

TOWN OF TRADE LAKE CAFO OPERATIONS APPLICATION

INSTRUCTIONS

Who Must Complete an Application?

You must complete this Application if are a concentrated animal feeding operation (CAFO).

Where to File Your Completed Form

Submit your completed application package to the Town of Trade Lake Clerk.

Public Availability of Submitted Information

As a condition of operating within the Town of Trade Lake, the Applicant agrees that the information required to be produced and maintained as part of this application process or as a condition of operating under the terms of the Town of Trade Lake CAFO Operations Ordinance, is not confidential, a trade secret or proprietary. Any claim as to the confidential or alleged protected nature of the information referenced in this application is waived by the Applicant as a condition of operating in the Town of Trade Lake. By submitting an application to operate in the Town of Trade Lake, the Applicant acknowledges that the information provided pursuant to application or conditions placed upon the Applicant by the Town of Trade Lake shall be accessible to representatives of the Town of Trade Lake, Representatives of Burnett County and representatives of the State of Wisconsin and that this information may be made public on Town, County or State websites or in response to requests made under the Freedom of Information Act. The Town of Trade Lake will make any information contained in your Application and any documents filed along with the Application available to the public for inspection and copying upon request. The Town of Trade Lake may make information required to be produced and maintained as part of this application process or as a condition of operating under the terms of the Town of Trade Lake CAF Operations Ordinance available to the public without further notice to you.

This Application must be read in conjunction with the Town of Trade Lake Concentrated Animal Feeding Operations (CAFO) Ordinance. You must thoroughly review the Town of Trade Lake Concentrated Animal Feeding Operations (CAFO) Ordinance and include all information required by that ordinance as part of this Application.

Completion of Forms

Print or type in the specified areas only. If you do not have enough space on the form to answer a question, you may continue on additional sheets, as necessary, using a format consistent with the form.

Provide your NPDES permit number, and facility name at the top of each page of the Application and any attachments. If your facility is new (i.e., not yet constructed), write or type "New Facility" in the space provided for the NPDES permit number.

Do not leave any response areas blank unless the form directs you to skip them. If the form directs you to respond to an item that does not apply to your facility or activity, enter "NA" for "not applicable" to show that you considered the item and determined a response was not necessary for your facility.

The Town of Trade Lake will consider your application complete when it and any supplementary material are received and completed according to the Town's satisfaction.* The Town of Trade Lake will judge the completeness of any application independently of the status of any other permit application or permit for the same facility or activity.

****The Applicant must obtain all required state and county permits and attach them to this Application. The Town will not proceed with Application procedure until all required state and county permits are complete.***

Section 1. General Information

Item 1.1. Indicate whether your facility is an existing or proposed facility. Mark "Proposed Facility" if your facility is presently not in operation or is expanding to meet the definition of a CAFO in accordance with The Town of Trade Lake's CAFO Operations Ordinance.

Section 2. CAFO Owner/Operator Contact Information

Item 2.1. Provide the name, title, telephone number, and email address of the owner(s) of the facility/business. Also, provide the name, title, telephone number, and email address of the operator of the facility/business. **(See Instruction 8, below for owners that are corporate entities, partnerships or sole proprietorships or municipality, state, federal, or other public facilities.)**

Item 2.2. Provide the complete mailing address of the owner(s) and operator of the facility/business. The “operator” is the person who is or will be in charge of the day-to-day operations of the facility once it is up and running.

Section 3. CAFO Location and Contact Information

Item 3.1. Provide the legal name and location (complete mailing address) of the facility. Also indicate whom the Town should contact about the application, including a telephone number and email address.

Item 3.2. Provide the latitude and longitude of the entrance to the production area (i.e., the part of the operation that includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas). Latitude and longitude coordinates may be obtained in a variety of ways, including use of hand held devices (e.g., a GPS enabled smartphone), internet mapping tools (e.g., <https://mynasadata.larc.nasa.gov/latitudelongitude-finder/>), geographic information systems (e.g., ArcView), or paper maps from trusted sources (e.g., U.S. Geological Survey or USGS). For further guidance, refer to <http://www.epa.gov/geospatial/latitudelongitude-data-standard>.

Item 3.3. If the facility uses a contract grower, provide the name and complete mailing address of the integrator.

Section 4. CAFO Topographic Map

Item 4.1. Provide a topographic map of the geographic area in which the facility is located, showing the specific location of the production area(s).

On each map, include the map scale, a meridian arrow showing north, and latitude and longitude to the nearest second. Latitude and longitude coordinates may be obtained in a variety of ways, including use of hand held devices (e.g., a GPS enabled smartphone), internet mapping tools (e.g., <https://mynasadata.larc.nasa.gov/latitudelongitude-finder/>), geographic information systems (e.g., ArcView), or paper maps from trusted sources (e.g., USGS).

On all maps of rivers, show the direction of the current. In tidal waters, show the directions of ebb and flow tides.

You may develop your map by going to the United States USGS’s National Map website at <http://nationalmap.gov/>. (For a map from this site, use the traditional 7.5-minute quadrangle format. If none is available, use a USGS 15-minute series map.) You may also use a plat or other appropriate map. Briefly describe land uses in the map area (e.g., residential, commercial.). Note that you have completed your topographic map and attached it to the application.

Section 5. CAFO Characteristics

Item 5.1. Provide the maximum number of each type of animal at your facility in confinement or housed under roof (either partially or totally) for a total of 45 days or more in any 12-month period. Provide the total number of animals confined at the facility. Also, state the amount of square footage each animal will have when confined inside a pen or other enclosure. If multiple animals are confined in a single pen or other enclosure, divide the square footage of the pen or other enclosure by the number of animals confined to get the square footage per animal.

Item 5.2. Identify the applicable types of containment and storage for manure, litter, and process wastewater at the facility and indicate the capacity of storage in days and gallons or tons.

Item 5.3. Indicate the total number of acres that are drained and collected in the containment and storage structure(s).

Item 5.4. Specify the tons of manure or litter and the gallons of process wastewater generated at the facility on an annual basis. Explain how you arrived at your answer. If you are a new facility and your calculation of the tons of manure or litter and the gallons of process wastewater generated at the facility on an annual basis differs from similar existing facilities with similar numbers of animal units, explain why your calculation differs from that of similar facilities.

Item 5.5. Indicate whether the manure, litter, and/or process wastewater is land applied. If yes, continue to Item 5.6. If no, skip to Item 5.8.

Item 5.6. Indicate the number of acres of land under the control of the applicant that are available for land application of the manure, litter, or process wastewater.

Item 5.7. Check any of the identified best management practices that are being implemented at the facility to control runoff and protect water quality.

Item 5.8. Indicate if the manure, litter, and/or process wastewater is transferred to any other persons. If yes, continue to Item 5.9. If no, skip to Item 5.10.

Item 5.9. Specify the tons of manure or litter or the gallons of process wastewater transferred annually to other people.

Item 5.10. Describe any alternative uses of manure, litter, or process wastewater, if any (e.g., composting, pelletizing, energy generation).

Section 6. CAFO Nutrient Management Plans

Item 6.1. Indicate if you have submitted a nutrient management plan that satisfies the requirements at 40 CFR 122.42(e) and, if applicable, the requirements at 40 CFR 412.4(c).

Item 6.2. If you have not yet submitted a nutrient management plan, explain why not.

Item 6.3. Indicate if a nutrient management plan is being implemented at the CAFO. If not land applying, describe the alternative uses of the manure, litter, and wastewater (e.g., composting, pelletizing, energy generation).

Item 6.4. Indicate the date of the last review or revision of the nutrient management plan.

Note: A permit application is not complete until a nutrient management plan is submitted to and approved by the NPDES permitting authority.

Section 7. Concentrated Aquatic Animal Production

Item 7.1. Section 7 relates to Concentrated Aquatic Animal Production (CAAP) facilities, which are facilities that produce 100,000 pounds or more of aquatic animals per year (fish, molluscs and crustaceans).

Section 8. THIS APPLICATION MUST BE SIGNED AS FOLLOWS:

Item 8.1. For a corporation (including LLCs or other legal corporate entity). By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (1) a president, secretary, treasurer, or vice-president of the corporation.

For a partnership or sole proprietorship. By a general partner or the proprietor, respectively.

For a municipality, state, federal, or other public facility. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes: (1) The chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

In addition to any penalties that exist under the Clean Water Act, CWA Section 309(c)(2) and Wisconsin Statutes §283.91, to the extent that they apply to this application or any documents submitted in conjunction with this application, any false statement, representation, or certification made in the application or in information provided to the Town, County or State in association with an application to operate a CAFO within the Town of Trade Lake shall be grounds for denial of a Permit.

Section 9. Operational Plans

Section 9 of the application requires the Applicant to generate plans for various aspects of Applicant's CAFO operations.

**TOWN OF TRADE LAKE OPERATIONS PERMIT APPLICATION FOR CONCENTRATED ANIMAL
FEEDING OPERATIONS**

NPDES Permit Number:		Facility Name:		
SECTION 1. GENERAL INFORMATION				
General Information	1.1	Indicate the operational status of the facility. (Check one.)		
		<input type="checkbox"/> Existing facility	<input type="checkbox"/> Proposed facility	
SECTION 2. OWNER AND OPERATOR INFORMATION				
CAFO Owner/Operator Contact Information	2.1	Owner Contact (Must be person authorized to sign the Application under Section 8 of the Instructions.)		
		Name (first and last)	Title	
		Phone number	Email address	
		Owner Mailing Address		
	2.2	Street or P.O. Box		
		City or town	State	ZIP Code
		Operator Contact		
	2.3	Name (first and last)	Title	List Experience as operator of CAFOs:
		Phone number	Email address	
		Operator Mailing Address		
	2.4	Street or P.O. Box		
		City or town	State	ZIP Code
SECTION 3. CAFO LOCATION AND CONTACT INFORMATION				
CAFO Location and Contact Information	3.1	CAFO Location and Contact		
		Name		
		Address (street, route number, or other specific identifier)		County
		City or town	State	ZIP Code
		Facility contact name	Phone number	Email address
		Latitude/Longitude of Entrance to Production Area (see instructions)		
	3.2	Latitude	Longitude	
		Integrator Name and Address		
	3.3	Name		
		Street Address		
		City or town	State	ZIP Code

NPDES Permit Number:		Facility Name:					
SECTION 4. CAFO TOPOGRAPHIC MAP							
CAFO Topographic Map	4.1	Have you attached a topographic map containing all required information to this application? (see instructions for specific requirements)					
		YES	NO				
SECTION 5. CAFO CHARACTERISTICS							
CAFO Characteristics	5.1	Provide Information on the type and number of animals in the table below.					
		Animal Type	Number in Open Confinement	Number Housed Under Roof	Animal Type	Number in Open Confinement	Number Housed Under Roof
		Mature dairy cows			Sheep or lambs		
		Dairy heifers			Chickens (broilers)		
		Veal calves			Chickens (layers)		
		Cattle (not dairy or veal calves)			Ducks		
		Swine (55 lbs. or more)			Other (specify)		
		Swine (under 55 lbs.)			Other (specify)		
		Horses			Other (specify)		
		Turkeys					
	Total Animals						
	5.2	Indicate the type of containment and storage, total number of days, and total capacity for manure, litter, and process wastewater storage in the table below					
		Type of Containment and Storage	Total Number of Days	Total Capacity (specify gallons or tons)	Type of Containment and Storage	Total Number of Days	Total Capacity (specify gallons or tons)
		Anaerobic lagoon			Below ground storage tanks		
		Evaporation			Roofed storage shed		
		Above ground storage tanks			Concrete pad		
		Storage pond			Impervious soil pad		
		Underfloor pit			Other (specify)		
	5.3	Indicate the total number of acres drained and collected in the containment and storage structure(s) reported under Item 5.2					
		Acres					

NPDES Permit Number:		Facility Name:		
CAFO Characteristics	Manure, Litter, and/or Process Wastewater Production and Use			
	5.4	How many tons of manure or litter and gallons of process wastewater are generated annually at the CAFO?		
		Manure tons: _____		
		Litter tons: _____		
	5.5		Process wastewater gallons: _____	
	5.5	Is manure, litter, and/or process wastewater generated at the CAFO land applied?		
		<input type="checkbox"/> Yes <input type="checkbox"/> No (Skip to Item 5.8)		
	5.6	How many acres of land under the control of the applicant are available for applying the CAFO's manure, litter, or process wastewater? ("Under the control of the applicant" is land subject to a signed lease agreement which includes a disclosure that manure will be deposited on the property, pursuant to Conditions 2(h)(iv) and 6(b) through 6(g) of the Town of Trade Lake Amended Concentrated Animal Feeding Operations (CAFO) Ordinance.)		
		Acres: _____		
	5.7	Check all land application best management practices that are being implemented		
<input type="checkbox"/> Buffers		<input type="checkbox"/> Infiltration field		
<input type="checkbox"/> Setbacks		<input type="checkbox"/> Grass filter		
<input type="checkbox"/> Conservation tillage		<input type="checkbox"/> Terrace		
5.8	<input type="checkbox"/> Constructed wetlands	<input type="checkbox"/> Other (specify) _____		
	Is manure, litter, and/or process wastewater transferred to any other persons?			
5.8	<input type="checkbox"/> Yes <input type="checkbox"/> No (Skip to Item 5.10)			
	5.9	How many tons of manure or litter and gallons of process wastewater, produced by the CAFO, are transferred annually to other people?		
Manure tons: _____				
Litter tons: _____				
5.10	Process wastewater gallons: _____			
	Describe alternative use(s) of manure, litter, or process wastewater, if any.			
SECTION 6. CAFO NUTRIENT MANAGEMENT PLANS				
CAFO Nutrient Management Plans	6.1	Has the applicant attached a nutrient management plan that satisfies the requirements at 40 CFR 122.42(e) and, if applicable, the requirements at 40 CFR 412.4(c)? Note: A permit application is not complete until a nutrient management plan is submitted to the NPDES permitting authority.		
		<input type="checkbox"/> Yes (Skip to Item 6.3) <input type="checkbox"/> No		
	6.2	Explain why a nutrient management plan is not attached to the application.		
	6.3	Is a nutrient management plan being implemented at the CAFO?		
<input type="checkbox"/> Yes <input type="checkbox"/> No				
6.4	What was the date of the last review or revision of the nutrient management plan?			
	_____ Date			

NPDES Permit Number:		Facility Name:					
SECTION 7. CAAP FACILITY CHARACTERISTICS (40 CFR 122.21(i)(2))							
CAAP Facility Characteristics	7.1	Is the CAAP facility located on land?					
	<input type="checkbox"/> Yes		<input type="checkbox"/> No				
	7.2	Provide the maximum daily and maximum average monthly discharge at CAPP by outfall					
		Outfall Number	Discharge				
			Maximum Daily Discharge		Maximum Average Monthly Discharge		
			gpd		gpm		
			gpd		gpm		
	7.3	Indicate the type and number of discharge structures at the CAAP. Provide a brief description of each structure. Also note the name of the receiving water and the source of the intake water for each structure.					
		Structure type	Number of Each	Description	Receiving Water Name	Source of Intake Water	
		Ponds					
		Raceways					
		Net pens				Not applicable	
		Submerged cages				Not applicable	
		Similar structures (specify)					
	7.4	List the cold-water and/or warm-water aquatic species raised/produced in the table below. For each species listed, indicate the total yearly and maximum harvestable weight (in pounds).					
		Cold Water Species			Warm Water Species		
		Species	Harvestable Weight		Species	Harvestable Weight	
			Total Yearly	Maximum		Total Yearly	Maximum
			lbs	lbs		lbs	lbs
			lbs	lbs		lbs	lbs
		lbs	lbs		lbs	lbs	
		lbs	lbs		lbs	lbs	
7.5	Indicate the calendar month of maximum feeding and the total mass of food fed (in pounds) during that month.						
	Month of Maximum Feeding			Total Mass of Food Fed			
				lbs			

NPDES Permit Number:		Facility Name:	
SECTION 8. CHECKLIST AND CERTIFICATION STATEMENT			
	8.1	Certification Statement	
		<i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name)	Official Title
		Signature	Date Signed

NPDES Permit Number:	Facility Name:

SECTION 9. OPERATIONAL PLANS

Required Plans (Town of Trade Lake Amended Concentrated Animal Feeding Operations (CAFO) Ordinance Section 9.) Each application must contain plans that thoroughly address the following subjects. The Plans cannot be generic. They must be specific to the Applicant's facility, the location described in the application, the type and number of animal units for the animals being contained and the waste being generated and disposed of. This Application must be read in conjunction with the Town of Trade Lake Concentrated Animal Feeding Operations (CAFO) Ordinance. You must thoroughly review the Town of Trade Lake Concentrated Animal Feeding Operations (CAFO) Ordinance and include all information required by that ordinance as part of this Application.

In addition to the signatures required above, this Application must be signed by the property owner, who agrees to be held by the same standards as the operator, and by one or more qualified and professionally licensed third-party engineers or geoscientists who attest that they have prepared or have reviewed the plans and certify that they will meet the following performance requirements.

- A. Infectious Disease Plan** to prevent the spread to other animals, livestock and humans humans. Detail animal testing routines, employee testing routines, testing of the facility and testing of manure, waste water and other biological waste stored on-site and deposited off-site.
- B. Waste Management Plan** to detail how storage and management of waste and nutrients will prevent contamination of surface and groundwater. At a minimum, the Waste Management Plan must include:
 - 1. Scientifically significant baseline data on the water quality of local human drinking and agricultural wells. (CAFO Ordinance Section 10.2.a.)
 - 2. If applicable, an existing Nutrient Management Plan.
 - 3. Explain how the waste management plan will attain state requirements under WIS. Stat. 281.16(3)
 - a. No overflow of manure storage structures
 - b. No unconfined manure pile in a water quality management area.
 - c. No direct runoff from a feedlot or stored manure into the waters of the state. Limited access by livestock to waters of the state in a location where high concentrations of animals prevent the maintenance of adequate sod cover.
 - d.
 - 4. Animal waste storage to attain zero-discharge of contaminated runoff to surface water or seepage to groundwater using engineered berms, tanks and liners, equivalent or better, to prevent:
 - a. Leaking of underground liners through corrosion, cracks or gaps;
 - b. Leaking of tank systems from corrosion or cracks.
 - 5. Animal waste management to attain zero-discharge of contaminated runoff to surface or groundwater water.
 - 6. Amount of land used to spread waste will be based on spreadable acres, not total acres. (Trade Lake Ordinance Section 10.2.b.i.)

7. Manure Land Application Agreements (CAFO Ordinance 10.2.b.ii.) As part of the Waste Management Plan, Applicant must provide signed leases for all of the acreage Applicant intends to use to spread manure. Each lease must be signed by the current property owner and must contain an explicit acknowledgment by the lessor that the property will be used to spread manure.
8. Depth to groundwater below all waste management areas with borings.
9. Soil types and site-specific infiltration tests.
10. Land cover, groundwater susceptibility, fragile soil index, manure and food processing waste rating.

C. Animal Population Control and Depopulation Plan must provide for and demonstrate:

1. Daily recording and reporting of animal counts and mortality.
2. Reporting to the Town-designated local authority within 24 hours of any unusual mortality.
3. Methods used for euthanasia of diseased animals.
4. Management of the movement and transportation of livestock, containment and treatment of bodily fluids from and safe disposal of carcasses to prevent spread of disease to other livestock, animals, workers and humans.

D. Biosecurity and Animal Health Plan must provide for and demonstrate:

1. Healthy and humane treatment of all animals.
2. Routine observation and testing for diseases of concern.
3. Separation and quarantine of diseased animals and animals in contact with diseased animals.
4. Euthanasia, handling, and disposal of diseased animals sufficient to prevent the spread of disease to workers, other livestock, animals and humans.
5. Quarterly reporting of animal testing results and enforceable metrics.
6. Confirmation that the livestock and conditions at the facility, based on plan-identified metrics, are healthy by a third-party inspector.
7. Any deviations from the metrics and any detection of diseases of concern will be immediately reported to Burnett County Health Department and Town authority.
8. Testing of workers and contractors who come into contact with diseased animals.
9. The Applicant's plan for dealing with large scale animal fatalities caused by disease, natural disaster or other cause.
10. Other emergency measures in the event of an outbreak of disease, based on the latest authoritative disease containment guidance.

E. Animal Transportation Plan in combination with Biosecurity and Animal Health plan, must provide for and demonstrate:

1. Safe transportation of all livestock to and from the CAFO in compliance with the USDA "28-hour rule under 49 USC Ch. 805.
2. Disinfection of transport trailers prior to loading and treatment of water used to disinfect trailers. All vehicles leaving CAFO premises must be thoroughly sanitized.
3. Ability to contact drivers and owners of previous livestock shipments.
4. Coordination with local traffic and road authorities to assure safe transport of the animals to prevent traffic accidents and provide the necessary emergency response measures in the event of an accident.

5. Traffic study that includes:
 - a. Identification of all roads used for delivery of supplies, food, and livestock to the facility including interstate, federal, state and county highways, town roads and private roads.
 - b. Traffic counts on all local non-interstate roads/highways, and projected traffic counts with special attention to less used roads
 - c. Identification and evaluation of impact on congestion points.
 - d. Identification of tight turns that may need additional signage or improvements for safety.

F. Water Use Plan based on hydrogeological characterization study, including:

1. Estimated water use for drinking, cleaning, cooling and manure movement.
2. Pumping tests to assess whether groundwater levels and volumes are sufficient.
3. Identification of all onsite and nearby wells:
 - a. Identify and locate on a map all wells within five (5) miles of proposed facility.
 - b. Depth, date of installation of each well.
 - c. Pump rates, and hydraulic unit pumped from for each well.
4. Identification of all springs and artesian fed streams and water bodies within five (5) miles, including:
 - a. ponds
 - b. wetlands
 - c. single source aquifers
 - d. regional aquifers
 - e. lakes
5. Location on a map and characterization of artesian features, including:
 - a. size
 - b. depth
 - c. estimated flow rates for springs
 - d. geological formation(s) water comes from and is found in
6. Identification of the drainage basin(s) in the area.
7. Identification of any 100-year flood plains in the area.
8. Identification of any recharge zones for a sole-source aquifer.
9. Demonstration by calculation, modeling, and hydrology that the planned use of water will have no impact, considering projected 50-year growth of population in the area, and the flow rate.
10. Extent, volume, and storage capacity for any existing well, spring or artesian-fed water body within 2 miles.
11. Quarterly reporting of water use to the local authority or their designated hydrogeologist.

G. Odor and Toxic Air Pollution Prevention Plan must provide for and demonstrate:

1. Point, fugitive and dust emissions and monitoring requirements for all facilities.
2. Prevention of odiferous smells noticeable to human olfactory senses.
3. Prevention of toxic air pollutants along property boundaries.
4. Adequate offsets, waste containment, air and odor emission control devices, including particulate filters to:

- a. Prevent air pollution
- b. Transmission of disease particles from the CAFO or offsite CAFO waste management areas.

H. Community Economic Land Use, Property Value Assessment and Impact Study performed by a licensed appraiser and qualified land use planner with scientifically sound measures to provide for and demonstrate:

- 1. Identification of land use and property owners within one (1) mile of proposed facility.
- 2. No negative impact to properties within one (1) mile of proposed CAFO.
- 3. Net positive benefits to the Town including consideration of risk on public health.

I. Construction, Fire and Road Plans must provide for and demonstrate:

- 1. **Construction Plan** to include signed engineered drawings for the measures needed to meet the performance requirements and the measures specified in the following:
 - a. Fire Safety Needs Analysis
 - b. Fire Water Supply Needs Analysis
 - c. Road plan
- 2. **Fire Safety Needs Analysis** to include an evaluation of local rural fire departments (RFD) ability to respond to and effectively contain fires. (See NFPA Standard 1141 Capacity of Fire Protection Services.)
 - a. Analysis of all RFDs in the county as well as the two nearest adjacent counties.
 - b. Meetings shall be held with these RFDs to discuss the current availability and future requirements necessary to fight a fire. At a minimum, discussion and documentation of the following items will be completed. Other items should be addressed if either the owner/operator or the rural fire departments identify a need:
 - i. Dispatching - Ability of current system and staff able to handle the increased call volume likely to be generated by the CAFO.
 - ii. Fire Station Locations - Current fire stations distribution, design and ability to service the changing demands related to the CAFO building and operations.
 - iii. Personnel - Any increased need for positions.
 - iv. Equipment - Ability of trucks, pumps, ladder trucks, etc. to address CAFO fires.
 - v. Personal Protective Equipment (PPE):
 - Portable Radios - enough to equip all responders on a shift.
 - Self-Contained Breathing Apparatus (SCBA)
 - Personal Alert Safety System (PASS) Devices as needed in an immediately Dangerous to Health or Life (IDHL) environment
 - Personal Protective Clothing (PPC) - percentage of fire fighters equipped with PPC and what percentage over 10 years old?
 - c. Review of RFD's Community Risk Reduction Capacity:
 - i. Fire Prevention or Code Enforcement Program.
 - ii. Inspections performance and permit approval process.
 - iii. Hazard Mitigation Planning and Risk Assessment.
 - d. Potential funding needed to address items identified in number a. to c.
 - e. Coordination agreements as needed between RFDs.

3. **Fire Water Supply Needs Analysis** to determine and ensure that there will be sufficient water supply to effectively contain a structural fire at the CAFO facility. The [NFPA 1142 Standard on Water Supplies for Suburban and Rural Fire Fighting, 2017](#) requirements are incorporated by reference. These requirements are summarized below.

- a. Determine minimum requirements for alternative water supplies for structural fire fighting purposes in areas where the Town determines that adequate and reliable water supply systems for fire-fighting purposes do not otherwise exist.
- b. Define an adequate and reliable municipal-type water supply as one that is sufficient every day of the year to control and extinguish anticipated fires.
- c. Survey CAFO structures to obtain the following information:
 - i. Occupancy hazard
 - ii. Type of construction (Per NFSA 150, 7.2.2 animal housing facilities will be Type II construction)
 - iii. Structure length, width, and height dimensions
- d. Calculate minimum water supplies. Changes made in structural design, dimensions, occupancy, or contents that affect the occupancy hazard or the construction type require that the structure be resurveyed to determine if changes are necessary in the minimum water supply required.
- e. If there are changes in automatic fire suppression systems in a structure that would affect the protection afforded, the owner/operator shall notify the Town in writing of such changes, including temporary impairment.
- f. The minimum requirements shall be subject to increase to compensate for particular conditions such as the following:
 - i. Limited RFD resources or extended RFD response times as identified in Fire Safety Needs Analysis
 - ii. Potential for delayed discovery of the fire
 - iii. Limited access
 - iv. Hazardous vegetation or unusual terrain
 - v. Structural attachments
 - vi. Special uses and occupancyFor the purpose of calculating minimum water supply requirement, a structure shall be considered an exposure hazard under the following conditions:
 - It is 100 ft² or larger in area and is within 50 feet of another structure.
 - The structure, regardless of size is of occupancy hazard classification 3 or 4 as determined in NFPA 1143 - Chapter 5 and is within 50 feet of another structure.
- g. Unattached structures exposure hazards require a minimum water supply, in gallons, to be determined by calculating the total enclosed volume, in cubic feet, of the structure, dividing by the occupancy hazard number as determined from NFPA 1143 - Chapter 5, multiplying by the construction classification number as determined from NFPA - Chapter 6 and multiplying by 1.5 as follows:

$$WS_{min} = (V_{Stot} / OHC) \times CC \times 1.5$$

Where:

WS_{min} = minimum water supply in gallons

VStot = total volume of structure in ft³
 OHC = occupancy hazard classification number
 CC = construction classification number

- h. Structures with automatic sprinkler protection shall be permitted to reduce the water supply required for manual fire-fighting purposes when a structure is protected by an automatic sprinkler system that fully meets the requirements of NFPA 13, NFPA 13D, or NFPA 13R (See Annex F of NFPA 1142)
- i. Automatic sprinkler systems that do not fully meet the requirements of NFPA 13, NFPA 13D, or NFPA 13R shall provide a water supply in accordance with Section 16.3.5.1.1 of the NFPA 150 Fire and Life Safety in Animal Housing Facilities Code.
- j. Minimum water supply shall be delivered in accordance with Table 9-1.
- k. Water delivery rate may be adjusted by the Town giving consideration to local conditions and need. The minimum water delivery rate shall not be less than 250 gpm (950 L/min).

Minimum Water Delivery Rate to Fire Scene

Total Water Supply Required		Water Delivery Rate	
Gallons	Liters	GPM	L/Min
<2,500	9,459	250	950
2,500-9,999	9,460-37,849	500	1,900
10,000-19,999	37,850-75,699	750	2,850
>20,000	>75,000	1,000	3,850

- l. Water supplies developed to meet this standard shall be permitted to be used for fighting fires in other structures or for use during other emergency activities.
4. **Road Plan** - Traffic study and road improvement needs analysis and road improvement construction plans will include:
- a. Identification of all roads used for delivery of supplies, food, and livestock to the facility including interstate, federal, state and county highways, town roads and private roads.
 - b. Traffic counts on all local non-interstate roads/highways, and projected traffic counts with special attention to less used roads.
 - c. Identification and evaluation of impact on congestion points.
 - d. Identification of tight turns that may need additional signage or improvements for safety.
 - e. Improvement needs analysis and road traffic and roadway improvement plans.
 - f. Signed engineering approval for a. to e.
 - g. Letters of conformance, on agency letterhead, stating that Application-submitted plans are complementary with and are in conformance with the associated traffic and road plans and requirements of and from the local, regional, state and federal road and transportation authorities.

5. **Filtration of Exhaust Air**-Every building containing livestock, animal waste, and carcasses or other biological waste must have a filtration system for outgoing air. "Filtration unit" or "filter unit" includes components of the blower system or fan and filtration equipment that is attached to or used in conjunction with the blower system or fan. For each building requiring a filtration system for outgoing air, provide the following information:

a. Manufacturer of the Filtration System*:

b. Filter unit description:

Filter type: _____

Filter size: _____

c. Air volume for exhaust fans (CFMs):

per filtration unit: _____

Total air volume for entire building: _____

d. Noise rating:

per filtration unit: _____

For entire building: _____

*If applicant's facility has more than one building that requires filtration of outgoing air, provide the above requested information for each building.

J. Compliance Assurance Testing, Sampling and Monitoring Plan shall provide and demonstrate chain-of-command for reporting and correction of deviations from all the plans' metrics, including:

1. Daily monitoring of all operations for compliance.
2. Inspection and sampling of storm water discharges.
3. Quarterly groundwater monitoring to allow for corrective actions and containment to prevent offsite or vertical migration.
4. Verification of testing method efficacy and quality assurance.
5. Reporting within 24 hours of deviations to the owner, corrective measures contractor and identified Town authorities.

K. Compliance Assurance Plan shall provide and demonstrate:

1. Prepared plans and procedures are based on sound science and include an updated review of best practices, technologies, and test methods.
2. Specific compliance metrics to assure that the performance requirements of the plans are met, and the permit approval conditions are satisfied.
3. Specific emergency measures for deviation from the plan's metric.
4. Annual audits, inspections, and certification by qualified, experienced, and licensed third parties approved by the Town demonstrate compliance with the procedures and provisions of the various operational plans, including with the identified metrics.

Financial Surety:

Type of financial surety provided by Applicant: _____

Financial institution providing financial surety for Applicant or with which Applicant has deposited cash for irrevocable letters of credit: _____

Upon notification of finance assurance or deposit approval and conformance with permit conditions, the Applicant will provide the Turnaround of Trade Lake with a copy of documentation for the financial assurance.