APPENDIX 3

Monitoring and Reporting Program No. R1-2019-0001

Annual Report

Report Date: _

Month / day / year

North Coast Regional Water Quality Control Board General Waste Discharge Requirements for Existing Dairies

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

Essility Information

Facility information		
Facility:	Address: No. Street	City Zip
Operator:		
Phone: ()	E-mail:	
Property owner:		
Phone: ()	E-mail:	
Dairy Animal Population:		
	Present Number of Dairy Animals	Other Dairy Animals if applicable:
	(check one)	Water Buffalo
	Dairy cows	Sheep
	Water Buffalo	Goats
	Sheep	Other Dairy Animal (please
	Goats	specify):
Mature Dairy Animals (Milking + dry)		
Heifers (12 to 24 months)		
Calves (birth to 12 months)		
Mature Males: Bulls/Bucks/Rams		
Other (specify)		

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 General Waste Discharge Requirements for Dairies, Order No. R1-2019-0001 (GWDR).

In the previous year, have changes been made to the dairy Water Quality Plan? Yes
 No
 If yes, please explain. Include land management changes such as on dairy land parcels owned or
 leased, change in average volume of wastewater generated daily, acreage that receives process water or
 manure, compost operations, etc.:

 Has the dairy had a manure or process water discharge to surface water or groundwater in the past year? Yes: _____ No: _____

If so, where and how was the problem resolved?

 Are you aware of your responsibility to report any noncompliance with this GWDR on your dairy that endangers human health or the environment within 24 hours of becoming aware of its occurrence? Yes: ____ No: ____

Please answer the following questions pertaining to facility conditions and actions taken within the previous year to comply with conditions of the GWDR:

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

animals out of surface waters?	□ Yes	□ No	□ N/A	Are watercourse crossings designed and maintained to protect water quality?	□ Yes	□ No	D N/A
Are feed sites located away from surface waters?	□ Yes	□ No	D N/A				
Description of deficiencies (if an	y) or ad	ditional	informa	ition:			
		-		red areas (including heavily used pastures)			
Do buildings have effective	noff awa	ay from	n manui D N/A	Is stormwater that contacts manured areas	☐ Yes	D No	D N/A
Do buildings have effective				Is stormwater that contacts manured areas and feed storage areas contained in holding			
Do buildings have effective gutters? Is guttered water diverted	☐ Yes	D No	D N/A	Is stormwater that contacts manured areas and feed storage areas contained in holding ponds?	Yes	No	N/A
Do buildings have effective gutters? Is guttered water diverted away from manured areas?	U Yes	No	N/A	Is stormwater that contacts manured areas and feed storage areas contained in holding ponds? Is clean stormwater runoff managed	Yes	No	N/#
Do buildings have effective gutters?	☐ Yes ☐ Yes	No No	N/A	Is stormwater that contacts manured areas and feed storage areas contained in holding ponds? Is clean stormwater runoff managed separate from manure and process water?	Yes D Yes	No D No	N/# D N/#

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C. Please indicate whether the following materials are managed and contained on the dairy during rain events to 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 annure			Veterinary waste			
Milk barn washwater			Hazardous wastes (pesticides, etc.)			
Runoff and leachate from silage						
Description of deficiencies (if any) or additional information:						
D. System components & condition	Yes	No N/A	System component & condition	Ye	S	No N/A
Manure 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 protect	ive of su	rface w	ater and groundwater quality? Yes \Box	No	0	
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 shall 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.		
Annually, please include dated photos of the watercourse assessment. This includes photos of riparian vegetation, streambanks, watercourse crossings, and any potential erosion that could discharge to watercourses. Photos are to show current water quality protection and any projects that are in progress to improve water quality.		
The objective of the Annual Report is to demonstrate that the dairy is ready for the rainy season and will not discharge sediment and nutrients to surface waters or groundwater.		
	□ Yes	🗆 No
Photo Documentation of Preseason Best Management Practices is Attached		

	Parameter Units	<u>8</u>
	Electrical Conductivity (EC) Mmh	IOS
	Total Ammonia Nitrogen ($NH_3 + NH_4^+$) mg/	L
		observation such as stream was clear, opaque, slightly t rely, turbidity measurements may be used.
a.	then you are responsible for individual surface	re not identified as participating in a group monitoring pro water sampling as required in GWDR-Attachment D: MR owing each of 3 major storm events, after at least 1 inch o t 14 days apart.
	season that occurred prior to submittal of the Also, attach a map of the sampling location	November 1 through October 31 for the previous winter his report. Include time and location of each sample colle is. nodel number and type of field equipment, test kits,
b.	Sampling: Is this dairy a current member of a monitoring?_Yes: No:	group monitoring program that conducts the surface wate
	If so, which group?	
C.	Yes: No:	and submitted in accordance with the GWDR and MRP

Representative groundwater wells located at all existing dairies, including domestic and agricultural supply wells, shall be sampled once per year for the first three years beginning in the year 2020, and then just once every three years thereafter. For example, existing dairies shall sample groundwater in the years 2020, 2021, 2022, then 2025, 2028, 2031, and so on. New dairies, expanding dairies, and previously inactive dairies shall sample the first three consecutive years after enrollment in this GWDR and then once every three years thereafter. Additional groundwater sampling may be required by the Regional Water Board based on results as stated in the GWDR and MRP.

All groundwater samples must be tested for: Units Parameter mg/L Nitrate Total Dissolved Solids (TDS) mg/L Only domestic supply wells at the dairy need to be tested for total coliform bacteria: Total Coliform Bacteria **MPN/100 mL** Has all ground water quality sampling been completed as described in the MRP? Yes 🗆 No 🗆 Groundwater results are required to be uploaded to Geotracker as a searchable pdf copy as described in the MRP. Groundwater monitoring data shall be uploaded to Geotracker in an Electronic Deliverable Format (EDF). Have all water quality results from the past 12 months been uploaded to Geotracker as a searchable pdf copy as described in the MRP? Yes \Box No \Box Note: Some water quality laboratories can upload the water quality results to Geotracker for you. Instructions for setting up an account and the process of claiming a site, formatting and uploading data, and other technical information can be found under the "ESI Overview" and "Getting Started" sections at: http://www.swrcb.ca.gov/water_issues/programs/ust/electronic_submittal/ **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. 1. Erosion Control: Please describe all other measures not previously described, that prevent and minimize the occurrence of erosion and discharge of manure, feed, waste, and soil particles from the dairy to surface water or groundwaters: 2. Nuisance Control: Please describe all 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:

- 3. Groundwater Protection: Describe measures taken to protect groundwater from contamination at wellheads, sinkholes, and tile drains:
- 4. Is manure and nutrient application to pastures or croplands performed at rates which are reasonable for the crop, soil, climate, special local situations, management system, and type of manure?
- 5. By what date this year is nutrient application to pastures and cropland complete?
- 6. How are fall and winter nutrient application prevented from entering surface waters or percolating to groundwater? Example: Include distance applied from creeks and drainages, avoidance of standing water such as in wetlands, application during dry weather, application to vegetated areas, etc.:
- 7. 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:
- 8. Do the manure ponds have sufficient storage capacity prior to the rainy season as required in the GWDR? Describe the method used to make this determination:
- Please describe the measures taken to avoid surface runoff of manure constituents from the dairy's land application areas:

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

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

H. Nutrient Management Planning for Dairies that Apply Nutrients to Pastures or Cropland

Has a Nutrient Management Plan (NMP per MRP-Appendix 2) been prepared or revised for the dairy? Yes Yes No

If yes, what is the year the NMP is or will be finalized and who completed the NMP? Year of NMP: _____

Technical Service Provider/Approving Agency: _____

For facilities with a prepared Nutrient Management Plan (NMP): How has the dairy NMP been implemented within the past year?

Describe crop rotation practiced within the past year and how you accounted for nutrient application at agronomic rates:

Is the dairy in compliance with NMP requirements for soil sampling? Yes: _____ No: _____ If so, do the results show that the is dairy applying nutrients at agronomic rates? Yes: _____ No: ____

Please add any comments regarding soil sampling results such as plans to adjust nutrient application rates at specific locations to meet agronomic rates:

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 \Box No \Box

Please explain: ____

Describe crop rotation practiced within the past year and how you accounted for nutrient application at agronomic rates:

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Do you plan on obtaining an NMP for your dairy and if so, what date do you expect completion?

I. Compost

GWDR Condition B.5. on pages 18-19, encourages composting at dairies however, discharges of waste to surface waters and groundwater are prohibited. Does the dairy conduct composting operations? Yes:_____ No: _____

If yes, then please explain how the composting practice is managed to avoid discharges to surface waters and groundwater:

Is the composting practice in accordance with State Water Board Division of Water Quality DWQ 2015-0121 or subsequent Order(s)?

J. Tribal Cultural Resources Protection

The Tribal Cultural Resources Mitigation Program (GWDR - Attachment E) is required. Dairy operators must familiarize themselves with this information and follow the steps indicated if archaeological resources are discovered. Is the dairy compliant with the TCRMP? Yes: _____ No: _____

K. Water Conservation

The GWDR encourages water conservation. The Water Quality Plan, section J, discusses the importance of water conservation. Please describe the water conservation measures practiced within the past year on the dairy including pastures and cropland that help to conserve water. (Examples: vegetate bare soil areas, use water efficiently, repair leaks in a timely manner, utilize rain gutters on buildings and discharge the clean stormwater to vegetated areas, infiltrate clean stormwater to recharge groundwater, use recycled water, dry scrape manured areas, catch rainwater in basins for re-use, practice no-till on pastures and croplands, reduce freshwater use where possible, etc.) :

L. Riparian Management Planning:

The Riparian Management Plan (RMP) is located at the end of the Water Quality Plan-Appendix 1. Does the owned and leased dairy property, including the production area, pastures, and cropland, contain areas along creeks or small drainages that flow between storm events? Yes: _____ No: _____

	If yes, please specify the actions within the past year that are being taken riparian vegetation growing along streams and other watercourses:	to protect this	area including
	The RMP is to be submitted to the Regional Water Board by November 30), 2020.	
	Is the RMP for the dairy completed and submitted? Yes: No: _	N/A:	
	Does the dairy comply with the performance measures of the RMP? Yes:	No:	N/A:
	If not, what is the plan to comply with the RMP including timing of improve	ments?	
Μ.	Certification of Goat, Sheep, and Water Buffalo Dairies:		
	GWDR Finding 8 (page 1) indicates that existing goat, sheep, and water their facility is structurally and operationally in compliance with all terms a within two years of submittal of the Notice of Intent (Attachment A). It is e water buffalo dairies have installed adequate water quality protection practice GWDR with this allotted time period. Does your goat, sheep, or water requirement? Yes: No: Please describe improvements made to meet the GWDR requirements:	nd conditions expected that g ctices to meet	of the GWDR joat, sheep, and the requirements of
N.	Summary		
N.	Summary Has all required monitoring been conducted?	Yes 🗌	No 🗌
N.	•	Yes 🗌 Yes 🗍	No 🗌 No 🗍
N.	Has all required monitoring been conducted?		
N.	Has all required monitoring been conducted? Have all required reports been submitted to the Regional Water Board?		
N.	Has all required monitoring been conducted? Have all required reports been submitted to the Regional Water Board? Based on your visual inspections and water quality monitoring results,	Yes 🗌 Yes 🗌	No 🗌
N.	Has all required monitoring been conducted? Have all required reports been submitted to the Regional Water Board? Based on your visual inspections and water quality monitoring results, did your facility operate in compliance with the GWDR?	Yes 🗌 Yes 🗌	No 🗌

O. 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

Appx 3 Annual Report Dairy GWDR