## **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). Facility Information Facility: \_\_\_\_\_ Address: \_\_\_ No. Street City Zip Operator: \_\_\_\_\_ Address: \_\_\_\_ Phone: (\_\_\_\_) \_\_\_\_ E-mail: \_\_\_\_ Property owner: Address: Phone: ( ) E-mail: **Dairy Animal Population: Present Number of Dairy Animals** Other Dairy Animals if applicable: (check one) Water Buffalo \_\_ Sheep Dairy cows Water Buffalo Goats Sheep Other Dairy Animal (please specify): Goats 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).

1. In the previous year, have changes been made to the dairy Water Quality Plan? Yes: No:

manure, compost operations, etc.:

If ves. 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

2.	2. 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?  The problem resolved?							ear?
3.					ny noncompliance with this GWDR on your ithin 24 hours of becoming aware of its occ			
4.	Have all daily, seasonal, a	ensure			on visual inspections of the dairy been perfeing operated and maintained in compliance			ted
yea	er to comply with conditions	of the	GWDF	₹:	o facility conditions and actions taken within ne facility covered by this report)	n the p	reviou	S
A.	Prevent animals from enter ("Surface water" means waters				within confinement areas: by tributary to a water of the United States)			
	e barriers used to keep mals out of surface waters?	Yes	□ No	□ N/A	Are watercourse crossings designed and maintained to protect water quality?	Yes	□ No	□ N/A
	e feed sites located away m surface waters?	Yes	□ No	□ N/A				
	scription of deficiencies (if any				ed areas (including heavily used pastures):			
Do	buildings have effective				Is stormwater that contacts manured areas			
gut	ters?	Yes	No	N/A	and feed storage areas contained in holding ponds?	Yes	No	N/A
	guttered water diverted				Is clean stormwater runoff managed			
aw	ay from manured areas?	Yes	No	N/A	separate from manure and process water?	Yes	No	N/A
	guttered water contained in ding ponds?	☐ Yes	□ No	N/A	Are diversion ditches functional and properly maintained to protect surface waters?	☐ Yes	□ No	□ N/A
De	scription of Deficiencies (if an	y) or Ad	Iditional	l Informa	ation:			

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	/A Material to be contained		No	N/A	
All manure solids								
Runoff from solids storage areas				Waste milk				
Runoff from corrals that contain manure				Veterinary waste				
Milk barn wash water				Hazardous wastes (pesticides, etc.)				
Runoff and leachate from silage				Trazardous wastes (positiolaes, etc.)	_	_	_	
Description of deficiencies (if any) or add				<u> </u>				
				_				
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?		٥	٥	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 Ad	ditional	Informa	ation:					

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			_

	rameter	<u>Units</u>	
Ele	ectrical Conductivity (EC)	Mmhos	
To	tal Ammonia Nitrogen (NH <sub>3</sub> +	NH , , ) mg/L	
	sual observation of stream cha	anges: Write observation such as stream was clear, op- bid. Alternatively, turbidity measurements may be used.	
E.	coli bacteria	cfu/100 mL	
En	terococci bacteria	cfu/100 mL	
		freshwaters. Enterococci is only to be tested in waters wore than 5 percent of the time in a calendar year.	where salinity is
th Sa	en you are responsible for indivi	ing: If you are not identified as participating in a group dual surface water sampling as required in GWDR-Attactor directly following each of 3 major storm events, after a nall be at least 14 days apart.	chment D: MRP.
'		g results from November 1 through October 31 for the possibilities and location of each	
i.	season that occurred prior to a Also, attach a map of the same		

## 2. Groundwater Sampling

Yes: No:

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.

c. Has all surface water sampling been conducted and submitted in accordance with the GWDR and MRP?

If not, please explain:

tal Coliform Bacteria  s all ground water quality sampling No  oundwater results are required to the MRP. Groundwater monitoring mat (EDF). Have all water quality earchable pdf copy as described the: Some water quality laboratoric tructions for setting up an account other technical information can http://www.swrcb.ca.gov/water is anagement Practices	ies can upload the water quality results to Geotracker for you.  nt and the process of claiming a site, formatting and uploading data be found under the "ESI Overview" and "Getting Started" sections ssues/programs/ust/electronic submittal/
tal Dissolved Solids (TDS)  ly domestic supply wells at the destal Coliform Bacteria  s all ground water quality samplings No   oundwater results are required to the MRP. Groundwater monitoring mat (EDF). Have all water quality earchable pdf copy as described the: Some water quality laboratoric tructions for setting up an account other technical information can http://www.swrcb.ca.gov/water is an agement Practices	Idairy need to be tested for total coliform bacteria:  IPN/100 mL  Ing been completed as described in the MRP?  In be uploaded to Geotracker as a searchable pdf copy as described in g data shall be uploaded to Geotracker in an Electronic Deliverable ity results from the past 12 months been uploaded to Geotracker as I in the MRP? Yes   In the MRP? Yes   No   In the process of claiming a site, formatting and uploading data be found under the "ESI Overview" and "Getting Started" sections is sues/programs/ust/electronic submittal/  In the matter of the process of claiming a site, formatting and uploading data be found under the "ESI Overview" and "Getting Started" sections is sues/programs/ust/electronic submittal/
ly domestic supply wells at the detail Coliform Bacteria Most all ground water quality samplings No Domestic No Domestic No Domestic No Domestic No No Domestic No. Have all water quality earchable pdf copy as described the Some water quality laboratoric ructions for setting up an account other technical information can http://www.swrcb.ca.gov/water is an agement Practices	lairy need to be tested for total coliform bacteria:  IPN/100 mL  Ing been completed as described in the MRP?  In be uploaded to Geotracker as a searchable pdf copy as described g data shall be uploaded to Geotracker in an Electronic Deliverable ity results from the past 12 months been uploaded to Geotracker as I in the MRP? Yes   No   ies can upload the water quality results to Geotracker for you.  Int and the process of claiming a site, formatting and uploading data be found under the "ESI Overview" and "Getting Started" sections issues/programs/ust/electronic submittal/
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_	
section please describe the sens	
	port. Please attach additional sheets if more space is needed to
	Il other measures not previously described, that prevent and and discharge of manure, feed, waste, and soil particles from the ters:
eding mosquitoes, damage from ids, embankment settling, erosio	e all measures taken to prevent nuisances. Include odors, in burrowing animals, damage from equipment during removal of on seepage, excess weeds, algae, and other vegetation that could be proper functioning of your facility and/or degrade water quality:
	isance Control: Please describe eeding mosquitoes, damage from ids, embankment settling, erosic

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:
9.	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:

1	<ol> <li>Describe the measures taken to minimize infiltration of manure-laden water into underlying soils within manured areas, corrals, pens, and animal housing areas:</li> </ol>
Nι	strient Management Planning for Dairies that Apply Nutrients to Pastures or Cropland
	as a Nutrient Management Plan (NMP per MRP-Appendix 2) been prepared or revised for the dairy? es $\square$ $\;$ No $\square$
If Y	yes, what is the year the NMP is or will be finalized and who completed the NMP? ear of NMP: echnical Service Provider/Approving Agency:
_	ecnnical Service Provider/Approving Agency:
	or facilities with a prepared Nutrient Management Plan (NMP): ow has the dairy NMP been implemented within the past year?
	escribe crop rotation practiced within the past year and how you accounted for nutrient application at gronomic rates:
Is	the dairy in compliance with NMP requirements for soil sampling? Yes: No: so, do the results show that the is dairy applying nutrients at agronomic rates? Yes: No:
	lease add any comments regarding soil sampling results such as plans to adjust nutrient application rat specific locations to meet agronomic rates:
_	or facilities without a prepared Nutrient Management Dlan.
	or facilities without a prepared Nutrient Management Plan:
CI	the past year, was manure and process water generated at your facility applied to pastures, fields or op lands at rates that are agronomically sound for the crop, soil, climate, special local situations, anagement system, and manure/wastewater characteristics? Yes   No
D	lease explain:

	Describe crop rotation practiced within the past year and how you accounted for nutrient application at agronomic rates:
	Do you plan on obtaining an NMP for your dairy and if so, what date do you expect completion?
ı.	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:

The RMP is to be submitted to the Regional Water Board by November 30	0, 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	ements?	
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 exact the GWDR with this allotted time period. Does your goat, sheep, or water	and conditions of expected that good tices to meet to the conditions and the conditions are conditions and the conditions are conditional conditions.	of the GWDR oat, sheep, and the requirement
requirement? Yes: No: Please describe improvements made to meet the GWDR requirements:	i bullalo dali y l	meet this
requirement? Yes: No: Please describe improvements made to meet the GWDR requirements:  Summary	i bullalo dali y l	meet this
Please describe improvements made to meet the GWDR requirements:	Yes 🗆	
Please describe improvements made to meet the GWDR requirements:  Summary	Yes 🗆	No 🗆
Please describe improvements made to meet the GWDR requirements:  Summary  Has all required monitoring been conducted?	Yes 🗆	No 🗆
Please describe improvements made to meet the GWDR requirements:  Summary  Has all required monitoring been conducted?  Have all required reports been submitted to the Regional Water Board?	Yes 🗆	No 🗆
Please describe improvements made to meet the GWDR requirements:  Summary  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  Yes  Yes	No 🗆 No 🗔
Summary  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  Yes  Yes	No 🗆 No 🗔

O. Certification of Report Preparer					
submitted in this report and all at responsible for obtaining the info	I have personally examined and am famitachments and that, based on my inquiry rmation, I believe that the information is to enalties for submitting false information, i	of those individuals immediately rue accurate and complete. I am			
Printed Name		Title			
Signature		Month / day / year			