

San Joaquin Valley Air Pollution Control District

www.valleyair.org

Authority to Construct/Permit Application Form

Rule 4570 Permit Application Form

Other Cattle Confined Animal Feeding (CAF) Mitigation Measures

Facility Name: _____

Facility Location: _____

Mailing Address: _____

Phone No.: (____) _____ - _____

Cell Phone No.: (____) _____ - _____

Owner/Operator: _____

Title: _____

Signature: _____

Date: _____

Instructions

1. Please completely fill out the tables included in the following pages of this form indicating the mitigation measures that you will be utilizing to comply with Rule 4570.
2. This application must be submitted with application filing fees totaling \$325 (\$65 per permit unit x 5 permit units). If submitting this form at a workshop, please do not submit the fees at the workshop. The District will send you an invoice at a later date.
3. Have you received a CMP Plan as required by District Rule 4550 or permit from the District for your existing operation?
 - If yes, what is your facility number? _____
 - If you have not received a CMP Plan or permit from the District, you must fill out the following application forms and attach them to this form. The application forms may be found on the District's website at http://www.valleyair.org/General_Info/AGLoader.htm:
 - **Initial Permit Application Form for Farms (Form "PA-0")**
 - **Permit Application Form for Applicable CAF (dairy, feedlot, etc.)**
 - **CMP Plan Application (Form "CMP 0")**
 - **CMP Supplemental Application for Applicable CAF (dairy, feedlot, etc.)**
 - **Other Applicable CMP Supplemental Application Forms**

FOR APCD USE ONLY:

DATE STAMP:

FILING FEE

RECEIVED: \$ _____ CHECK #: _____

DATE PAID: _____

PROJECT #: _____ FACILITY ID: _____

Northern Regional Office * 4800 Enterprise Way * Modesto, California 95356-8718 * (209) 557-6400 * FAX (209) 557-6475
Central Regional Office * 1990 East Gettysburg Avenue * Fresno, California 93726-0244 * (559) 230-5900 * FAX (559) 230-6061
Southern Regional Office * 34946 Flyover Court * Bakersfield, California 93308 * (661) 392-5500 * FAX (661) 392-5585

<p style="text-align: center;">Feed Mitigation Measures</p>	<p>Other cattle owners/operators must select at least <u>five</u> of the following feed mitigation measures:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Feed according to National Research Council (NRC) guidelines. <input type="checkbox"/> Feed animals with high moisture corn or steam-flaked corn and not feed animals dry rolled corn. <input type="checkbox"/> At least once every 14 days remove feed from the area where animals stand to eat. <input type="checkbox"/> At least once every 14 days remove spilled feed from the area where equipment travels to place feed in the feed bunk. <input type="checkbox"/> Remove uneaten wet feed from feed bunks within 24 hours of a rain event. <input type="checkbox"/> Feed or dispose of rations within 48 hour of grinding and mixing rations. <input type="checkbox"/> Store grain in a weatherproof storage structure from October through May. <input type="checkbox"/> Implement an alternative mitigation measure(s), not listed above. <i>Please provide details on an attached Alternate Mitigation Measures supplemental application form.</i>
<p style="text-align: center;">Feed Mitigation Measures</p>	<p>Other cattle owners/operators must select at least <u>one</u> of the following feed mitigation measures:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Cover the horizontal surface of silage piles, except for the area where feed is being removed from the pile. <input type="checkbox"/> Collect leachate from the silage piles and send it to a waste treatment system such as a lagoon at least once every 24 hours. <input type="checkbox"/> Enclose silage in a bag and vent to a VOC control device with a combined VOC capture and VOC control efficiency of at least 80%. (Please note: Source testing per Section 7.2 of Rule 4570 will be required.) <input type="checkbox"/> Enclose silage in a weatherproof structure and vent to a VOC control device with a combined VOC capture and VOC control efficiency of at least 80%. (Please note: Source testing per Section 7.2 of Rule 4570 will be required.) <input type="checkbox"/> Eliminate silage from animal diet. <input type="checkbox"/> Implement an alternative mitigation measure(s), not listed above. <i>Please provide details on an attached Alternate Mitigation Measures supplemental application form.</i>
<p style="text-align: center;">Solid Waste Mitigation Measures</p>	<p>Other cattle owners/operators which handle solid animal waste or separated solids animal waste stored outside the animal housing must select at least <u>one</u> of the following solid or separated solids animal waste mitigation measures:</p> <p>Please note, only one of the following <u>two</u> measures will count towards the <u>one</u> required for this category.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Cover dry animal waste piles outside the pens with a weatherproof covering from October through May, except for times, not to exceed 24 hours per event, when wind events remove the covering. <input type="checkbox"/> Store no dry animal waste piles outside the pens from October through May. <p>Please note, any of the following <u>six</u> measures may be selected.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Remove animal waste from the facility within 72 hours of removal from the pens. <input type="checkbox"/> Compost animal waste removed from pens with an aerated static pile vented to a VOC control device with an overall VOC capture and VOC control efficiency of at least 80%. <input type="checkbox"/> Store all removed animal waste in an enclosure vented to a VOC control device with an overall VOC capture and VOC control efficiency of at least 80%. <input type="checkbox"/> Send at least 51% of the animal waste removed from animal housing to a digester, with a VOC control device with an overall VOC capture and VOC control efficiency of at least 80%. <input type="checkbox"/> Use a slatted floor system (slatted floors over deep pits or shallow flush alleys), with daily animal waste removal. <input type="checkbox"/> Implement an alternative mitigation measure(s), not listed above. <i>Please provide details on an attached Alternate Mitigation Measures form.</i>
<p style="text-align: center;">Land Application Mitigation Measures</p>	<p>Other cattle owners/operators which land apply dry or liquid animal waste must select at least <u>two</u> of the following land applied dry or liquid animal waste mitigation measures:</p> <p>Please note, only one of the following <u>two</u> measures will count towards the <u>two</u> required for this category.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Allow liquid animal waste to stand in the fields no more than 24 hours after irrigation. <input type="checkbox"/> Apply no liquid animal waste. <p>Please note, only one of the following <u>two</u> measures will count towards the <u>two</u> required for this category.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Apply no solid animal waste with a moisture content of more than 50%. <input type="checkbox"/> Apply no solid animal waste. <p>Please note, any of the following <u>three</u> measures may be selected.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Land incorporate all solid animal waste within 72 hours of removal from animal housing. <input type="checkbox"/> Only apply solid or liquid animal waste that has been treated with an anaerobic or aerobic lagoon or digester system. <input type="checkbox"/> Implement an alternative mitigation measure(s), not listed above. <i>Please provide details on an attached Alternate Mitigation Measures supplemental application form.</i>

**Housing
Mitigation
Measures**

Other cattle owners/operators must select at least seven of the following mitigation measures for each animal housing structure:

Please note, only one of the following two measures will count towards the seven required for this category.

- Maintain pens to ensure drainage and prevent water from standing more than 48 hours after a storm.
- Prior to placing cattle in pens, scrape or smooth the pen floors such that there are not indentions where puddles may form and remain for more than 48 hours.

Please note, only one of the following three measures will count towards the seven required for this category.

- Install no shade structures in the corrals.
- Install shade structures such that they are constructed with a light permeable roofing material.
- Install shade structures such that situated so that they are uphill of any slope in the corral.

Please note, only one of the following two measures will count towards the seven required for this category.

- Use lime or a similar absorbent material in the pens according to the manufacturer's recommendation to minimize moisture in the pens.
- Apply thymol to the feedlot soil in accordance with the manufacturer's recommendation.

Please note, any of the following nineteen measures may be selected.

- Vacuum, scrape, or flush freestalls at least once every 14 days (only applies to facilities with freestalls).
- Inspect water pipes and troughs and repair leaks at least once every 14 days.
- Use non-animal waste-based bedding and non-separated solids based bedding for at least 90% of the bedding material, by weight, for freestalls (e.g. rubber mats, almond hulls, sand, or waterbeds).
- Remove animal waste that is not dry from individual cow freestall beds daily (only applies to facilities with freestalls).
- Groom (rake, harrow, scrape, or grade) bedding in freestalls at least once every 14 days (only applies to facilities with freestalls).
- Use a dry animal waste handling system, such as scraping, instead of a liquid animal waste handling system such as flushing.
- Have no animals in exercise pens, corrals, or drylots at any time.
- Clean animal waste from corrals and pens at least once between April and July and at least once between October and December of each year.
- Manage pens such that the animal waste depth in the pen does not exceed 18 inches at any time or point, except for in-corral mounds.
- Knockdown fence line animal waste build-up prior to it exceeding a height of 12 inches at any time or point.
- Scrape or flush feed aprons in all corrals at least once every 7 days.
- Slope the surface of the pens at least 3% where the available space for each animal is 400 square feet or less. Slope the surface of the pens at least 1.5% where the available space for each animal is more than 400 square feet per animal.
- Install floats on the troughs or use another method approved by the APCO, ARB, and EPA to ensure that the water in the troughs does not intentionally or unintentionally overflow or spill onto the earthen ground.
- Groom (harrow, rake, or scrape) pens and corrals sufficiently to maintain a dry surface, unless the pens have not held animals in the last 30 days.
- Clean the area where the animals stand to consume feed such that the depth of animal waste does not exceed 12 inches at any time or point.
- Vacuum animal waste instead of flushing or scraping and apply animal waste directly to land either through injection or incorporation.
- House animals in an enclosure vented to a VOC control device with a combined VOC capture and VOC control efficiency of at least 80%.
- Implement an alternative mitigation measure(s), not listed above. *Please provide details on an attached Alternate Mitigation Measures supplemental application form.*

**Liquid
Waste
Mitigation
Measures**

Other cattle owners/operators which handle liquid animal waste must select at least one of the following liquid animal waste mitigation measures:

Please note, only one of the following two measures will count towards the one required for this category.

- Use phototrophic lagoon. (Please note: Testing per Section 7.2 of Rule 4570 will be required.)
- Use an anaerobic treatment lagoon designed according to NRCS Guideline No. 359. (Please note: Testing per Section 7.2 of Rule 4570 will be required.)

Please note, only one of the following two measures will count towards the one required for this category.

- Use an aerobic lagoon. (Please note: Testing per Section 7.2 of Rule 4570 will be required.)
- Use a mechanically aerated lagoon (aerators). (Please note: Testing per Section 7.2 of Rule 4570 will be required.)

Please note, any of the following seven measures may be selected.

- Manage the facility such that there are no lagoons at the facility. (Lagoons are defined as a basin constructed, maintained, and operated to store and treat animal waste. This does not include basins primarily used to collect runoff and stormwater.)
- Remove solids from the waste system with a solid separator system, prior to the waste entering the lagoon.
- Maintain lagoon pH between 6.5 and 7.5.
- Maintain organic loading in the lagoon such that the total solids are less than 3.5 mg (dry weight)/mL, or total volatile solids are less than 3.5 mg/mL.
- Use additional non-standard equipment or chemicals on the solid separator system, such as roller or screw presses or chemical coagulants and flocculants, that increase the percent of solid separation achieved by the separator and that is approved by the APCO, ARB, and EPA.
- Cover the lagoon or storage pond and vent to a VOC control device with an overall VOC capture and VOC control efficiency of at least 80%.
- Implement an alternative mitigation measure(s), not listed above. *Please provide details on an attached Alternate Mitigation Measures supplemental application form.*