APPENDIX 3

General Waste Discharge Requirements
Monitoring and Reporting
Order No. R1-2012-0002

Annual Report

Report Date: _____
Month / day / year

For Dairies Covered by Order No. R1-2012-0002
General Waste Discharge Requirements
For Existing Cow Dairies

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

Facility Information

Facility: _____ Address: _____
No. Street City Zip

Operator: _____ Address: _____

Phone: (____) _____ E-mail: _____

Property owner: _____ Address: _____

Phone: (____) _____ E-mail: _____

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

Current # of other dairy cattle: _____

1. **In the previous year, have changes been made to the facility Waste Management Plan? Yes ☐ No ☐ If yes, please attach explanation.** _____
2. **In the previous year, has a Nutrient Management Plan been prepared or revised for your facility?** ___ _____ **Yes ☐ No ☐ If yes, please attach explanation.**
3. **Has the dairy had a manure or process water discharge to surface or groundwater in the past year? Yes ☐ No ☐**
4. **If so, where and how was the problem resolved?** _____
_____
_____
_
5. **Please answer the following questions pertaining to facility conditions and actions taken within the previous year to comply with conditions of the Waiver:**

"N/A" means that the subject is not applicable to the facility covered by this report)

A. Prevent animals from entering any surface water within confinement areas: ("Surface water" means waters of the United States or any tributary to a water of the United States)							
Are barriers used to keep animals out of surface waters?	❑ Yes	❑ No	❑ N/A	Are watercourse crossings designed and maintained to protect water quality?	❑ Yes	❑ No	❑ N/A
Are feed sites located away from surface waters?	❑ Yes	❑ No	❑ N/A				
Description of deficiencies (if any) or additional information:							

B. Divert clean stormwater runoff away from manured areas (including heavily used pastures)							
Do buildings have effective gutters?	❑ Yes	❑ No	❑ N/A	Is stormwater that contacts manured areas and feed storage areas contained in holding ponds?	❑ Yes	❑ No	❑ N/A
Is guttered water diverted away from manured areas?	❑ Yes	❑ No	❑ N/A	Is clean stormwater runoff managed separate from manure and process water?	❑ Yes	❑ No	❑ N/A
Is guttered water contained in holding ponds?	❑ Yes	❑ No	❑ N/A	Are diversion ditches functional and properly maintained to protect surface waters?	❑ Yes	❑ No	❑ N/A
Description of Deficiencies (if any) or Additional Information:							

C. Is the dairy designed to retain all manure and process water generated at the facility, including all runoff from manured areas produced during a 25-year, 24-hour storm? Are wastes managed and containedto protect surface water and groundwater?

Material to be contained	Yes	No	N/A	Material to be contained	Yes	No	N/A
All manure solids	❑	❑	❑				
Runoff from solids storage areas	❑	❑	❑	Waste milk	❑	❑	❑
Runoff from corrals that contain manure	❑	❑	❑	Veterinary waste	❑	❑	❑
Milk barn washwater	❑	❑	❑	Hazardous wastes (pesticides, etc.)	❑	❑	❑
Runoff and leachate from silage	❑	❑	❑				

Description of deficiencies (if any) or additional information:

System component & condition	Yes	No N/A	**System component & condition**	Yes	No N/A
Ponds are designed to contain all process water and stormwater runoff during a 25-year, 24-hour storm or have a Contingency Plan fully protective of surface water quality?	❑	❑□	Design calculations are available for manure storage system?	❑	❑□
Above-ground soil and clay lined manure ponds have a least 2 ft freeboard? In-ground manure ponds have at least 1 foot of freeboard?	❑	❑□	The facility has a solids separation system?	❑	❑□

Ponds are cleaned annually to maintain capacity and check liner integrity?	❑	❑☐	The pumping system is maintained?	❑	❑☐

Are dead animals handled in a manner protective of surface water and groundwater quality? Yes ☐ No ☐

Description of Deficiencies (if any) or Additional Information:

E. Photo Documentation per Monitoring and Reporting Plan

Please attach photo documentation of compliance with required preseason pollution prevention measures. Photos of newly implemented pollution prevention measures to protect surface and groundwater may be submitted. Examples of pollution prevention includes cleaning of manure ponds, stormwater separation from manured areas, scraping of manured areas, covering manure piles, compost, and feed storage areas, impermeable ground covering in these storage areas to prevent groundwater contamination, stream zone protection, and any other best management practices or control measures for water quality protection. The objective of the Annual Report is to demonstrate that the dairy is ready for the wet season. Photo Documentation of Preseason BMPs Attached	❑ Yes	❑ No	

F. Water Quality Sampling

The information below summarizes the water quality sampling requirements, as presented in the Monitoring and Reporting Program.

Surface Water Sampling
Surface watercourses that flow through the dairy property, including the production area, cropland, or pastures, must be sampled using grab samples at the point where watercourses enter and leave the property. Alternatively, if surface waters flow adjacent to the property but not through the property, and are located such that they could be impacted by activities at the dairy, the grab samples shall be collected upstream and downstream of the areas closest to the dairy property. Sampling shall take place during or directly following each of three (3) major storm events of one (1) inch or more per 24 hours, during the rainy season, beginning in the winter of 2012/2013. Three (3) measurements of electrical conductivity taken three (3) minutes apart shall be recorded during each sampling event at each location. Ammonia nitrogen, pH, and temperature shall be collected once at each sampling location for each sampling event during or following storm events described in this section above.

Electrical Conductivity (EC)	Mmhos
Ammonia Nitrogen (NH_4)	mg/L
pH	
Temperature	^oC

Groundwater Well Sampling
Representative wells currently used and located at the dairy, including domestic and agricultural supply wells, shall be sampled four (4) times total, approximately six (6) months apart. A sample must be collected in: (1) Fall 2012, (2) Spring 2013, (3) Fall 2013, and (4) Spring 2014. One (1) sample from each well shall be tested for the following parameters:

Constituent	Units
Nitrate	mg/L
Fecal Coliform Bacteria	MPN/100mL

Has all surface and ground water quality sampling been completed as described in the Monitoring and Reporting Plan? Yes ☐ No ☐

Have all water quality results from the past 12 months been attached? Yes ☐ No ☐

The MRP requires recording of visual observations, such as changes in stream color or turbidity at the time of sampling. Please include those observations below or in an attachment.

G. **Best Management Practices**
(In this section please describe the condition and effectiveness of management measures not previously described elsewhere in this Annual Report. Please attach additional sheets if more space is needed to fully answer these topics)

Erosion Control: Please describe all other measures not previously described, that to prevent and minimize the occurrence of erosion and discharge of manure, feed, waste, and soil particles from the dairy to surface or groundwaters:

_____

_____

Nuisance Control: Please describe all new measures taken to prevent nuisances. Include odors, breeding mosquitoes, damage from burrowing animals, damage from equipment during removal of solids, embankment settling, erosion seepage, excess weeds, algae, and other vegetation that could compromise the needed capacity or proper functioning of your facility and/or degrade water quality:

_____

_____

Groundwater Protection: Describe new measures taken to protect groundwater from contamination at wellheads, sinkholes, and tile drains:

_____

_____

Describe all new measures taken to protect water quality at livestock crossings outside the production area:

_____

_____

Are the liners of the manure ponds protective of water quality (free of weeds, animal burrows, and cracks that may disturb the liner)? Please describe:

_____

Do the manure ponds have sufficient storage capacity prior to the rainy season as required in the Order? Describe the method used to make this determination:_____

_____

_____

For facilities without a prepared Nutrient Management Plan:

In the past year, was manure and process water generated at your facility applied to pastures, fields or crop lands at rates that are agronomically sound for the crop, soil, climate, special local situations, management system, and manure/wastewater characteristics? Yes ☐ No ☐

_____

If yes, please explain:_____

Please describe the measures taken to avoid surface runoff of manure constituents from the dairy's land application areas:

_____

_____

_____

Describe the measures taken to separate or divert stormwater from contacting manured areas, corrals, pens, and animal housing areas:

_____

_____

Describe the measures taken to minimize infiltration of manure-laden water into underlying soils within manured areas, corrals, pens, and animal housing areas:

_____

_____

H. Summary

Has all required monitoring been conducted?	Yes ☐	No ☐
Have all required reports been submitted to the Regional Water Board?	Yes ☐	No ☐
Does facility meet Regional Water Board Waiver criteria?	Yes ☐	No ☐

Reports shall be submitted by November 30 of each year (starting in 2012) to:

North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403
Phone (707) 576-2220
Fax (707) 523-0135

I. Certification of Report Preparer

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 Month / day / year