

APPENDIX 1
Monitoring and Reporting Program No. R2-2015-0031

Revised 10/18

Report Date: _____ **Annual Report**

San Francisco Bay Regional Water Quality Control Board
Conditional Waiver of Waste Discharge Requirements for Existing Dairies
Order No. R2-2015-0031

Due November 30; reporting for preceding 12 month period (November 1 through October 31).

Facility Name: _____ Facility Address: _____
No. Street City Zip

Operator: _____ Mailing Address: _____

Phone: () _____ E-mail: _____

Property owner: _____ Mailing Address: _____

Phone: () _____ E-mail: _____

Current # of mature dairy cows (milking + dry): _____

Current # and type of other animals: _____

Current parcels (production and grazing): _____

Within the last year has any of the above information changed? _____ If yes, please highlight new information.

The objective of the Annual Report is to provide compliance updates, demonstrate that the dairy is ready for the rainy season, document required water quality monitoring and actions taken to correct identified problems, and to demonstrate that each facility is operating in compliance with the requirements of Order No. R2-2015-0031 (Conditional Waiver).

Any discharges of waste, waste water or contaminated storm water that may endanger human health or the environment, must be verbally reported within 24 hours of becoming aware of the occurrence to the **Water Board Spill Hotline at (510) 622-2369** and to the **California Office of Emergency Services (OES) at (800) 852-7550**. Within 14 business days, a written report describing the incident and resulting corrective actions must be submitted, as indicated below.

By November 30 of each year, please complete this form to document compliance and submit it to:

Mail	FAX	Email
San Francisco Regional Water Quality Control Board ATTN: Confined Animal Facility Program 1515 Clay Street, Suite 1400 Oakland, CA 94612	San Francisco Bay Regional Water Quality Control Board ATTN: Confined Animal Facility Program (510) 622-2460 (fax)	R2ConfinedAnimals@waterboards.ca.gov

Please complete the following Annual Report by checking all actions completed and attaching documentation of any water quality threats and corrective actions taken. Provide photographs and explanations as indicated.

A. Compliance Status

Each facility must develop and implement the following programs/plans consistent with technical standards and schedule, specified within the Conditional Waiver, and provide a written certification that each plan is prepared and implemented in accordance with the minimum requirements, by each due date. Please check all that apply.

1. Facility Monitoring Program - Due November 1, 2016

- ✓ On-site inspection and monitoring plan is completed and ready for upcoming rainy season. Yes No

If no, please explain: _____

- ✓ The dairy is participating in a group monitoring program. Yes No

If yes, which group? _____

If not participating in a group monitoring program, did you complete the individual surface water sampling requirements? Yes No

If no, please explain: _____

2. Waste Management Plan (for production area) - Due November 30, 2017

- ✓ Plan is completed / updated Yes No Not Applicable (N/A)
- ✓ Plan is fully implemented Yes No N/A Date of completion: _____
- ✓ Certification is attached Yes No N/A Previously submitted

If no, please explain: _____

3. Grazing Management Plan (if 50 acres or more are grazed) - Due November 30, 2017

- ✓ Plan is completed / updated Yes No N/A Date of completion: _____
- ✓ Plan is fully implemented Yes No N/A
- ✓ Certification is attached Yes No N/A Previously submitted

If no, please explain: _____

4. Nutrient Management Plan (if waste is applied to land) - Due November 30, 2019 (facilities with 700 or more mature cows must have a nutrient management plan upon waiver enrollment)

- ✓ Plan is completed / updated Yes No N/A Date of completion: _____
- ✓ Was the plan prepared through: Technical education program Other professional

Provide name of program or professional _____

- ✓ Plan is fully implemented Yes No N/A
- ✓ Certification is attached Yes No N/A Previously submitted

If no, please explain: _____

B. Pre-Rainy Season Pollution Prevention

To demonstrate that the dairy is prepared for the upcoming rainy season, please attach photo-documentation of compliance with required preseason pollution prevention measures listed below. This report will be deemed incomplete if detailed explanations are not provided for each “No” or “N/A” response.

- Yes No N/A Runoff from all roofed areas is diverted away from confined or heavily manured areas through working gutters or other means.
- Yes No N/A Berms, ditches and other measures used to divert surface drainage away from manured areas or waste impoundments are adequately maintained and protected against erosion.
- Yes No N/A All uncovered confined or heavily manured areas including corrals, feeding, watering or loafing areas, not draining into retention ponds have been scraped clean and/or otherwise protected.
- Yes No N/A Animals have been relocated away from all uncovered confined areas not draining into retention ponds.
- Yes No N/A All waste containment facilities, pumping equipment, pipes and other conveyances have been inspected, maintained, and are free of leaks.
- Yes No N/A All retention ponds have been emptied, properly maintained, and protected from inundation or washout.
- Yes No N/A Retention pond liners have not been damaged during clean-out process
- Yes No N/A Manure and wastewater have been applied to land or stockpiled at least 100 feet from any surface water, domestic well head, and flood-prone or heavy run-off areas prior to November 30. (A 35-foot vegetative buffer or physical barrier can be substituted for the 100-foot setback. If such an alternative practice is used, provide details below.)

Explain No or N/A answers: _____

Date(s) of Pre-Rainy Season Inspections: _____

C. Compliance Inspections

Periodic visual inspections must be conducted to ensure each facility is operated and maintained in compliance with the Conditional Waiver. Observations of any threats to water quality and corrective actions taken shall be documented throughout the year and reported below. Please check all that apply and explain each "No" response.

Production / Confined Area Inspections

- Yes No Did you conduct daily inspections of confined and production areas, including retention ponds, pumping equipment, water lines, corrals, travel lanes, water crossings, feed storage areas, loafing areas, etc., to confirm that:
- ✓ All storm water contacting waste was contained;
 - ✓ All non-storm water waste and/or wastewater was contained;
 - ✓ Animals were prevented from entering surface waters or clean storm water diversion ditches; and
 - ✓ Clean storm water was diverted away from manured areas?

If no, explain: _____

Retention Pond Inspections

- Yes No Did you conduct weekly inspections of retention ponds to confirm that:
- ✓ 2 feet of freeboard was maintained for partially or completely above ground ponds or 1 foot freeboard for those completely in ground; and
 - ✓ Berms were free of cracking, slumping, excess vegetation, animal burrows and/or seepage?
- Yes No Was freeboard measured and recorded monthly during the dry season (Apr.-Sept.)?
- Yes No Was freeboard measured and recorded weekly during the rainy season (Oct.-Mar.)?

If no, explain: _____

Storm Event Inspections

- Yes No Did you conduct inspections of entire facility before, during and after storm events to confirm that:
- ✓ Retention ponds and structures were sound and had adequate capacity;
 - ✓ Receiving waters, both up and downstream of facility were monitored, and water quality changes were documented; and
 - ✓ All pollution prevention measures, for confined areas, grazing lands, and land application areas were implemented and effective?

If no, explain: _____

Cropland and/or Pasture Inspections (areas where wastewater and manure are applied)

- Yes No Did you conduct land application inspections at least once daily during each irrigation and/or spreading event, to confirm that:
 - ✓ Land application activities did not result in erosion, field saturation, runoff, or nuisance conditions; and
 - ✓ Liquid or solid manure was applied to land according to required set-backs from waterways, flood-prone and heavy run-off areas?

- Yes No Did you record the dates, locations, and approximate volumes of waste water and/or solid waste applied to land?

- Yes No Did you record the weather conditions at the time of, and 24 hours prior to, waste water and/or solid waste application to cropland?

Grazing Lands Inspections (required for grazing lands of 50 acres or more)

- Yes No Did you conduct grazing land inspections at least monthly during the rainy season and twice during the dry season, including upstream and downstream inspection of the closest surface water body, to confirm that:
 - ✓ Chosen management practices were implemented and minimum requirements for grazing operations were met; and
 - ✓ Grazing activities did not result in adverse impacts to receiving waters.

- Yes No Did you measure and/or estimate grazing land residual dry matter (RDM), prior to the first fall rains?

RDM result (lbs. / acre): _____

If recommended standards were not met, or if you did not measure RDM, please provide an explanation below: _____

✓ **Based on your visual inspections and observations during the past year, did you discover any threats to water quality or pollutant discharges to surface or groundwater?**

- Yes No

If yes, include a detailed description (location, date/time, photographs, and estimated amount of release) and corrective actions taken at the time of the pollution threat and/or discharge (attach additional pages if necessary). _____

E. Water Quality Sampling

The information below summarizes the water quality sampling results, as required in the Monitoring and Reporting Program (Conditional Waiver, Attachment A). Please refer to Attachment A, Section C, for sampling and data analysis procedures.

Surface Water Sampling:

If you are not identified as participating in a Group Monitoring Program, you are responsible for individual surface water sampling as required in Conditional Waiver, Attachment A. Sampling shall take place during or directly following each of 3 major storm events, after at least 1 inch of rain per 24 hours. Sampling events shall be at least 14 days apart.

1. Provide surface water sampling results in the table below or attach similar documentation, including any lab reports. Also attach a map of the sampling locations, including proximity of the confined facilities and land application areas.
2. Describe your sampling methods (field equipment, test kits, measurement devices, etc.): _____

Constituent	Benchmark	Sampling Results	
		Sample I.D.	Result
Specific conductance	Below 2000 μ S/cm		
Total ammonia nitrogen (NH ₃ + NH ₄ ⁺)	Below 1 ppm (or mg/l) and meets calculated unionized ammonia benchmark		
Unionized ammonia (NH ₃) as calculated	0.025 mg/l		
pH	6.5-8.5		
Temperature (°C)	none		

Ground Water Sampling:

All dairies must conduct ground water sampling (even if you are participating in a group monitoring program). Any existing representative wells located within the confined facility, including domestic and agricultural supply wells, shall be sampled 4 times total, approximately 6 months apart. A sample must be collected in: **(1) Fall 2016, (2) Spring, 2017, (3) Fall 2017, and (4) Spring 2018.** Results of groundwater samples collected consistently with the sampling protocols and within these time frames for another purpose (e.g. for a County Health Department or by the County milk inspector) may be submitted to the Water Board instead of collecting additional samples. The sample must be representative of groundwater well conditions (i.e. not disinfected).

Groundwater samples shall be analyzed by a laboratory certified by the State Department of Health Services or a laboratory pre-approved by the Water Board staff.

Constituent	Benchmark (municipal supply)	Sampling Results (complete below and attach lab reports)		
		Fall 2017		
Nitrate	45.0 mg/l	Well I.D.	Nitrate	Total Coliform
Total Coliform Bacteria	1.1 MPN/100 ml			
Spring 2018				
		Well I.D.	Nitrate	Total Coliform

Note: If all sampling events have not been completed during the required time periods, future sampling is required until all wells have been sampled a total of 4 times, approximately 6 months apart.

F. Summary

- Yes No Have all the required monitoring and inspections been completed?
- Yes No Have all required reports been submitted to the San Francisco Bay Regional Water Quality Control Board?
- Yes No Based on your visual inspections and water quality monitoring results, did your facility operate in compliance with the Conditional Waiver?

If no, explain: _____

Certification

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this report and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Printed Name **Title**

Signature **Date**