,999	<u>Turkeys</u>
9,000 to 29,999	Laying hens or broilers, if the AFO uses a
	liquid manure handling system
37,500 to 124,999	Chickens (other than laying hens), if the AFO
	uses other than a liquid manure handling
	system
25,000 to 81,999	Laying hens, if the AFO uses other than a
	liquid manure handling system
10,000 to 29,999	Ducks (if the AFO uses other than a liquid
	manure handling system)
1,500 to 4,999	Ducks (if the AFO uses a liquid manure
	<u>handling system)</u>

300	Brood cows and slaughter or feeder cattle
200	Milking dairy cows
750	Swine weighing over 55 pounds
150	Horses
3000	Sheep, lambs or goats
16,000	Turkeys
30,000	Laying hens or broilers (if the facility has continuous
	overflow watering)
9000	Laying hens or broilers (if the facility has a liquid-
	manure handling system)

Kind of Animals

	1000	Ducks		
	300	Animal units		
b)		•	gable waters <u>of the Ur</u> g system or other simi	
c)	States which original	inate outside of a	nto navigable waters on the pass over, across, the with the animals conf	hrough or
<u>d)</u>	The AFO is designment of the AFO is designed on	gnated as a CAFO	O by the Agency purs	cuant to Section
(Sourc	e: Amended at	Ill. Reg	, effective)
Section 502.1	05 <u>Small CA</u>	.FOsVoluntary A	Applications	
An AFO is a S	Small CAFO if it is	designated as a	CAFO by the Agency	pursuant to
Section 502.10	06 of this Part, and	it is not a Mediu	m CAFO. None of the	requirements
listed in this so	ubpart precludes th	e voluntary filing	g of an NPDES applies	ation by the owner
or operator of	an animal feeding	operation.		
(Sourc	e: Amended at	Ill. Reg	, effective)
Section 502.1	06 <u>Case-By-0</u>	<u>Case Case-by-ca</u>	se Designation Requ	iring NPDES

Permits

- a) Notwithstanding any other provision of this Part, the Agency may require any animal feeding operation not falling within Sections 502.102, 502.103 or 502.104 to obtain ana NPDES permit by designating the AFO as a CAFO upon determining that it is a significant contributor of pollutants to waters of the of the United States. In making such designation the determination of whether the AFO is a significant contributor of pollutants, the Agency shall consider the following factors:
 - 1) The size of the animal feeding operation and the amount of livestock wastes reaching navigable waters of-the United States;
 - 2) The location of the animal feeding operation relative to navigable waters of the **State**;
 - 3) The means of conveyance of <u>livestock animal</u> wastes and process wastewaters into navigable waters of the <u>United States</u>;

- 4) The slope, vegetation, rainfall and other factors relative to the likelihood or frequency of discharge of <u>livestock waste-animalwastes and process wastewaters</u> into <u>navigable</u> waters <u>of the United States</u>; and
- 5) Other such factors bearing on the significance of the pollution problem sought to be regulated.
- b) The Agency, however, may not require a permit under <u>subsection</u>
 (a) <u>paragraph a) of this Section</u> for any animal feeding operation with less than the number of animals <u>units (300)</u> set forth in Section 502.104 above, unless it meets either of the following conditions:
 - 1) Pollutants are discharged into navigable waters of the United

 States through a man-made ditch, flushing system or other similar man-made device; or
 - 2) Pollutants are discharged directly into navigable waters of the United States which originate outside of and pass over, across, through or otherwise come into direct contact with the animals confined in the operation.
- c) In no case may a permit application be required from an animal feeding operation designated pursuant to this section until there has been an onsite inspection of the operation and a determination that the operation should and could be regulated under the permit program. In addition, no application may be required from an owner or operator of an animal feeding operation designated pursuant to this section unless the owner or operator is notified in writing of the requirement to apply for a permit.
- d) Upon receipt of the Agency's notification that an NPDES permit is required pursuant to this Section, paragraph b) the operator shall make application to the Agency within 9060 days. The Agency may issue an NPDES permit with a compliance schedule detailing interim steps to be taken along with a final date, not to exceed 14 months from the date the permit is issued, by which compliance with the Act and all applicable regulations shall be achieved.

	_	-	e required to have a permit i year 24-hour storm event.	f it
(Source:	Amended at	Ill. Reg.	, effective)

SUBPART B: PERMIT APPLICATIONS

Section 502.201 Permit Applications Contents

- a) All applications <u>from a new or existing CAFO</u> for any permit, <u>including an individual permit or a general permit</u>, required under this Chapter shall contain, where appropriate, the following information and documents:
 - 1) The name of the owner or operator;
 - 2) If a contract operation, the name and address of the integrator;
 - 32) The facility location and mailing addresses;
 - 43) The latitude and longitude at the entrance to the production area;
 - Specific information about the average and maximum number and type of animals, whether in open confinement or housed under roof (beef cattle, broilers, layers, swine weighing 55 pounds or more, swine weighing less than 55 pounds, mature dairy cows, dairy heifers, veal calves, sheep and lambs, horses, ducks, turkeys, other); Kinds and numbers of livestock;
 - A statement as to any projected changes in the size of the livestock operation and when they may occur during the term of the permit;
 - The type of containment and storage (anaerobic lagoon, roofed storage shed, storage ponds, underfloor pits, above ground storage tanks, below ground storage tanks, concrete pad, impervious soil pad, other) and total capacity for manure, litter, and process wastewater storage (tons/gallons); Description of land areas used for the livestock management facilities and livestock waste handling facilities and land areas used for livestock waste disposal;
 - A topographic map of the geographic area in which the CAFO is located showing the specific location of the production area and land application areas, and indicating the following: A sketch of the existing and/or proposed facility indicating the following:
 - A) Approximate overall dimensions of the facility;
 - <u>AB</u>) Direction and location of surface <u>and subsurface</u> drainage and other discharges from the facility; and
 - <u>BC</u>) General Location location of waterways in the area.;
 - D) Location of area for manure disposal; and

		E) A marked-up aerial photograph or U.S. Geological Surveymap of the area involved is desirable in lieu of a sketch.
	98)	Estimated amounts of livestock waste generated per year (tons/gallons);
	<u>109)</u>	The total number of acres of land application area and the amount of waste applied to those acres annually;
	<u>1140</u>)	Estimated amount of livestock waste transferred to other persons per year (tons/gallons);
	<u>12)</u>	Copies of contracts for the transfer of waste to other persons consistent with Section 502.610(k) and the location on a topographic map and acreage of each site used by the other person for land application of the transferred waste.
	<u>1311)</u>	A nutrient management plan that is consistent with the requirements of Subpart E;
	<u>1412</u>)	A stormwater pollution prevention plan;
	<u>1513</u>)	A spill control and prevention plan; and
	<u>1614)</u>	A statement identifying and justifying any departure from current design criteria promulgated by the Agency.
b)	as is no	gency may adopt procedures requiring such additional information ecessary to determine whether the <u>CAFO</u> livestock management or livestock waste handling facility will meet the requirements of and applicable Board <u>regulations</u> .
c)	to appl may pr	able requirements of 35 Ill. Adm. Code 309: Subpart A shall apply ications for NPDES permits required by this chapter. The Agency escribe the form in which information required under this section e submitted.
(Source	e: Amei	nded at Ill. Reg, effective)
Section 502.2	02	Permit Application Submissions Registered or Certified Mail
appropriate ad sent by mail sl	dress de hall be s which ar son em	s shall be mailed, or-delivered or electronically submitted to the esignated by the Agency.—Any application or revised application ent by registered or certified mail, return receipt requested.—The hand-delivered shall be delivered to and receipted for by any ployed in the Permit Section of the Agency's Division of Water
(Sourc	e: Amei	nded at Ill. Reg, effective)

Section 502.203 New Applications (Repealed)

Any person now discharging whose discharge was not covered by the Refuse Act permit-
program (33 U.S.C. 407), but which is subject to the NPDES program, must apply for an
NPDES permit on the effective date of this chapter. However, for purposes of this
chapter, any person who has applied for an NPDES permit from the U.S. Environmental
Protection Agency and whose application has not been denied, shall be considered to-
have applied for an NPDES permit unless the discharge described in the Application for
an NPDES Permit has substantially changed in nature, volume, or frequency; in which
case another NPDES permit application shall be submitted.

have applied for an NPDES permit unless the discharge described in the Application for an NPDES Permit has substantially changed in nature, volume, or frequency; in which case another NPDES permit application shall be submitted.
(Source: Repealed at Ill. Reg, effective)
Section 502.204 Renewal
Permittees seeking reissuance of their NPDES permit pursuant to 502.101(d) who wish to continue to discharge subsequent to the expiration date of their permit must apply for reissuance of the permit, using proper forms, not less than 180 days prior to the permit expiration date. The Agency will notify such persons of the need for renewal at least 60 days prior to the date on which the renewal application must be submitted; however failure to do so does not excuse non-compliance with this chapter.
(Source: Amended at Ill. Reg, effective)
Section 502.205 New Operations (Repealed)
Any person whose livestock waste handling facility or livestock management facility is required by Sections 502.101, 502.102, 502.103 or 502.104 to obtain a permit and will-begin operation on or after the effective date of these Regulations must apply for an NPDES permit no later than 180 days in advance of the date on which the facility is to-commence operation minus the number of days available storage time for installed manure storage structures.
(Source: Repealed at Ill. Reg, effective)
Section 502.207 Disclosure Required for Land Trusts
An applicant filing for an NPDES permit shall satisfy the requirements of the "Land <a (ill.="" (source:="" 148,="" 1981,="" 405="" 72)="" [735="" a="" act="" agency="" all="" amended="" an="" applicant="" at="" before="" beneficial="" cases"="" certain="" certification="" ch.="" disclosure,="" effective)<="" et.="" grants="" held="" href="Trust Beneficial Interest Disclosure Act" ilcs="" ill.="" in="" interests="" is="" its="" land="" of="" par.="" perjury,="" permit.="" property="" real="" reg,="" require="" rev.="" seq.)."="" stat.="" td="" the="" to="" trust,="" under="">

SUBPART C: PERMIT ISSUANCE AND CONDITIONS

Section 502.304 Issuance and Conditions

- a) The provisions of 35 Ill. Adm. Code 309: Subpart A shall apply to the issuance, conditions and modification of NPDES permits under this chapter in the same manner as such provisions apply to NPDES permits issued pursuant to 35 Ill. Adm. Code 309. Specific provisions applicable to CAFOs seeking coverage under NPDES general permits are found in Section 502.310 of this Subpart.
- b) In addition to specific conditions authorized under this Part, the Agency may impose such conditions in any permit issued pursuant to this Part as may be necessary to accomplish the purposes of the Act or Board regulations.

/C A 1 1 4	TII D	CC	`
(Source: Amended at	Ill. Reg.	. effective	

Section 502.310 CAFOs Seeking Coverage Under NPDES General Permits

- a) CAFO owners or operators must submit a notice of intent that meets the requirements of Section 502.201 and Subpart E of this Part when seeking authorization to discharge under a general permit.
- b) When additional information is necessary to complete the notice of intent or to clarify, modify, or supplement previously submitted material, the Agency may request such information from the owner or operator as provided in 35 III. Adm. Code 309.106.
- <u>The Agency must notify the public of its proposal to grant coverage under the general permit to the CAFO. This public notice must include the CAFO's nutrient management plan.</u>
- d) The process for submitting public comments and hearing requests, and the hearing process if a request for a hearing is granted, will follow the procedures applicable to draft individual permits found in 35 III.

 Adm. Code 309.109(b) and 309.115 through 309.118.
- e) The time period for the public to comment and request a hearing is 30 days following the date of the notice issued pursuant to subsection (c).
- Mhen a public hearing is held, the Agency must respond to significant comments received during the comment period as provided in 35 III.

 Adm. Code 309.119 and 309.120, except that notice and transmission to the U.S. EPA Regional Administrator is not required. If no hearing is held, the Agency shall follow the procedures in 35 III. Adm. Code 309.112 and 309.120 for Agency action after the comment period. If necessary, the Agency will require the CAFO owner or operator to revise the nutrient management plan in order to be granted permit coverage.

- When the Agency authorizes coverage for the CAFO owner or operator under the general permit, the terms of the nutrient management plan shall become incorporated as terms and conditions of the permit for the CAFO. This incorporation of terms and conditions does not require a modification of the general permit.
- h) The Agency shall notify the CAFO owner or operator and inform the public that coverage has been authorized and of the terms of the nutrient management plan incorporated as terms and conditions of the permit applicable to the CAFO.
- i) Nothing in this Section shall limit the Agency's authority to require an individual NPDES permit pursuant to Section 39(b) of the Act.

(Source: Added at	III. Reg.	. effective)
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Section 502.315 CAFO Permit Requirements

NPDES permits issued to CAFOs under this Part must include:

- a) Requirements to implement a nutrient management plan that meets the provisions of Subpart E of this Part.
- b) Requirements for the permittee to create, maintain for five years from creation on site, and make available to the Agency, upon request, a complete copy of the records required in Section 502.320 of this Part.
- Annual reporting requirements for permitted CAFOs. The permittee must submit an annual report to the Agency. The annual report must include the information specified in Section 502.325 of this Part.
- <u>Requirements to comply with the livestock waste discharge limitations in Subparts F, G and H of this Part, if applicable.</u>

((Source: Add	ed at	III. Rea.	. effective

Section 502.320 Recordkeeping Requirements

The permittee must create, maintain for five years, and make available to the Agency, upon request, the following records:

- <u>A copy of all applicable records identified pursuant to Section</u> 502.510(b)(15);
- b) A copy of the information required under Section 502.201;
- <u>Records documenting the visual inspections required under Section</u> 502.610(c);
- <u>Weekly records of the depth of the manure and process wastewater in</u>
 <u>the liquid livestock waste storage as indicated by the depth marker under</u>
 Section 502.610(d);

- e) Records documenting any actions taken to correct deficiencies required under Sections 502.610(e) and (f). Deficiencies not corrected within 30 days must be accompanied by an explanation of the factors preventing immediate correction;
- f) Records of mortalities management and practices used by the facility to meet the requirements of Section 502.610(g);
- g) Records documenting the current design of any livestock waste storage structures, including volume for solids accumulation, design treatment volume, total design volume, and approximate number of days of storage capacity;
- h) Records of the date, time, and estimated volume of any overflow;
- i) A copy of the facility's site-specific nutrient management plan;
- <u>i)</u> <u>Expected crop yields for land application areas;</u>
- <u>k)</u> The date(s) livestock waste is applied to each land application area;
- Copies of contracts for the transfer of waste to other persons consistent with Section 502.610 (k);
- Records documenting subsurface drainage inspections conducted according to the plan developed pursuant to Section 502.510(b)(13);
- **nm**) Results from livestock waste and soil sampling:
- <u>on</u>) <u>Explanation of the basis for determining livestock waste application rates;</u>
- <u>Calculations showing the total nitrogen and phosphorus to be applied to each field, including sources other than livestock waste;</u>
- Total amount of nitrogen and phosphorus actually applied to each field, including documentation of calculations for the total amount applied;
- re) The method used to apply the livestock waste;
- ST) Date of livestock waste application equipment inspection;
- Maximum number and type of animals, whether in open confinement or housed under roof by the following types: beef cattle, broilers, layers, swine weighing 55 pounds or more, swine weighing less than 55 pounds, mature dairy cows, dairy heifers, veal calves, sheep and lambs, horses, turkeys, ducks, other;
- <u>ut)</u> All records necessary to prepare the annual report required by Section 502.325;

- Total number of acres of land application area covered by the nutrient management plan;
- The quantity of livestock waste removed when a manure storage area or waste containment area is dewatered;
- The permittee will record the following information for each day during which livestock wastes are applied to land:
 - 1) the amount applied to each field in either gallons, wet tons or dry tons per acre,
 - 2) <u>soil water conditions at the time of application (such as dry, saturated, flooded, frozen, snow-covered),</u>
 - an estimate of the amount of precipitation 24 hours prior to, and for 24 hours after the application,
 - 4) the type of application method used (surface, surface with incorporation, or injection),
 - <u>5)</u> the location of the field where livestock waste was applied,
 - 6) the results of leak inspection of livestock waste application equipment,
 - the name and address of off-site recipients of livestock waste, the amount of waste transferred to each off-site recipient in gallons or dry tons, off-site location on a topographic map and acreage of each site used by the off-site recipient,
 - 8) Weather conditions, including precipitation, air temperature, wind speed, wind direction and dew point, at time of land application and for 24 hours prior to and for 24 hours following application, and
 - 9) Records of the weather forecasts required to be maintained pursuant to Sections 502.620(d) and 502.630(b)(3), (4), and (5);
- The laboratory analysis sheets reporting the analysis of the livestock waste samples shall be kept on file at the facility for the term of this permit and for 5 years after expiration of the permit; and
- Records documenting the test methods and sampling protocols for manure, litter and process wastewater and soil analyses.

(Source: Added at	III.Reg	, effective	
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Section 502.325 Annual Report

a) The NPDES permit must specify annual reporting requirements for the CAFO. The annual report must be submitted to the Agency.

- <u>b)</u> The annual report must contain the following minimum elements:
 - 1) Maximum number and type of animals, whether in open confinement or housed under roof by the following types: beef cattle, broilers, layers, swine weighing 55 pounds or more, swine weighing less than 55 pounds, mature dairy cows, dairy heifers, veal calves, sheep and lambs, horses, turkeys, ducks, other;
 - 2) Quantity of livestock waste generated by the facility in the previous 12 months (tons/gallons);
 - 3) Quantity of livestock waste transferred to (an)other person(s) by the facility in the previous 12 months (tons/gallons), including the name of the transferee(s) and the date(s) of transfer;
 - 4) Total number of acres of land application area covered by the nutrient management plan;
 - 5) Total number of acres under the control of the CAFO that were used for land application of livestock waste in the previous 12 months;
 - A statement indicating whether the current version of the CAFO's nutrient management plan for land application of livestock waste was developed or approved by a certified nutrient management planner and by whom the certification was issued;
 - 7) Summary of all livestock waste discharges from the production area that have occurred in the previous 12 months, including date, time, and approximate volume;
 - 8) A report of instances of non-compliance with the NPDES permit in the previous 12 months;
 - 9) The actual crops planted and actual yields for each field;
 - 10) The actual nitrogen and phosphorus content of the livestock waste;
 - 11) The results of calculations conducted in accordance with Sections 502.515(d)(3) and (e)(3);
 - 12) The amount of livestock waste land applied to each field during the previous 12 months; and
 - For any CAFO that implements a nutrient management plan that addresses rates of application in accordance with Section 502.515(e):
 - a) the results of any soil testing for nitrogen and phosphorus

		taken during the preceding 12 months,
	<u>b)</u>	data used in calculations conducted in accordance with Section 502.515(e)(3), and
	<u>c)</u>	the amount of any supplemental fertilizer applied during the previous 12 months.
(Sourc	e: Added at	Ill. Reg
SUBPART		MENTS FOR DEVELOPING AND IMPLEMENTING TRIENT MANAGEMENT PLANS
Section 502.5	500 Purpo	ose, Scope and Applicability
The requirem phosphorus to plan.	ents in this Sub waters of the	opart are intended to minimize the transport of nitrogen and United States in compliance with the nutrient management
<u>a)</u>	NPDES perm 502.500(a) ar agricultural st consistent with subject to the	ents in this Subpart apply to CAFOs required to obtain an it. Unpermitted Large CAFOs, are subject to sections and 502.510(b). Unpermitted Large CAFOs claiming an tormwater exemption from NPDES permit requirements in Section 502.102, must demonstrate to the Agency are requirements of in-Section 502.505; 502.510(b) and ugh 502.645 have been met.
<u>b)</u>	site specific n identify and c compliance w	wner or operator shall develop, submit and implement a nutrient management plan. This plan shall specifically describe practices that will be implemented to assure with this Subpart and the livestock waste discharge ditechnical standards of Subparts F, G, and H.
(Sourc	xe: Added at	_ III. Reg, effective)
Section 502.5	05 Nutrie	ent Management Plan Information
The nutrient n	nanagement pla	an shall contain, at a minimum, the following items:
<u>a)</u>	Name, addres	s, and phone number of the owners of the CAFO;
<u>b)</u>	Name, addres different than	s, and phone number of the managers or operators if the owners;
<u>c)</u>	Address, phor	ne number, and plat location of the CAFO production area;
<u>d)</u>	statement indi	person who developed the nutrient management plan and a cating whether it was developed or approved by a certified agement planner and by whom the certification was issued;

- e) Type of waste storage for the CAFO;
- f) Species, size and maximum number of animals at the CAFO;
- g) Scaled aerial photos or maps depicting each field available and intended for livestock waste applications with available acreage listed and indicating residences, non-farm businesses, common places of assembly, streams, wells, waterways, lakes, ponds, rivers, drainage ditches, subsurface drainage systems, other water sources, 10-year flood plain, buffers, slope, locations of structural BMPs, setbacks and areas restricted from application by this Subpart E;
- h) For land application areas not owned or rented or otherwise under the control of the owner or operator, copies of contracts statement of consent between the owner or operator of the livestock facilities and the owner of the land where livestock waste will be applied consistent with Section 502.610(k);
- i) Cropping schedule for each field for the past year, anticipated crops for the current year, and anticipated crops for the five year term of the permit;
- j) Realistic crop yield goal for each crop in each field;
- <u>An estimate of the nutrient value of the livestock waste or results of livestock waste analysis determined pursuant to Section 502.625(c);</u>
- <u>l)</u> <u>Livestock waste application methods;</u>
- m) Results of the Bray P1 or Mehlich 3 test for soil phosphorus reported in pounds of elemental phosphorus per acre. If the livestock waste is to be land applied based on a single year or multi-year phosphorus application on the land application area, the following items must be provided;
 - 1) An estimate of the volume of livestock waste to be disposed of annually,
 - 2) The phosphorus content of the livestock waste,
 - The phosphorus amount needed for each crop in the planned crop rotation, expressed as pounds of P₂O₅ per acre, obtained from the Illinois Agronomy Handbook, 24th Edition, incorporated by reference at Section 501.200, and
 - 4) The maximum livestock waste application rate based on phosphorus for each field, determined pursuant to Section 502.625(g).

<u>n)</u>	Calcu	lations showing the following;
	<u>1)</u>	An estimate of the volume of livestock waste to be disposed of annually,
	<u>2)</u>	Nitrogen loss due to the method of storage, if applicable,
	<u>3)</u>	Amount of nitrogen available for application,
	<u>4)</u>	Nitrogen loss due to the method of application,
	<u>5)</u>	Amount of plant-available nitrogen including first-year mineralization of organic nitrogen,
	<u>6)</u>	Amount of nitrogen required by each crop in each field based on realistic crop yield goal,
	<u>7)</u>	Nitrogen credits from previous crops, from other sources of fertilizer applied for the growing season, and from any livestock waste applications during the previous three years for each field,
	<u>8)</u>	Livestock waste application rate based on nitrogen for each field, and
	<u>9)</u>	Land area required for application.

(Source: Added at __ III. Reg. _____, effective _____)

Section 502.510 Nutrient Management Plan Requirements

o)

each field.

a) Any permit issued to a CAFO must include a requirement to implement a nutrient management plan by the date of permit coverage that, at a minimum, contains best management practices necessary to meet the requirements of this Section and the applicable livestock discharge limitations and technical standards in 35 Ill. Adm. Code Parts 501 and 502.

A listing of fields and the planned livestock waste application amounts for

- b) The nutrient management plan must specify and demonstrate:
 - 1) The livestock waste application rate of nitrogen in a single year and phosphorus in a single year or multiple years, not to exceed the single year crop nitrogen and single year or multi-year phosphorus requirements for realistic crop yield goals in the

rotation;

- Adequate land application area for livestock waste application, including land owned or controlled by a person other than the CAFO owner or operator;
- 3) Adequate storage of livestock waste, including procedures to ensure proper operation and maintenance of the storage facilities;
- 4) Proper management of mortalities to ensure that they are not disposed of in a liquid livestock waste or stormwater storage or treatment system that is not specifically designed to treat animal mortalities;
- 5) That clean water is diverted, as appropriate, from the production area:
- 6) Prevention of direct contact of confined animals with waters of the United States;
- 7) That chemicals and other contaminants handled on-site are not disposed of in any livestock waste or stormwater storage or treatment system unless specifically designed to treat such chemicals and other contaminants:
- 8) Appropriate site specific conservation practices to be implemented, including as appropriate buffers or equivalent practices, to control runoff of pollutants to waters of the United States;
- 9) Protocols for appropriate testing of livestock waste and soil.

 <u>Livestock waste must be analyzed a minimum of once annually for nitrogen and phosphorus content, and soil analyzed a minimum of twice every five years for phosphorus content. The results of these analyses are to be used in determining application rates for livestock wastes;</u>
- 10) Protocols to land apply livestock waste in accordance with sitespecific nutrient management practices that ensure appropriate agricultural utilization of the nutrients in the livestock waste;
- Livestock waste shall not be applied within the distance from residences provided in Section 502.645(a) and within the areas prohibited from land application by this Part;
- 12) A winter time land application plan that meets the requirements of Section 502.630 of this Part;
- 13) The plan for the inspection, monitoring, management and repair of subsurface drainage systems at the livestock waste application site. Inspection of subsurface drainage systems shall include visual inspection prior to land application to determine failures

- that may cause discharges and visual inspection after land application to identify discharges;
- 14) A spill prevention and control plan;
- Specific records that will be maintained to document the implementation and management of the minimum elements described in subsections (12) through (14) of this Section; and
- A description of the storage provisions and schedules provided for livestock waste when cropping practices, soil conditions, weather conditions or other conditions prevent the application of livestock waste to land or prevent other methods of livestock waste disposal.

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Section 502.515 Terms of Nutrient Management Plan

Any permit issued to a CAFO must require compliance with the terms of the CAFO's site-specific nutrient management plan. These terms include:

- a) The terms of the nutrient management plan are the information, protocols, best management practices, and other conditions in the nutrient management plan determined by the Agency to be necessary to meet the requirements of Sections 502.505 and 502.510.
- b) The terms of the nutrient management plan, with respect to protocols for land application of livestock waste as required by Subpart F, must include:
 - 1) the fields available for land application;
 - <u>field-specific rates of application properly developed pursuant to subsections (d) or (e) of this Section, to ensure appropriate agricultural utilization of the nutrients in the livestock waste; and</u>
 - <u>any timing limitations identified in the nutrient management plan</u> concerning land application on the fields available for land application.
- <u>The terms of the nutrient management plan must address rates of application using either the Linear Approach as described in subsection (d) of this Section or the narrative rate approach as described in subsection (e) of this Section, unless the Agency specifies that only one of these approaches may be used.</u>
- d) The Linear Approach is an approach that expresses rates of application as pounds of nitrogen and phosphorus, according to the following specifications:

- 1) The terms include maximum application rates from livestock waste for each year of permit coverage, for each crop identified in the nutrient management plan, in chemical forms determined to be acceptable to the Agency, in pounds per acre, per year, for each field to be used for land application, and certain factors necessary to determine such rates.
- 2) At a minimum, the factors that are terms must include:
 - A) the outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field:
 - B) the crops to be planted in each field or any other uses of a field such as pasture or fallow fields;
 - the realistic yield goal for each crop or use identified for each field;
 - <u>D)</u> the nitrogen and phosphorus recommendations according to Section 502.625 for each crop or use identified for each field;
 - <u>E)</u> <u>credits for all nitrogen in the field that will be plant</u> available;
 - <u>F)</u> consideration of multi-year phosphorus application;
 - <u>accounting for all other additions of plant available</u> nitrogen and phosphorus to the field;
 - H) the form and source of livestock waste to be land-applied;
 - 1) the timing and method of land application; and
 - <u>J)</u> the methodology by which the nutrient management plan accounts for the amount of nitrogen and phosphorus in the livestock waste to be applied.
- 3) CAFOs that use this linear approach must calculate the maximum amount of livestock waste to be land applied at least once each year using the results of the most recent representative livestock waste tests for nitrogen and phosphorus taken within 12 months of the date of land application required by Section 502.635.
- e) The narrative rate approach is an approach that expresses rates of application as a narrative rate of application that results in the amount, in tons or gallons, of livestock waste to be land applied, according to the provisions of this subsection (e).
 - 1) The terms include:

- A) maximum amounts of nitrogen and phosphorus derived from all sources of nutrients, for each crop identified in the nutrient management plan, in chemical forms determined to be acceptable to the Agency, in pounds per acre, for each field, and certain factors necessary to determine such amounts;
- B) the outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field;
- <u>C)</u> the crops to be planted in each field or any other uses such as pasture or fallow fields including alternative crops identified in accordance with subsection (e)(1)(G) of this Section;
- <u>D)</u> the realistic yield goal for each crop or use identified for each field;
- E) the nitrogen and phosphorus recommendations according to Section 502.625 for each crop or use identified for each field;
- F) the methodology by which the nutrient management plan accounts for the following factors when calculating the amounts of livestock waste to be land applied:
 - i) results of soil tests conducted in accordance with protocols identified in the nutrient management plan, as required by Section 502.510(b)(9);
 - <u>ii)</u> <u>credits for all nitrogen in the field that will be</u> plant available;
 - <u>iii)</u> the amount of nitrogen and phosphorus in the livestock waste to be applied;
 - <u>iv)</u> <u>consideration of multi-year phosphorus</u> <u>application;</u>
 - v) accounting for all other additions of plant nitrogen and phosphorus to the field;
 - vi) the form and source of livestock waste;
 - vii) the timing and method of land application; and
 - viii) volatilization of nitrogen and mineralization of organic nitrogen.
- <u>alternative crops identified in the CAFO's nutrient</u> management plan that are not in the planned crop rotation.

- i) Where a CAFO includes alternative crops in its nutrient management plan, the crops must be listed by field, in addition to the crops identified in the planned crop rotation for that field, and the nutrient management plan must include realistic crop yield goals and the nitrogen and phosphorus recommendations according to Section 502.625 for each crop.
- ii) Maximum amounts of nitrogen and phosphorus from all sources of nutrients and the amounts of livestock waste to be applied must be determined in accordance with the methodology described in subsections (e)(1)(A) through (F) of this Section.
- 2) For CAFOs using this narrative approach, the following projections must be included in the nutrient management plan submitted to the Agency, but are not terms of the nutrient management plan:
 - A) the CAFO's planned crop rotations for each field for the period of permit coverage;
 - B) the projected amount of livestock waste to be applied;
 - <u>C)</u> <u>projected credits for all nitrogen in the field that will be plant available;</u>
 - D) consideration of multi-year phosphorus application;
 - <u>accounting for all other additions of plant available</u> nitrogen and phosphorus to the field;
 - F) the predicted form, source, and method of application of livestock waste for each crop; and
 - <u>timing of application for each field, insofar as it concerns</u> the calculation of rates of application, is not a term of the nutrient management plan.
- CAFOs that use this narrative rate approach must calculate maximum amounts of livestock waste to be land applied at least once each year using the methodology required in subsections (e)(1)(A) through (F) of this Section before land applying livestock waste and must rely on the following data:
 - <u>A)</u> a field-specific determination of nitrogen that will be plant available consistent with the methodology required by subsections (e)(1)(A) through (F) of this Section, and for phosphorus, the results of the most recent soil test conducted in accordance with soil testing requirements approved by the Agency; and

<u>B)</u>	the results of most recent representative livestock waste
•	tests for nitrogen and phosphorus taken within 12 months
	of the date of land application, in order to determine the
	amount of nitrogen and phosphorus in the livestock waste
	to be applied.
	

((Source: Added a	t III. Reg.	. effective

Section 502.520 Changes to the Nutrient Management Plan

When a CAFO owner or operator makes changes to the CAFO's nutrient management plan previously submitted to the Agency, the procedures in this Section are applicable.

- a) The CAFO owner or operator must identify changes to the nutrient management plan, except that the results of calculations made in accordance with the requirements of Sections 502.515(d)(3) and 502.515(e)(3) of this Part are not subject to the requirements of this Section. These calculations may be revised without submittal to the Agency provided the calculation revisions do not change the terms of the nutrient management plan.
- b) The Agency must determine whether the changes to the nutrient management plan necessitate revision to the terms of the nutrient management plan incorporated into the permit issued to the CAFO.
 - 1) If revision to the terms of the nutrient management plan is not necessary, the Agency must notify the CAFO owner or operator and upon such notification the CAFO may implement the revised nutrient management plan.
 - 2) If revision to the terms of the nutrient management plan is necessary, the Agency must determine whether such changes are substantial changes as described in subsection (d) of this Section.
 - 3) If the Agency determines that the changes to the terms of the nutrient management plan are not substantial, the Agency must notify the owner or operator and inform the public of any changes to the terms of the nutrient management plan that are incorporated into the permit.
- c) If the Agency determines that the changes to the terms of the nutrient management plan are substantial, the Agency must notify the public and make the proposed changes and the information submitted by the CAFO owner or operator available for public review and comment.
 - The process and time limits for submitting public comments and hearing requests, the hearing process if a request for a hearing is granted and the process for responding to significant comments received during the comment period, will follow the procedures applicable to draft general permits found in 35 III. Adm. Code 502.310(d) through (f).

- 2) The Agency will require the CAFO owner or operator to further revise the nutrient management plan, if necessary, in order to approve the revision to the terms of the nutrient management plan incorporated into the CAFO's permit.
- 3) Once the Agency incorporates the revised terms of the nutrient management plan into the permit, the Agency must notify the owner or operator and inform the public of the final decision concerning the revisions to the terms and conditions of the permit.
- <u>Substantial changes to the terms of the nutrient management plan incorporated as terms and conditions of a permit include, but are not limited to:</u>
 - Addition of new land application areas not previously included in the CAFO's nutrient management plan. Except if the land application area that is being added to the nutrient management plan is covered by the terms of a nutrient management plan incorporated into an existing NPDES permit in accordance with the requirements of Section 502.515, and the CAFO owner or operator applies livestock waste on the newly added land application area in accordance with the existing field-specific permit terms applicable to the newly added land application area, such addition of new land would be a change to the new CAFO owner or operator's nutrient management plan but not a substantial change for purposes of this Section;
 - 2) For nutrient management plans using the Linear Approach as set forth in Section 502.515(d) changes to the field-specific maximum annual rates of land application (pounds of nitrogen and phosphorus from livestock waste). For nutrient management plans using the narrative rate approach, changes to the maximum amounts of nitrogen and phosphorus derived from all sources for each crop;
 - Addition of any crop or other uses not included in the terms of the CAFO's nutrient management plan and corresponding field-specific rates of application expressed in accordance with Section 502.515 of this Part; and
 - 4) Changes to site-specific components of the CAFO's nutrient management plan, where such changes are likely to increase the risk of nitrogen and phosphorus transport to waters of the United States.

	(Source: Added a	t III. Reg.	, effective	١
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SUBPART F: LIVESTOCK WASTE DISCHARGE LIMITATIONS AND TECHNICAL STANDARDS

Section 502.600 Applicability

This Subpart provides livestock waste discharge limitations and technical standards for permitted CAFOs. Permitted CAFOs must achieve the livestock waste discharge limitations and technical standards in this Subpart as of the date of permit coverage. Unpermitted Large CAFOs must achieve the livestock waste discharge limitations and technical standards of 502.610(k) and 502.615 through 502.645claiming an agricultural stormwater exemption consistent with Section 502.102 are also subject to portions of this Subpart. This Subpart does not apply to CAFOs that stable or confine Horses, Sheep or Ducks. Horses or Sheep CAFOs are subject to applicable production area livestock waste discharge limitations and technical standards found in Section 502.720. CAFOs that confine Ducks in either a Dry Lot or Wet Lot are subject to applicable production area livestock waste discharge limitations and technical standards found in Section 502.730.

(Source: Added at	III. Reg.	. effective	,
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Section 502.605 Livestock Waste Discharge Limitations for the Production Area for Permitted CAFOs

- a) Except as provided in subsections (a)(1), (a)(2) and (c) of this Section, there must be no discharge of livestock wastes into waters of the United States from the CAFO production area. Whenever precipitation causes an overflow of livestock wastes from the containment or storage structure, such wastes in the overflow may be discharged into waters of the United States provided:
 - 1) The production area is designed, constructed, operated and maintained to contain all livestock wastes including the runoff and the direct precipitation from a 25-year, 24-hour precipitation event except for large swine, poultry or veal CAFOs that are new sources which must comply with Subpart H of this Part, and
 - 2) The production area is operated in accordance with the additional measures and records required by Section 502.610.
- b) Any point source subject to this Subpart must achieve the livestock waste discharge limitations in this Section as of the date of the permit coverage.
- Voluntary alternative performance standards. Any CAFO subject to this Subpart may request the Agency to establish NPDES permit livestock waste discharge limitations based upon site-specific alternative technologies that achieve a quantity of pollutants discharged from the production area equal to or less than the quantity of pollutants that would be discharged under the baseline performance standards as provided by Section 502.605(a).
 - 1) In requesting site-specific livestock waste discharge limitations to be included in the NPDES permit, the CAFO owner or operator must submit a supporting technical analysis and any other relevant information and data that would support such site-

- specific livestock waste discharge limitations within the time frame provided by the Agency.
- The supporting technical analysis must include calculation of the quantity of pollutants discharged, on a mass basis where appropriate, based on a site-specific analysis of a system designed, constructed, operated, and maintained to contain all livestock waste, including the runoff from a 25-year, 24-hour rainfall event.
- 3) The technical analysis of the discharge of pollutants must include:
 - A) all daily inputs to the storage system, including livestock waste, direct precipitation, and runoff;
 - B) all daily outputs from the storage system, including losses due to evaporation, sludge removal, and the removal of wastewater for use on cropland at the CAFO or transport off site;
 - a calculation determining the predicted median annual overflow volume based on a 25-year period of actual rainfall data applicable to the site;
 - D) site-specific pollutant data, including nitrogen, phosphorus, BOD₅ and total suspended solids, for the CAFO from representative sampling and analysis of all sources of input to the storage system, or other appropriate pollutant data; and
 - <u>expressed where appropriate as a mass discharge on a daily basis (lbs/day), and calculated considering subsections (c)(3)(A) through (D) of this subsection.</u>
- 4) The Agency has the discretion to request additional information to supplement the supporting technical analysis, including inspection of the CAFO.

(Source: Added at	III Rea	effective	,

Section 502.610 Additional Measures for CAFO Production Areas

Each CAFO subject to this Subpart must implement the following:

- a) The CAFO owner or operator must at all times properly operate and maintain all structural and operational aspects of the facilities including all systems for livestock waste treatment, storage, management, monitoring and testing.
- b) <u>Livestock within a CAFO production area shall not come into contact</u> with waters of the <u>United States</u>.

- c) Visual inspections. There must be routine visual inspections of the CAFO production area. At a minimum, the following must be visually inspected:
 - 1) Weekly inspections of all stormwater diversion devices, runoff diversion structures, and devices channeling contaminated stormwater to the wastewater and manure storage and containment structure;
 - 2) <u>Daily inspection of water lines in the production areas, including drinking water or cooling water lines; and</u>
 - 3) Weekly inspections of the livestock waste storage facilities. The inspection will note the level in liquid livestock waste storage facility using the depth marker required in subsection (d) of this Section.
- Depth marker. All open surface liquid livestock waste storage facilities must have a depth marker which clearly indicates the minimum capacity necessary to contain the runoff and direct precipitation of the 25-year, 24-hour rainfall event. In the case of new sources subject to livestock waste discharge limitations established pursuant to Section 502.830 of this Part, all open surface livestock waste storage structures associated with such sources must include a depth marker which clearly indicates the minimum capacity necessary to contain the maximum runoff and direct precipitation associated with the design storm used in sizing the storage facility for no discharge.
- e) <u>Corrective actions. Any deficiencies found as a result of these inspections must be corrected as soon as possible.</u>
- f) In addition to the requirement in subsection (e) of this Section, deficiencies not corrected within 30 days must be accompanied by an explanation of the factors preventing immediate correction.
- Discharge to waters of the United States of pollutants from dead livestock or dead animal disposal facilities are prohibited. Dead livestock and water contaminated by dead livestock shall not be disposed in the liquid manure storage structures, egg wash wastewater facilities, egg processing wastewater facilities, or areas used to hold products, by-products or raw materials that are set aside for disposal, or contaminated stormwater facilities, other than facilities used solely for disposal of dead livestock.
- h) Chemicals and other contaminants shall not be disposed of in any livestock waste or stormwater storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- i) A CAFO owner or operator utilizing an earthen lagoon or other earthen manure storage area or waste containment area shall inspect all berm tops, exterior berm sides, and non-submerged interior berm sides for

- evidence of erosion, burrowing animal activity, and other indications of berm degradation on a frequency of not less than once every week.
- j) The CAFO owner or operator shall perform periodic removal of livestock waste solids from liquid manure storage areas and the waste containment area to maintain proper operation of the storage structures. Soils that are contaminated with livestock waste removed from earthen manure storage structures shall be considered livestock waste.
- k) Requirements relating to transfer of livestock waste to other persons.
 - 1) In cases where livestock waste is sold, given away, or otherwise transferred to other persons and the land application of that waste is not under the operational control of the CAFO owner or operator that generates the waste, the owner or operator shall enter into signed contractual agreements with the other persons to accept the waste, which shall cover the period of time the persons will accept the waste.
 - 2) The owner or operator shall use a written contract that documents all of the following information:
 - A) The owner or operator's name, mailing address, and telephone number;
 - B) The name and address of the recipient of the livestock waste:
 - C) The nutrient content of the livestock waste to be used in determining appropriate land application rates;
 - D) The total quantity of livestock waste (tons/gallons) to be transferred;
 - E) A statement that informs the person of his or her responsibility to comply with state land application rules and manage the waste to minimize the discharge of pollutants to waters of the State;
 - F) The following certification: "I hereby declare that the livestock waste is accurately described above and is suitable for land application;"
 - G) Address or other description of the final destination of the livestock waste, including the amount of acreage available for land application if the waste is to be land applied;
 - H) Signature and date lines.
 - 3) The owner or operator shall do all of the following with respect to the contract or letter of intent:

- (A) Retain 1 copy of the contract:
- (B) Give the remaining copies to the transferee and the Agency:
- Prior to transferring livestock waste off-site to other persons,

 CAFOs must provide the recipient of the livestock waste with the most current nutrient analysis.
- The analysis provided must be consistent with applicable requirements to sample livestock wastes in Section 502.635(b).
- CAFOs must retain for five years copies of waste transfer contracts and records of the date, recipient name and address, and approximate amount of livestock waste transferred to another person.
- Livestock Waste Storage requirements
 - 1) Livestock waste storage structures at the CAFO production area shall be designed to contain a volume equal to or greater than the sum of the volumes of the following:
 - A) the amount of waste generated during a 180-day period of operation at design capacity;
 - B) the runoff volumes generated during a 180-day period, including all runoff and precipitation from lots, roofs and other surfaces where precipitation is directed into the storage structure;
 - C) the volume of all wash down liquid generated during the 180-day period that is directed into the manure storage structure;
 - <u>D)</u> the volume of runoff and precipitation directed to the storage structure during a 25 year, 24 hour storm event;
 - <u>E)</u> <u>the design volatile solids loading volume, if applicable;</u>
 - F) the sludge accumulation volume, if applicable; and
 - <u>a freeboard of 2 feet, except for structures with a cover or otherwise protected from precipitation.</u>
 - The storage volume requirements in this subsection (I) do not apply to pump stations, settling tanks, pumps, piping or other components of the CAFO production area that temporarily hold or transport waste to a storage facility meeting the requirements of this subsection.

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Section 502.	615	Nutrier	nt Transport	Potential		
<u>a)</u>	nitroq be co The f	gen and ph Inducted a Iollowing t gen and ph	nosphorus tra nd the results factors must l	ensport fro s contained be identifi	assessment of the m the field to surfa d in the nutrient ma ed for each field to ential to waters of	ace waters must anagement plan. o determine
	<u>1)</u>	Soil typ	<u>e,</u>			
	<u>2)</u>	Slope,				
	<u>3)</u>	Conserv	ation practice	es,		
	<u>4)</u>	Soil ero	dibility or pot	tential for	soil erosion,	
	<u>5)</u>	Soil test	t phosphorus,			
	<u>6)</u>	Tile inle	et locations,			
	<u>7)</u>	Distance	e to surface w	vaters,		
	<u>8)</u>	<u>Proximi</u>	ty to wells, an	<u>nd</u>		
	<u>9)</u>	Location paths.	n of conduits	to surface	water including pro	eferential flow
<u>b</u>)	subsectivest (c) or	ection (a) of the contraction (a) of the contraction (a) ock waste	of this Section len based app of phosphorus on an assess is Section and	n to deterr dication rassbased or sed field m	sessment information mine the appropriat te for each assessed nitrogen-based app must be consistent w 502.620, 502.625,	te phosphorus- d field. The plication of vith subsection
<u>c</u>)			lapplication of the following		k waste must be co nents:	onducted_

livestock waste is applied consistent with the setback requirements in Section 502.645;

available soil phosphorus (Bray P1 or Mechlich 3) is equal to or less than 200 300 pounds per acre;

<u>1)</u>

<u>2)</u>

- 3) the soil loss is less than the erosion factor T calculated using the Revised Universal Soil Loss Equation 2, found at http://fargo.nserl.purdue.edu/rusle2_dataweb/RUSLE2_Index.htm;
- 4) if conduits on the field are less than 400 feet from surface waters, the setback requirements in 502.645(b)(2) do not apply. Instead the following setbacks apply:
 - A) Livestock waste application shall be conducted no closer than 150 feet from a tile inlet, agricultural well head, sinkhole, or edge of a ditch that has no vegetative buffer; or
 - B) Livestock waste application shall be conducted no closer than 50 feet from a tile inlet, agricultural well head, sinkhole, or edge of a ditch that has a 50 foot vegetative buffer or 50 feet from the center of a grass waterway.

These setbacks do not apply if the CAFO is able to demonstrate to the Agency that a setback or buffer is not necessary because implementation of alternative conservation practices (including, but not limited to, injection and incorporation) or field-specific conditions will provide pollutant reductions equivalent or better than the reductions that would be achieved by the 150-foot setback.

- 5) if conduits on the field are greater than 400 feet from surface waters, the setback requirements in Section (c)(4) do not apply:
- where surface waters are on the assessed field or within 200 feet of the field, the livestock waste applied to the field shall be injected or incorporated within 24 hours of the application or equivalent conservation practices must be installed and maintained on the field pursuant to the United States Department of Agriculture

 Natural Resources Conservation Service practice standards; and
- 7) if nitrogen-based application cannot be conducted in accordance with this Section, then phosphorus-based application must be conducted as specified in Section 502.615(d).
- d) Phosphorus-based application of livestock waste must be conducted consistent with the following requirements:
 - 1) livestock waste must be applied consistent with the setback requirements in Section 502.645;

- <u>2)</u> the livestock waste application rate must not exceed the annual agronomic nitrogen demand of the next crop grown as provided in Section 502.625(a);
- <u>if the soil contains greater than 50 pounds of available soil</u> phosphorus per acre (Bray P1 or Mechlich 3), phosphorus-based <u>application rates must be neutral during the nutrient management</u> plan period;
- 4) if the soil contains greater than 200 300 pounds of available soil phosphorus per acre (Bray P1 or Mechlich 3), the amount of phosphorus applied in the livestock waste must not exceed the amount of phosphorus removed by the next year's crop grown and harvested; and
- 5) livestock waste shall not be applied to fields with available soil phosphorus (Bray P1 or Mechlich 3) greater than 400 pounds per acre.

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Section 502.620 Protocols to Land Apply Livestock Waste

- a) Livestock wastes shall not be applied to waters of the United States.

 Livestock waste application shall not cause runoff to waters of the

 United States during non-precipitation events. Livestock waste
 application shall not occur on land that is saturated at the time of
 application. Livestock waste shall not be applied onto land with ponded
 water.
- b) Discharge of livestock waste to waters of the United States or off-site during dry weather through subsurface drains is prohibited.
- <u>Livestock waste shall not be applied during precipitation when runoff of livestock waste will be produced.</u>
- d) Surface land application of livestock waste shall not occur within 24 hours preceding a forecast of 0.5 inches or more of precipitation in a 24 hour period as measured in liquid form. The CAFO owner or operator shall use one of the two methods provided below for determining whether or not these conditions exist and shall maintain a record of the forecast from the source used.
 - A prediction of a 60 percent or greater chance of 0.5 inches or more of precipitation in a 24 hour period as measured in liquid form by the National Weather Service at http://www.nws.noaa.gov/mdl/forecast/graphics/MAV/ for the location nearest to the land application area; or
 - A prediction of 0.5 inches or more of precipitation in a 24 hour period as measured in liquid form and identified as higher than QPF category 3 by the National Weather Service at

http://www.nws.noaa.gov/mdl/synop/products/bullform.mex.htm for the land application area location.

- e) Determination of soil loss must be made for each field using Revised
 Universal Soil Loss Equation 2 at
 http://fargo.nserl.purdue.edu/rusle2_dataweb/RUSLE2_Index.htm that
 accounts for changes in factors affecting runoff, soil erodibility, slope
 length, slope steepness, cover management and supporting practices.
- Surface land application may be used when the land slope is no greater than 5% or when the yearly average soil loss is equal to or less than 5 tons per acre per year or erosion factor T, whichever is less, regardless of slope, as determined by the Revised Universal Soil Loss Equation 2, at http://fargo.nserl.purdue.edu/rusle2 dataweb/RUSLE2 Index.htm. Injection or incorporation within 24 hours shall be used when the land slope is greater than 5% and the yearly average soil loss is greater than 5 tons per acre per year or erosion factor T, whichever is less.
- g) <u>Land application of livestock waste is prohibited on slopes greater than</u> 15%.
- h) Liquid livestock waste shall not be applied to land with less than 10 inches of soil covering fractured bedrock, sand or gravel.
- i) Livestock waste shall not be applied to bedrock outcrops.
- j) <u>Livestock waste shall be applied at no greater than 50 percent of the agronomic nitrogen rate determined pursuant to Section 502.625 when there is less than 20 inches of unconsolidated material over bedrock.</u>
- k) Livestock waste shall be applied at no greater than 50 percent of the agronomic nitrogen rate determined pursuant to Section 502.625 when the minimum soil depth to seasonal high water table is less than or equal to 2 feet.
- Livestock waste shall not be applied at rates that exceed the infiltration rates of the soil.
- m) Liquid livestock waste shall not be applied to land with subsurface drainage when macropores are present.

(Source: Added at	III. Reg.	, effective)
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Section 502.625 Determination of Livestock Waste Application Rates

a) Livestock waste application shall not exceed the agronomic nitrogen rate, which is defined as the annual application rate of nitrogen that can be expected to be required for a realistic crop yield goal. Multi-year phosphorus application is allowed when such application is specified in a nutrient management plan and meets the requirements in Section 502.615.

Any such application must be consistent with nutrient management plan

- requirements. The agronomic rate must be determined in a manner consistent with this Section and Section 502.615.
- b) Livestock Waste Volumes. The estimate of the annual volume of available livestock waste for application shall be obtained by multiplying the number of animals constituting the maximum design capacity of the facility by the appropriate amount of waste generated by the animals. The following sources may be used to obtain the amount of waste generated: Livestock Waste Facilities Handbook, Third Edition, Table 2-1, incorporated by reference at 35 III. Adm. Code 501.200, or 35 III. Adm. Code 560, Table 1. For purposes of this section, "maximum design capacity" means the maximum number of animals that can be housed at any time for a minimum of 45 days at a CAFO.
- <u>c)</u> Nutrient Value of Livestock Waste. For new livestock facilities that have not generated livestock waste, the owner or operator must prepare a plan based on an average of the minimum and maximum numbers in the table values derived from Livestock Waste Facilities Handbook. Third Edition, (Table 2-1, 10-6, or 10-7), or Manure Characteristics, incorporated by reference at 35 III. Adm. Code 501.200, or the 35 III. Adm. Code 560, Table 1 or Table 2. If "as produced" or "as excreted" nutrient values are used, the nitrogen value shall be adjusted to account for losses due to the type of storage system utilized using an average of the ranges in Livestock Waste Facilities Handbook, Third Edition, Table 10-1. Other sources of nutrient values may be used if approved by the Agency. Owners or operators of existing livestock facilities, must prepare the plan based on representative sampling and analysis of the livestock waste generated by the CAFOs in accordance with Section 502.635(b).
- <u>Adjustments to Nitrogen Availability. Adjustments shall be made to nitrogen availability to account for the following:</u>
 - 1) Nitrogen loss from livestock waste due to method of application, based on an average of the ranges in Livestock Waste Facilities Handbook, Third Edition, Table 10-2; and
 - 2) The first-year mineralization of organic nitrogen into a plant available form, as obtained from Livestock Waste Facilities Handbook, Third Edition, Table 10-5.
- e) Realistic Crop Yield Goal
 - The realistic crop yield goal shall be determined for each field where the livestock waste is to be land applied. The realistic crop yield goal shall be determined using an average yield over a five-year period from the field where livestock waste is to be land applied. The source of data to be utilized to determine the realistic crop yield goal is provided in subsection (e)(2) of this Section.

- Whenever five years of data is available for the field where livestock waste is to be land applied, proven yields shall be used in calculating the realistic crop yield, unless there is an agronomic basis for predicting a different realistic crop yield goal. The owner or operator shall indicate the method used to determine the proven yield. Data from years with crop disasters may be discarded.
 - A) If five years of proven yield data is not available for the field where the livestock waste is to be land applied or if an agronomic basis exists for predicting a different realistic crop yield goal, the owner or operator may calculate the realistic crop yield goal using crop insurance yields or Farm Service Agency United States Department of Agriculture yields. If either of these sources is used, a copy of the insurance or assigned crop yields shall be included with the nutrient management plan.
 - B) If data is not available on proven yields, crop insurance yields or Farm Service Agency yields or if an agronomic basis exists for predicting a different realistic crop yield goal, soils based yield data from the University of Illinois "Average Crop, Pasture, and Forestry Productivity Ratings for Illinois Soils; Bulletin No. 810" (Bulletin 810) or "Optimum Crop Productivity Ratings for Illinois Soils; Bulletin 811" (Bulletin 811), incorporated by reference at 35 III. Adm. Code 501.200, shall be used by the owner or operator to calculate the realistic crop yield goal pursuant to subsection (e)(1).
 - i) If Bulletin 810 or 811 is used to calculate the realistic crop yield goal, a soil map of the land application areas shall be included in the nutrient management plan.
 - ii) If Bulletin 810 or 811 is used, the realistic crop yield goal shall be determined by a weighted average of the soil interpretation yield estimates for the fields where livestock waste is to be land applied.
 - iii) If Bulletin 811 is used, the owner or operator shall demonstrate in the nutrient management plan that the operational management and field conditions of the facility and land application areas meet the requirements for optimum conditions as provided in Bulletin 811.

f) Nitrogen Credits

1) Nitrogen credits shall be calculated by the CAFO owner or operator, pursuant to Section 502.505(n)(7) of this Part, for nitrogen-producing crops grown the previous year, for other

- sources of nitrogen applied for the growing season, and for mineralized organic nitrogen in livestock waste applied during the previous three years.
- 2) Nitrogen credits shall be calculated by the CAFO owner or operator for the mineralized organic nitrogen in livestock waste applied during the previous three years at the rate of 50%, 25%, and 12.5%, respectively, of that mineralized during the first year.
- g) Phosphorus. The plan shall be developed or amended by the CAFO owner or operator to determine the maximum livestock waste application rate for each field. The plan for that field shall contain the following:
 - 1) The phosphorus content of the livestock waste shall be determined in accordance with subsection (c) of this Section;
 - 2) The realistic crop yield goal of each crop in the field, obtained pursuant to subsection (e)(1) of this Section;
 - The phosphorus amount needed for each crop in the planned crop rotation, expressed as P₂O₅, obtained from the Illinois Agronomy Handbook, 24th Edition, incorporated by reference at Section 501.200. The determination of this phosphorus amount shall be based on the realistic crop yield goal for each planned crop and the soil test for available phosphorus (Bray P1 or Mechlich 3);
 - 4) The phosphorus carryover from previous years application of phosphorus or livestock waste;
 - 5) Soil test phosphorus results for that field; and
 - 6) The maximum livestock waste application rate shall be consistent with nitrogen-based or phosphorus-based applications allowed under Section 502.615.

h)	Nitrogen and phosphorus fertilization rates for the realistic crop yield
	goal may be obtained from the Illinois Agronomy Handbook, 24 th
	Edition, incorporated by reference at Section 501.200, or 35 III. Adm.
	Code 560, Appendix A.

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Section 502.630 Protocols to Land Apply Livestock Waste During Winter

- a) Winter Application Prohibition
 - 1) Surface land application of livestock waste on frozen, ice covered or snow covered ground is prohibited, unless permission is granted to the owner or operator by the Agency upon verification that the following criteria have been met:

- A) No practical alternative measures are available to handle the livestock waste within storage facilities or to dispose the livestock waste at other sites. Examples of practical alternative measures include the transfer of waste to another waste handling facility or sewage treatment plant, rental or acquisition of a storage tank, reduction of herd size or depopulation, and protection of the facility from direct precipitation and clean stormwater runoff;
- B) <u>Liquid livestock waste cannot be injected or incorporated</u> within 24 hours due to soil conditions;
- C) Prior to December 1, the owner or operator has taken steps to provide 120 days of available storage capacity of manure storage areas. Examples of steps that should be taken include land application or transfer of waste to another party, protection of waste storage structures from direct precipitation and clean stormwater runoff, creation of additional storage capacity if animal units increase, and construction of a waste storage structure(s) with at least 120 days of capacity if one does not already exist;
- D) The owner or operator has complied with subsection

 (a)(1)(C) and yet the storage volume available on

 December 1 of that winter season is less than 120 days of storage;
- E) The owner or operator has notified the Agency in writing on December 1 of that winter season that the CAFO has less than 120 days storage available; and
- F) The discharge of livestock waste from the structure to the surface waters is expected to occur due to shortage in storage capacity.
- The storage volume calculation in subsection (a)(1)(C) must include runoff and direct precipitation plus the volume of livestock excreta, wash water and other process wastewater generated and expected to enter the storage structure during the period of December 1 to April 1. Runoff volume calculations must meet the following requirements:
 - A) Runoff calculations must be based on the runoff transferred into the storage structure under frozen ground conditions;

- B) Direct precipitation that will reduce the available storage volume must be based on normal precipitation for the December 1 to April 1 period for the nearest weather station and for facilities exposed to precipitation, the 25-year, 24-hour storm event volume or the design storm event volume determined under Subpart H for Large swine, poultry and veal CAFOs that are new sources. The determination of normal precipitation shall be based on National Weather Service or State Water Survey Records;
- <u>C)</u> The following sources may be used to determine normal precipitation:
 - i) http://www.isws.illinois.edu/atmos/statecli/newnormals/newnormals.htm

or

- ii) http://cdo.ncdc.noaa.gov/cgibin/climatenormals/climatenormals.pl;
- D) The owner or operator shall keep a record of the precipitation value used and the source from which the value was obtained; and
- E) Calculations must allow for a freeboard of two feet.
- 3) In the event winter land application is necessary, it must be conducted pursuant to a winter application plan described in subsection (b) of this Section and according to the conditions of subsection (c) of this Section.
- b) Winter Application Plan

In order to conduct surface land application on frozen, ice covered, or snow covered ground, the requirements of this subsection (b) conditions must be met.

- 1) No land application may occur within ¼ mile of a non-farm residence.
- 2) No discharge may occur during land application of livestock waste.
- 3) Surface land application on frozen ground shall not occur within 24 hours preceding a forecast of 0.25 inches or more of

precipitation in a 24 hour period as measured in liquid form. The CAFO owner or operator shall use one of the two methods provided below for determining whether or not these conditions exist and shall maintain a record of the forecast from the source used.

- A) A prediction of a 60 percent or greater chance of 0.25 inches or more of precipitation in a 24 hour period as measured in liquid form by the National Weather Service at http://www.nws.noaa.gov/mdl/forecast/graphics/MAV/ for the location nearest to the land application area; or
- B) A prediction of 0.25 inches or more of precipitation in a 24 hour period as measured in liquid form and identified as higher than QPF category 2 by the National Weather

 Service at

 http://www.nws.noaa.gov/mdl/synop/products/bullform.me
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- 4) Surface land application of livestock waste on ice covered or snow covered land shall not occur within 24 hours preceding a forecast of 0.1 inches or more of precipitation in a 24 hour period as measured in liquid form. The CAFO owner or operator shall use one of the two methods provided below for determining whether or not these conditions exist and shall maintain a record of the forecast from the source used.
 - A) A prediction of a 60 percent or greater chance of 0.1 inches or more of precipitation in a 24-hour period as measured in liquid form by the National Weather Service at http://www.nws.noaa.gov/mdl/forecast/graphics/MAV/ for the location nearest to the land application area; or
 - B) A prediction of 0.1 inches or more of precipitation in a 24-hour period as measured in liquid form and identified as higher than QPF category 1 by the National Weather

 Service at

 http://www.nws.noaa.gov/mdl/synop/products/bullform.me
 x.htm for the land application area location.
- 5) If the land application of livestock waste is on ice covered or snow covered land, surface land application shall not occur when the predicted high temperature exceeds 32 degrees F on the day of land application or on any of the 7 days following land application as predicted by the National Weather Service at one of the following sources for the location nearest to the land application

area, and the owner or operator shall maintain a record of the forecast from the source used;

- <u>A) http://www.nws.noaa.gov/mdl/forecast/graphics/MEX/index.html or</u>
- B) <u>http://www.nws.noaa.gov/mdl/synop/</u>products/bullform.mex.htm.
- 6) If the surface land application of livestock waste is on ice covered or snow covered land, the CAFO owner or operator shall visually monitor for runoff from the site. The CAFO owner or operator must monitor each ice covered or snow covered field where land application has been conducted daily when the ambient temperature is 32 degrees F or greater following winter land application until all the ice or snow melts from the land application area.
- 7) If the surface land application of livestock waste is on ice covered or snow covered land and a runoff from the land application area occurs, the CAFO owner or operator shall report any discharge of livestock waste within 24 hours of the discovery of the discharge as follows:
 - A) The report shall be made to the Agency through the Illinois

 Emergency Management Agency by calling 1-800-7827860 or 1-217-782-7860;
 - B) Within 5 days of this telephone report, the CAFO owner or operator shall file a written report with the Agency that includes the name and telephone number of the person filing the report, location of the discharge, an estimate of the quantity of the discharge, time and duration of the discharge, actions taken in response to the discharge, and observations of the condition of the discharge with regards to turbidity, color, foaming, floatable solids and other deleterious conditions of the runoff for each day of each runoff event until the ice or snow melts off the site.
- <u>c)</u> Availability of Individual Fields for Winter Application

If livestock waste is to be surface applied on frozen ground, ice covered land or snow covered land, the land application may only be conducted on land that meets the following requirements:

1) Adequate erosion and runoff control practices exist, including, but

- not limited to, vegetative fence rows around the site, contour farming, terracing, catchment basins and buffer areas that intercept surface runoff from the site;
- A crop stubble, crop residue or vegetative buffer of 200 feet exists between the land application area and surface waters, waterways, open tile line intake structures, sinkholes, agricultural wellheads, or other conduits to surface water and the vegetative buffer zone is down gradient of the livestock waste application area;
- 3) Application on land with slopes greater than 5% is prohibited;
- 4) Application may only occur on sites that have field specific soil erosion loss less than the erosion factor T as determined using Revised Universal Soil Loss Equation 2, and have a median Bray P1 or Mechlich 3 soil level of phosphorus equal to or less than 300 pounds per acre;
- Surface Application may only occur after application of three times the otherwise applicable setbacks from Sections 502.615 and 502.645 if the slope of the field is between 2 percent and 5 percent. This setback requirement does not include the ¼ mile distance from residences contained in Section 502.645(a); and
- For fields with slopes of less than 2 percent, the surface application may only occur after application of two times the otherwise applicable setbacks from Sections 502.615 and 502.645. This setback requirement does not include the ¼ mile distance from residences contained in Section 502.645(a).

If livestock waste is to be surface applied on frozen ground, ice
covered land or snow covered land, the maximum application rate
shall not exceed the amount of phosphorus removed by the next year's
crop grown and harvested.

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Section 502.635 Manure and Soil Sampling and Analysis

- a) Soil Phosphorus Sampling. Soil samples shall be obtained and analyzed from each field of the land application area where applications are planned. Fields where livestock waste is applied shall be sampled twice for each field during the term of the permit. Soil testing must be conducted as follows:
 - 1) Soil sampling for phosphorus shall be in accordance with the sampling protocols in Chapter 8 of the Illinois Agronomy Handbook, 24th Edition, incorporated by reference at Section

501.200. Laboratory analysis for soil Bray P1 or Mehlich 3 shall be in accordance with Recommended Chemical Soil Test

Procedures for the North Central Region, incorporated by reference at Section 501.200;

- 2) Soil samples shall be at the same time in the cropping cycle and rotation so that results are comparable year to year; and
- 3) The two required soil samples for each field must be taken at least one year apart.
- b) Manure Sampling.
 - The CAFO owner or operator shall annually obtain a laboratory analysis of the nutrient content representative of the livestock waste to be land applied as provided within the nutrient management plan. Livestock waste shall be sampled during the application process. Multiple subsamples shall be obtained and combined into one sample so that a representative sample is obtained for analysis. Results of a sample taken during waste application the previous year can be used for plan preparation unless there has been a change in the waste management practices during the year. The analytical results of livestock waste samples shall be used for calculation of the application rate allowed by the NPDES permit.
 - The laboratory analysis of livestock waste sample shall include total kjeldahl nitrogen, ammonia or ammonium nitrogen, total phosphorus, total potassium, and percent total solids. The nutrient results shall be reported in mg/kg dry weight basis or mg/l wet weight basis on the laboratory analysis sheet. The results of these analyses are to be used in determining application rates for livestock waste.

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Section 502.640 Inspection of Land Application Equipment for Leaks

- a) For all permitted CAFOs that land apply livestock waste, the CAFO owner or operator must periodically inspect equipment used for land application of livestock waste for leaks or problems that result in improper operation.
- b) The CAFO owner or operator must ensure that the land application equipment is properly calibrated for application of livestock waste on a routine basis.
- <u>Calibration procedures and schedules shall be described for all equipment in the CAFO's nutrient management plan.</u>

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Section 502.645 Land Application Setback Requirements

a) Distance from Residences

<u>Livestock waste shall not be land applied within 1/4 mile of any residence</u> not part of the CAFO, unless it is injected or incorporated on the day of <u>application</u>.

- b) Setbacks from Waters
 - 1) <u>Livestock waste shall not be land applied within 200 feet of surface water, unless the water is upgrade or there is adequate diking.</u>
 - 2) Livestock waste shall not be land applied within 100 feet of down gradient open subsurface drainage intakes, agricultural drainage wells, sinkholes, grassed waterways or other conduits to surface waters, unless a 35 foot vegetative buffer exists between the land application area and the grassed waterways, open subsurface drainage intakes, agricultural drainage wells, sinkholes or other conduits to surface water.
 - The setback requirements in subsection (b)(2) do not apply if the CAFO is able to demonstrate to the Agency that a setback or buffer is not necessary because implementation of alternative conservation practices (including, but not limited to, injection and incorporation) or field-specific conditions will provide pollutant reductions equivalent or better than the reductions that would be achieved by the 100-foot setback.
- c) Livestock waste shall not be applied in a 10-year flood plain unless the injection or incorporation method of application is used.
- <u>d)</u> <u>Livestock waste shall not be land applied to waters of the United States, grassed waterways or other conduits to surface waters.</u>
- e) <u>Livestock waste shall not be land applied within 200 feet of potable water</u> supply wells.

<u>f)</u>	Livestock waste shall not be land applied within 500 feet of
	biologically significant streams, outstanding resource waters and
	designated surface drinking water supplies.

(Source: /	Addedat	III. Reg.	, effective)
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SUBPART G: ADDITIONAL LIVESTOCK WASTE DISCHARGE LIMITATIONS

Section 502.710 New Source Performance Standards For Dairy Cows and Cattle Other Than Veal Calves

a) New Source Performance Standards (NSPS) applicability

Any CAFO with the capacity to stable or confine 700 or more mature dairy cows whether milked or dry or 1,000 or more cattle other than mature dairy cows or veal calves that is a new source must achieve the livestock waste discharge limitations representing the application of NSPS as of the date of permit coverage or within the timelines provided in Section 502.303.

- b) The livestock waste discharge limitations representing NSPS for the CAFO production area for CAFOs subject to this Section are the livestock waste discharge limitations found in Sections 502.605 and 502.610.
- <u>CAFO land application area are the livestock waste discharge limitations and requirements found in Sections 502.615 through 502.645.</u>
- d) CAFOs subject to this Section shall attain the limitations and requirements in Subpart F as of the date of permit coverage or within the timelines provided in Section 502.303.

(Source:	Added at	Ill. Reg.	, effective

Section 502.720 Horse and Sheep CAFOs: BPT, BAT and NSPS

This Section contains the effluent limitations applicable to discharges resulting from the production area at horse and sheep CAFOs. CAFOs subject to this Section shall attain the limitations and requirements of this Section as of the date of permit coverage. CAFOs with the capacity to stable or confine fewer than 10,000 sheep or fewer than 500 horses are exempt from these effluent limitations.

- <u>a)</u> Effluent limitations attainable by the application of the best practicable control technology currently available (BPT) for Horse and Sheep CAFOs</u>
 - 1) Except as provided in subsection (a)(2) of this Section, any existing point source subject to this Section shall have no discharge of process wastewater pollutants to waters of the United States. Achievement of no process wastewater discharge to waters of the United States is the effluent limitation representing the application of BPT for Horse and Sheep CAFOs.
 - 2) Process waste pollutants in the overflow may be discharged to waters of the United States whenever rainfall events, either

chronic or catastrophic, cause an overflow of process waste water from a facility designed, constructed and operated to contain all process generated wastewaters plus the runoff from a 10-year, 24-hour rainfall event for the location of the point source.

- b) <u>Effluent limitations attainable by the application of the best available</u> technology economically achievable (BAT) for Horse and Sheep CAFOs
 - 1) Except when the provisions of subsection (b)(2) of this Section apply, any existing point source subject to this Section shall have no discharge of process wastewater pollutants to waters of the United States. Achievement of no process wastewater discharge to waters of the United States is the effluent limitation representing the application of BAT for Horse and Sheep CAFOs.
 - Whenever rainfall events cause an overflow of process wastewater from a facility designed, constructed, operated and maintained to contain all process-generated wastewaters plus the runoff from a 25-year, 24-hour rainfall event at the location of the point source, any process wastewater pollutants in the overflow may be discharged to waters of the United States.
- New Source Performance Standards (NSPS) for Horse and Sheep

 CAFOs

 Except as provided in subsection (b)(2) of this Section, any new source subject this Section shall have no discharge of process wastewater pollutants to waters of the United States. Achievement of no process wastewater discharge to waters of the United States is the performance standard representing New Source Performance Standards for Horse and Sheep CAFOs.

(Source, Added at III. Reg. , cricetive	(Source: A	Added at	III. Reg.	, effective
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Section 502.730 Duck CAFOs: BPT and NSPS

This Section contains the effluent limitations applicable to discharges resulting from the production areas at dry lot and wet lot duck CAFOs. CAFOs subject to this Section shall attain the limitations and requirements of this Section as of the date of permit coverage. CAFOs with the capacity to stable or confine fewer than 5,000 ducks are exempt from these effluent limitations.

a) Effluent limitations attainable by the application of the best practicable control technology currently available (BPT) for Wet Lot and Dry Lot Duck CAFOs

Any existing point source subject to this Section shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of BPT:

1) BOD₅ is limited to a maximum daily limit of 3.66 pounds/1,000 ducks or 1.66 kilograms/1,000 ducks.

- <u>BOD₅ is limited to a maximum monthly average of 2.0 pounds/1,000 ducks or 0.91 kilograms/1,000 ducks.</u>
- 3) Fecal coliform is not to exceed MPN of 400/100 ml at any time.
- b) New Source Performance Standards for Wet Lot and Dry Lot Duck CAFOs
 - 1) Except as provided in subsection (b)(2) of this Section, any new source subject to this Section shall have no discharge of process wastewater pollutants to waters of the United States.

 Achievement of no process wastewater discharge to waters of the United States is the performance standard representing NSPS for Duck CAFOs.
 - Whenever rainfall events cause an overflow of process
 wastewater from a facility designed, constructed, operated and
 maintained to contain all process-generated wastewaters plus the
 runoff from a 25-year, 24-hour rainfall event at the location of
 the point source, any process wastewater pollutants in the
 overflow may be discharged to waters of the United States.

(Source: Added at III. Reg. , effective	Source: Added at	Ill. Reg.	, effective
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SUBPART H: NEW SOURCE PERFORMANCE STANDARDS FOR NEW, LARGE SWINE, POULTRY AND VEAL CAFOS

502.800	Applicability

- a) This Subpart applies to all New Swine, Poultry and Veal CAFOs with the capacity to stable or confine the numbers of animals of the types provided for in the definition of large CAFOs in Section 502.103.
- b) The requirements of this Subpart H are in addition to the livestock waste discharge limitations and technical standards in Subpart F of this Part, except Section 502.605.
- <u>These limitations and requirements must be attained as of the date of NPDES permit coverage or within the timelines provided in Section 502.303.</u>

(Source: Added at	Ill. Reg.	, effective)

Section 502,810 Production Area Requirements

There must be no discharge of livestock waste pollutants to waters of the United States from the production area unless the CAFO complies with the alternative livestock waste discharge limitations provided in Section 502.830 of this Part.

(Source: Added at	Ill. Reg.	, effective)	

<u>Section</u>	502.820	Land Application Area Requirements
		o this Subpart, the land application areas shall attain the same ements as specified in Sections 502.615 through 502.645.
(!	Source: Adde	ed at Ill. Reg, effective)
<u>Section</u>	502.830	Alternative Best Management Practice Livestock Waste Discharge Limitations
<u>a</u>	<u>NPDE</u> limitat upon a	AFO subject to this Subpart may request that the Agency establish Spermit best management practice livestock waste discharge ions designed to ensure no discharge of livestock waste based a site-specific evaluation of the CAFO's open surface livestock estructure.
<u>b</u>	limitat of any which "no di means accord	PDES permit best management practice livestock waste discharge ions must address the CAFO's entire production area. In the case CAFO using an open surface livestock waste storage structure for the Agency establishes such livestock waste discharge limitations, scharge of livestock waste pollutants," as used in this subpart H, that the storage structure is designed, operated, and maintained in lance with best management practices established by the Agency te-specific basis after a technical evaluation of the storage lire.

Section 502.840 Technical Evaluation

502.840.

c)

All technical evaluations conducted pursuant to this Subpart H must address the minimum elements contained in this Section. Waste management and storage facilities designed, constructed, operated, and maintained consistent with the analysis conducted in subsections (a) through (g) of this Section and operated in accordance with the additional measures and records required by Section 502.610 will fulfill the requirements of this Subpart.

(Source: Added at __ Ill. Reg. ______, effective ______)

The technical evaluation must address the elements listed in Section

- a) Information to be used in the design of the open manure storage structure including, but not limited to:
 - 1) Minimum storage periods for rainy seasons;
 - 2) Additional minimum capacity for chronic rainfalls;
 - 3) Applicable technical standards that prohibit or otherwise limit land application on frozen, saturated or snow-covered ground found in Section 502.630 of this Part;

- 4) Planned emptying and dewatering schedules consistent with the CAFO's nutrient management plan;
- 5) Additional storage capacity for livestock waste intended to be transferred to another recipient at a later time; and
- <u>Any other factors that would affect the sizing of the structure.</u>
- b) The design of the open livestock waste storage structure as determined by the most recent version of the National Resource Conservation

 Service's Animal Waste Management (AWM) software found at http://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/national/technical/alphabetical/mnm/?&cid=stelprdb1045812. CAFOs may use equivalent design software or procedures as approved by the Agency.
- <u>All inputs used in the open livestock waste storage structure design including:</u>
 - 1) actual climate data for the previous 30 years consisting of historical average monthly precipitation and evaporation values;
 - <u>2)</u> the number and types of animals;
 - 3) anticipated animal sizes or weights;
 - 4) any added water and bedding;
 - <u>any other process wastewater; and</u>
 - 6) the size and condition of outside areas exposed to rainfall and contributing runoff to the open livestock waste storage structure.
- d) The planned minimum period of storage in months including, but not limited to, the factors for designing an open livestock waste storage structure listed in subsection (a) of this Section. Alternatively the CAFO may determine the minimum period of storage by specifying times the storage pond will be emptied consistent with the CAFO's nutrient management plan.
- e) Site-specific predicted design specifications including:
 - <u>1)</u> <u>dimensions of the storage facility;</u>
 - <u>adily manure and wastewater additions;</u>
 - 3) the size and characteristics of the land application areas; and
 - 4) the total calculated storage period in months.
- An evaluation of the adequacy of the designed manure storage structure using the most recent version of the Soil Plant Air Water (SPAW)

 Hydrology Tool found at http://hydrolab.arsusda.gov/SPAW/Index.htm.

- 1) The evaluation must include all inputs to SPAW including but not limited to:
 - <u>A)</u> <u>daily precipitation, temperature, and evaporation data for the previous 100 years;</u>
 - B) <u>user-specified soil profiles representative of the CAFO's</u> land application areas;
 - <u>C)</u> planned crop rotations consistent with the CAFO's nutrient management plan; and
 - <u>D)</u> the final modeled result of no overflows from the designed open livestock waste storage structure.
- Eor those CAFOs where 100 years of local weather data for the CAFO's location is not available, CAFOs may use a simulation with a confidence interval analysis conducted over a period of 100 years.
- 3) The Agency may approve equivalent evaluation and simulation procedures.
- g) The Agency may waive the requirement in subsection (f) of this Section for a site-specific evaluation of the designed livestock waste storage structure and instead authorize a CAFO to use a technical evaluation developed for a class of specific facilities within a specified geographical area.
- h) The Agency may request additional information to support a request for livestock waste discharge limitations based on a site-specific open surface livestock waste storage structure.

(Source: Added at _	Ill. Reg	, effective	_)
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CERTIFICATE OF SERVICE

I, Jessica Dexter, hereby certify that I have filed the attached **NOTICE OF FILING** and **ENVIRONMENTAL GROUPS' PROPOSED AMENDMENTS TO 35 Ill. ADM. CODE PARTS 501 and 502** upon the attached service list by depositing said documents in the United States Mail, postage prepaid, in Chicago, Illinois on October 17, 2012.

Respectfully submitted,

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