	DAIRY FACILITY INFORMATION									
A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:	Dairy of Testing									
Physical Address of dairy:										
Number and Street		City	County	Zip Code						
Street and nearest cross street (if no address):										
Date facility was originally placed in operation: 5/12/2022										
Regional Water Quality Control Board Basin Plan designation:										
County Assessor Parcel Number(s) for dairy facility:										
	No Pard	els entered.								

B. OPERATORS

Spencer Nylund										
Operator name:	Spencer Nylund		Telephone no.:	(209) 634-7520						
P.O. Box 1029		Hilmar	CA	95324						
Mailing Address Number	and Street	City	State	Zip Code						
This operator is responsible for paying permit fees.										

Dairy of Testing | |, CA | null | null



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C. OWNERS

Spencer Nylund										
Operator name:	Spencer Nylund		Telephone no.:	(209) 634-7520						
P.O. Box 1029		Hilmar	CA	95324						
Mailing Address Number	er and Street	City	State	Zip Code						
This owner is responsible for paying permit fees.										

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	0	0	0	0
Number under roof	0	0	0	0	0	0
Maximum number	0	0	0	0	0	0
Average number	0	0	0	0	0	0
Avg live weight (lbs)	0	0	0	0		

Predominant milk cow breed:							
Average milk production: 0	pounds per cow per	day					
B. MANURE GENERATED:							
Total manure excreted by the herd:	0	tons per reporting per	iod				
Total nitrogen from manure:	0	lbs per reporting period	d After ammonia losse	es (30%	6 loss applied):	0.00	lbs per reporting period
Total phosphorus from manure:	lbs per reporting perio	s per reporting period					
Total potassium from manure:	0	lbs per reporting perio	d				
Total salt from manure:	0	lbs per reporting perio	d				
C. PROCESS WASTEWATER GENERAT	ED:						
Process wastewater generated:	5,700,000	9	gallons		4,860,000	gallons applied	
Total nitrogen generated:	21,867.57	1	lbs	+	840,000	gallons exported	
Total phosphorus generated: 1,364.75					0	gallons imported	
Total potassium generated: 23,700.13							
Total salt generated:	382.344.5	3	lbs	=	5,700,000	gallons generated	

D. FRESH WATER SOURCES

Source Description	Туре
Canal	Surface water
Well 5	Ground water

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Well 6 Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

Source Description

Tile Drain 1

F. NUTRIENT IMPORTS

Date	Material Type/ Description	Quantity (tons)	Reporting basis	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
5/9/2020	Dry manure: Separator solids/ UN32	41.61	dry-weight	56.00	19,400.00	5,300.00	21,800.00	0.00	0.00

No process wastewater nutrient imports entered.

Date	Material Type/ Description	Quantity	Reporting basis	Moisture (%)	N (%)	P (%)	K (%)	Salt (%)
5/9/2020	Commercial fertilizer/ Other: Solid commercial fertilizer/ UN32	41.61 tons	dry-weight	0.00	32.00	0.00	0.00	0.00

Material Type	N (lbs)	P (lbs)	K (lbs)	Salt (lbs)
Commercial fertilizer / Other	26,603.77	0.00	0.00	0.00
Dry Manure	710.37	194.07	798.25	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total Import for all materials	27,314.14	194.07	798.25	0.00

G. NUTRIENT EXPORTS

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
3/5/2020	Dry manure: Corral solids	1,898.00 tons	dry-weight	56.00		19,400.00	5,280.00	21,800.00		0.00
5/8/2020	Dry manure: Corral solids	1,839.00 tons	dry-weight	35.60		24,000.00	10,000.00	48,000.00		0.00

Date	Material type	Quantity	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Ammonia-N (mg/L)	Nitrate-N (mg/L)	P (mg/L)	K (mg/L)	EC (µmhos/cm)	TDS (mg/L)
1/25/2020	Process wastewater	420,000.00 gals	484.00	0	0	0	71.90	997.00	8,000.00	8800
2/12/2020	Process wastewater	420,000.00 gals	484.00	0	0	0	71.90	997.00	8,000.00	8800

Material Type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
---------------	---------------	---------------	---------------	------------------

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Dry Manure	89,249.82	32,505.19	150,105.57	0.00
Process wastewater	3,392.74	504.00	6,988.77	61,686.24
Total exports for all materials	92,642.57	33,009.19	157,094.34	61,686.24

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field Name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel Number
Field 1	22	22	2	process wastewater	
Field 2	17	17	2	process wastewater	
Field 17	290	290	0	manure	
Totals for areas that were used for applications	329	329	4		
Totals for areas that were not used for applications	0	0	0		
Land application area totals	329	329	4		

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B. CROPS AND HARVETS:

eld name: F	ield 1									
11/1/2019 Oats	s silage-soft o	lough								
Crop: Oats	silage-soft do	ıgh				Acres plant	ed:	22 Plant dat	e: 11/1/2	2019
Harvest date	Yield	Rep	porting Basis	Density (lbs/cu ft) Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
4/20/2020	391.00	tons As I	Is		72.20%	5,000.00	1,390	.00 13,600.00		12.50%
		Yield (ton	ns/acre) To	otal N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/a	ncre) Tota	al Salt (lbs/acre)		
Anticipated harv	est content		16.00	160.00	25.6	0	132.80	0.00		
Total actual har	vest content		17.77	177.73	49.4	1	483.42	1,235.20		
						-	-			
- /- /										
5/7/2020 Corn	silage									
	silage silage					Acres plant	ed:	22 Plant dat	e: 5/7/20	020
	-	Rep	porting Basis	Density (lbs/cu ft) Moisture (%)	Acres plant N (mg/kg)	ed: P (mg/kg)	22 Plant dat	e: 5/7/20 Salt (mg/kg)	120 TFS (%)
Crop: Corn	silage			Density (lbs/cu ft	Moisture (%) 65.00%			K (mg/kg)		
Crop: Corn	silage		ls	Density (lbs/cu ft		N (mg/kg)	P (mg/kg)	K (mg/kg)		TFS (%)
Crop: Corn	silage Yield 569.00	tons As I	ls		65.00%	N (mg/kg) 6,640.00 Total K (lbs/a	P (mg/kg)	K (mg/kg)		TFS (%)

Field 2												
Field nam	ne: Fie	eld 2										
11/1/201	19 Oats	silage-soft d	ough									
Crop:	Oats s	ilage-soft dou	gh					Acres plant	ed:	17 Plant dat	e: 11/1/2	.019
Harvest of	date	Yield		Reporting Basi	s Density (lbs/cu f	t)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
4/20/202	20	275.00 t	ons	As Is			66.80%	5,970.00	930.00	9,300.00		8.28%
			Yield	(tons/acre)	Total N (lbs/acre)	Tot	otal P (lbs/acre)	Total K (lbs/a	acre) Total S	Salt (lbs/acre)		

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Anticipated harvest content	16.00	160.00	25.60	132.80	0.00
Total actual harvest content	16.18	193.15	30.09	300.88	889.37

5/7/2020 Corn silage

Crop: Corn silage Acres planted: 17 Plant date: 5/7/2020

Harvest date	Yield	Reporting Basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
8/29/2020	440.00 tons	As Is		71.00%	5,450.00	1,040.00	12,200.00		9.52%

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	25.88	282.12	53.84	631.53	1,429.12

Field 17

Field name: Field 17

6/1/2020 Corn silage

Crop: Corn silage Acres planted: 290 Plant date: 6/1/2020

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

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Nutrient Budget

A. LAND APPLICATIONS

Field name:	Field 1						
Crop:	Oats silage-soft dough					Plant date:	11/1/2019
Application date	Application method		Precipitation 24 hours prio	r Pred	cipitation during applicat	tion Precipit	ation 24 hours following
10/10/2019	Surface (irragation)		No Precipitation	No F	Precipitation	No Pred	cipitation
Source description	on	Material Type	N (lbs/acre)	P (lbs/acre	e) K (lbs/acre)	Salt (lbs/acre)	Amount
Field Sample		Existing soil nutrient content	600.00	240.0	0 600.00	144.00	
Plowdown Ex1		250.00	250.0	0 250.00	250.00		
Canal		Freshwater	0.00	0.0	0.00	322.61	2,430,000.00 gals
Application even	totals		850.00	490.0	0 850.00	716.61	
11/20/2019	Surface (irragation)		No Precipitation	No F	Precipitation	No Pred	cipitation
Source description	on	Material Type	N (lbs/acre)	P (lbs/acre	e) K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater		Process wastewater	66.09	9.8	2 136.14	1,201.68	360,000.00 gals
Well 6		Freshwater	14.31	0.0	0.00	0.00	756,000.00 gals
Application event	totals		80.40	9.8	2 136.14	1,201.68	
1/10/2020	Surface (irragation)	Surface (irragation) No I		No F	Precipitation	No Pred	cipitation
Source description	n	Material Type	N (lbs/acre)	P (lbs/acre	e) K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater		Process wastewater	78.06	5.3	2 113.75	799.75	420,000.00 gals
Application event	totals		78.06	5.3	2 113.75	799.75	

eld 1 - 5/7/2020: Corn silage									
ield name: Field 1									
Corn silage Plant date: 5/7/2020									
Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following						
77/2020 Sidedress No Precipitation No Precipitation No Precipitation									
	Field 1 Corn silage Application method	Field 1 Corn silage Application method Precipitation 24 hours prior	Field 1 Corn silage Application method Precipitation 24 hours prior Precipitation during application						

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Source descrip	tion	Material Type	N ((lbs/acre)	P (lbs,	/acre)	K (lbs/acre)	Salt (lb	s/acre)	Amount
Dry manure: Se	parator solids	Dry manure: Separator solid:	s	0.43		0.12	0.48		0.00	
Application eve	nt totals			0.43		0.12	0.48		0.00	
6/4/2020	Surface (irragation)		No Precipitation	Precipitation		No Prec	ipitation		No Preci	pitation
Source descrip	urce description Material Type		N (N (lbs/acre) P (lbs/acre)		/acre)	K (lbs/acre)	Salt (lb	s/acre)	Amount
Canal	nal Freshwater			0.00		0.00	0.00		365.63	2,754,000.00 gals
Application eve	lication event totals			0.00		0.00	0.00		365.63	
6/14/2020	20 Surface (irragation) No		No Precipitation	ecipitation		No Precipitation			No Preci	pitation
Source descrip	tion	Material Type	N (N (lbs/acre)		/acre)	K (lbs/acre)	Salt (lb	s/acre)	Amount
Canal		Freshwater		0.00		0.00	0.00		258.09	1,944,000.00 gals
Application eve	nt totals			0.00		0.00	0.00		258.09	
6/24/2020	Surface (irragation)		No Precipitation		No Precipita		cipitation		No Preci	pitation
Source descrip	tion	Material Type	N ((lbs/acre)	P (lbs,	/acre)	K (lbs/acre)	Salt (lb	s/acre)	Amount
Wastewater		Process wastewater		94.48		2.16	45.62	1	,963.20	570,000.00 gals
Application eve	nt totals			94.48		2.16	45.62	1	,963.20	
7/20/2020	//20/2020 Surface (irragation)		No Precipitation	n	No Pre		No Precipitation		No Preci	pitation
Source descrip	Source description Material Type		N ((lbs/acre)	P (lbs,	/acre)	K (lbs/acre)	Salt (lb	s/acre)	Amount
Wastewater		Process wastewater		149.19		3.41	72.03	3	,099.79	900,000.00 gals
Application event totals			149.19		3.41	72.03	3	,099.79		

Field 2 - 11/1/2019:	Oats silage-soft dough									
Field name:	Field 2									
Crop:	Oats silage-soft dough	s silage-soft dough Plant date: 11/1/2019								
Application date	Application method		Precipitation	on 24 hours prid	or	Precipit	ation during applica	ition	Precipita	ation 24 hours following
10/9/2019	Surface (irragation)		No Precipit	tation		No Pred	cipitation		No Preci	pitation
Source description	on	Material Type		N (lbs/acre)	P (lbs	s/acre)	K (lbs/acre)	Salt (lb	os/acre)	Amount
Canal		Freshwater 0.00 0.00 0.00 742.03 4,318,920.00 gals								

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Application event	totals			0.00	0.00	0.00	742.0	3
1/12/2020	/12/2020 Surface (irragation)			cipitation	No Pre	ecipitation	No P	ecipitation
Source descriptio	Source description Material Type				P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre) Amount
Wastewater	Wastewater Process wastewater				9.84	210.29	1,478.5	4 600,000.00 gals
Well 5	Freshwater		24.28	0.00	0.00	5.0	1,020,000.00 gals	
Application event	totals			168.60	9.84	210.29	1,483.5	1
2/22/2020	Surface (irragation)	No Pr		cipitation	itation No Precip		No P	ecipitation
Source descriptio	Source description Material Type			N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre) Amount
Wastewater	Wastewater Process wastewater			86.59	5.90	126.18	887.1	2 360,000.00 gals
Application event	Application event totals			86.59	5.90	126.18	887.1	2

	=:									
Field name:	Field 2									
Crop:	Corn silage						Plant	date:	5/7/2020	
Application date	Application method		Precipitation 24 hours pri	or	Precipit	tation during applica	ntion F	Precipita	ation 24 hours following	
4/26/2020	Surface (irragation)		No Precipitation		No Pred	cipitation	1	No Precipitation		
Source description	on	Material Type	N (lbs/acre)	P (lbs/	/acre)	K (lbs/acre)	Salt (lbs/	/acre)	Amount	
Canal		Freshwater	0.00		0.00 0.00		890.66		5,184,000.00 gals	
Application event totals			0.00		0.00	0.00	8	90.66		
5/7/2020	Sidedress		No Precipitation		No Pred	cipitation	1	No Prec	ipitation	
Source description	on	Material Type	N (lbs/acre)	P (lbs,	/acre)	K (lbs/acre)	Salt (lbs/acre)		Amount	
Commercial		Commercial fertilizer/ Other: S commercial fertilizer	Solid 16.00		0.00	0.00		0.00		
Application event	totals		16.00		0.00	0.00		0.00		
6/4/2020	Surface (irragation)		No Precipitation		No Pred	cipitation	1	No Prec	ipitation	
Source description	on	N (lbs/acre)	P (lbs,	/acre)	K (lbs/acre)	Salt (lbs/acre)		Amount		
Wastewater		257.42	2 5.88		124.29	5.3	48.65	1,200,000.00 gals		

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Canal		Freshwater	0.00	0.00	0.00	1,113.32	6,480,000.00 gals
Application even	t totals		257.42	5.88	124.29	6,461.97	
8/6/2020	Surface (irragation)		No Precipitation	No Pre	ecipitation	No Pred	cipitation
Source description	on	Material Type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater		Process wastewater	96.53	2.21	46.61	2,005.75	450,000.00 gals
Application even	t totals		96.53	2.21	46.61	2,005.75	

Field name:	Field 17													
Crop:	Corn silage						Pla	nt date:	6/1/2020					
Application date	Application method	plication method Precipitation 24 hours prior Precipitation during application Precipitation 24 hours following												
5/6/2020	Broadcast/incorporate		No Precipitation		No Prec	cipitation		No Preci	pitation					
Source description	on	Material Type	N (lbs/acre)	P (lbs	s/acre)	K (lbs/acre)	Salt (lb	s/acre)	Amount					
Solid Manure		Corral solids	194.80		53.02	218.90		0.00	3,309.00 tons					
Application event	totals		194.80		53.02	218.90		0.00						

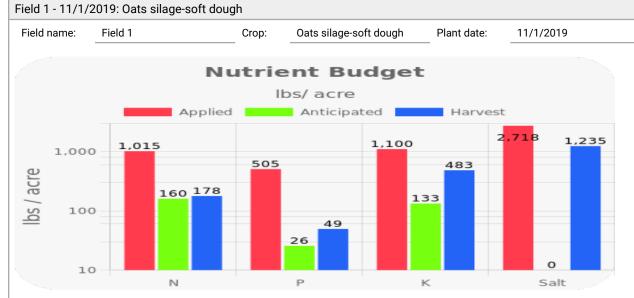
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Reporting peroid 1/1/2020 to 12/31/2020.

B. NUTRIENT BUDGET



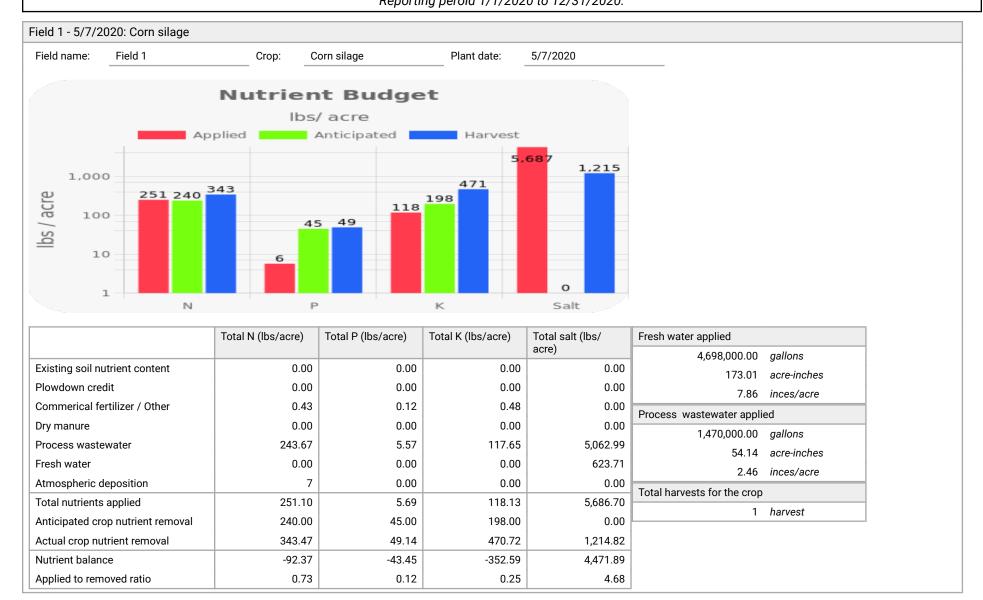
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/ acre)
Existing soil nutrient content	600.00	240.00	600.00	144.00
Plowdown credit	250.00	250.00	250.00	250.00
Commerical fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	144.16	15.14	249.89	2,001.43
Fresh water	14.31	0.00	0.00	322.61
Atmospheric deposition	7	0.00	0.00	0.00
Total nutrients applied	1,015.47	505.14	1,099.89	2,718.05
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00
Actual crop nutrient removal	177.73	49.41	483.42	1,235.20
Nutrient balance	837.74	455.73	616.48	1,482.84
Applied to removed ratio	5.71	10.22	2.28	2.20

Fresh water applied	
3,186,000.00	gallons
117.33	acre-inches
5.33	inces/acre
Process wastewater applied	ed
780,000.00	gallons
28.72	acre-inches
1.31	inces/acre
Total harvests for the crop	
1	harvest

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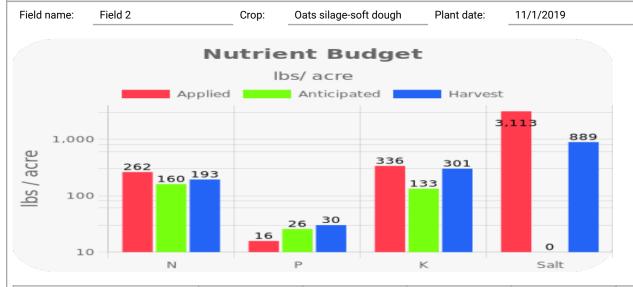
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Reporting peroid 1/1/2020 to 12/31/2020.

Field 2 - 11/1/2019: Oats silage-soft dough

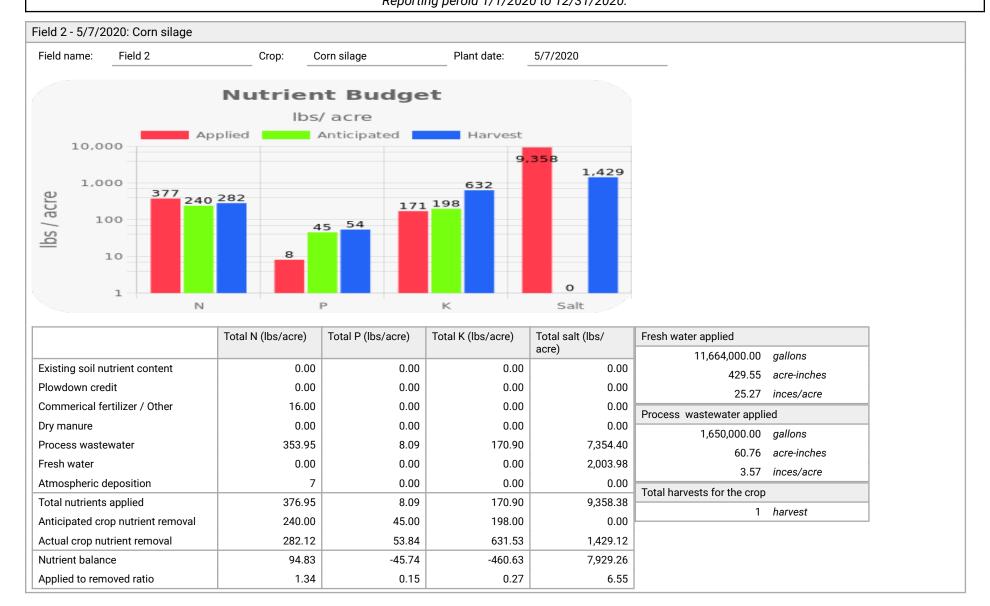


	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/	Fresh water applied	
				acre)	5,338,920.00	gallons
Existing soil nutrient content	0.00	0.00	0.00	0.00	196.61	acre-inches
Plowdown credit	0.00	0.00	0.00	0.00	11.57	inces/acre
Commerical fertilizer / Other	0.00	0.00	0.00	0.00	Process wastewater applie	ed
Dry manure	0.00	0.00	0.00	0.00	960.000.00	gallons
Process wastewater	230.91	15.74	336.47	2,365.66		
Fresh water	24.28	0.00	0.00	747.04	35.35	acre-inches
Atmospheric deposition	7	0.00	0.00	0.00	2.08	inces/acre
Total nutrients applied	262.20	15.74	336.47	3,112.70	Total harvests for the crop	
Anticipated crop nutrient removal	160.00	25.60	132.80	0.00	1	harvest
Actual crop nutrient removal	193.15	30.09	300.88	889.37		
Nutrient balance	69.05	-14.35	35.59	2,223.33		
Applied to removed ratio	1.36	0.52	1.12	3.50		

Dairy of Testing | |, CA | null | null



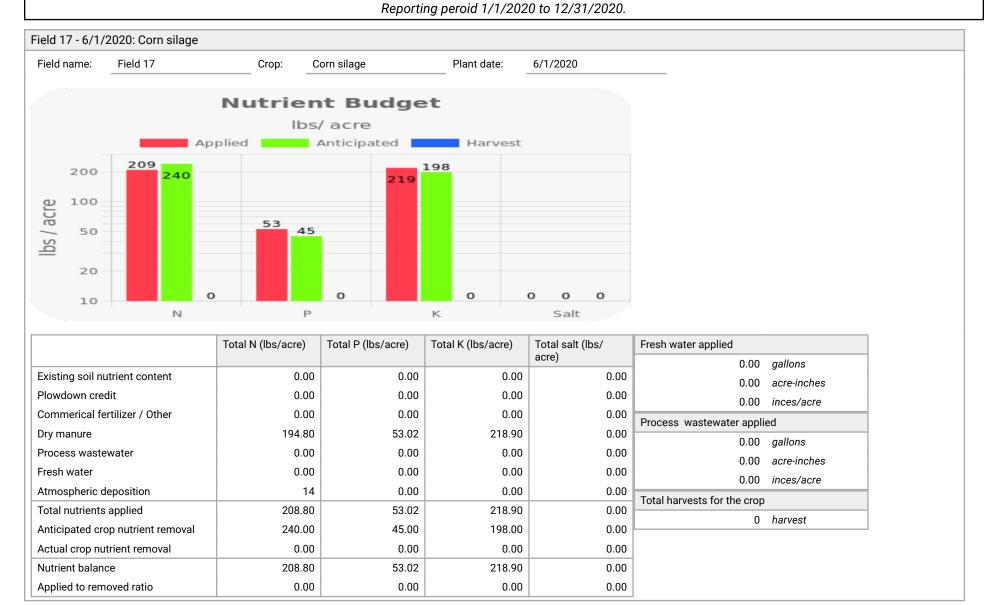
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Dairy of Testing | |, CA | null | null



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Reporting peroid 1/1/2020 to 12/31/2020.

Nutrient Analyses

A. Manure Analyses

Manure Ca	aetano									
Sample ar	nd source descriptio	n	Manure Caetano							
Sample da	ate: 3/9/2020	Material typ	e: Corral solids	Source of	analysis: Lab Ana	alysis	Method of Repo	rting: dry-weight		
Moisture:	56.00	%								
	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/ kg)	Total Salt (mg/ kg)	TFS(%)
Value	19,400.00	5,280.00	21,800.00	0.00	0.00	0.00	0.00	0.00		0.00
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

B. PROCESS WASTEWATER ANALYSES

Lagoon																
Sample and source description Lagoon																
Sample	date: 11/12	/2019	Material t	pe: Process wastewater				Source of a	analysis: L	ab Analysi	s		pH: 0.00			
	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/ cm)	TDS (mg/L)	
Value	484.00	336.00	0.00	0.00	71.90	997.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,000.00	8,800.0 0	
DL	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	10	

Lagoon																
Sample	and source des	cription		Lagoon												
Sample	date: 3/9/20)20	Material t	ype: Proce	e: Process wastewater Source of analysis: Lab Analysi						pH: 0.00					
	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/ cm)	TDS (mg/L)	
Value	490.00	263.00	0.00	0.00	33.40	714.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6,000.00	5,020.0 0	
DL	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	10	

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Lagoon

Sample and source description Lagoon

Sample date: 5/18/2020 Material type: Process wastewater Source of analysis: Lab Analysis pH: 0.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/ cm)	TDS (mg/L)
Value	437.00	374.00	0.00	0.00	9.99	211.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,310.00	9,080.0
DL	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	10

C. FRESH WATER ANALYSES

Canal

Canal Water

Sample description Canal Water

Sample date: 9/22/2020 Source of analysis: Lab Analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb, (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/ cm)	TDS (mg/L)
Value	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	259.00	350.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	10.00

Well 5

Irrigation Water

Sample description Irrigation Water

Sample date: 8/6/2020 Source of analysis: Lab Analysis

		Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb, (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/ cm)	TDS (mg/L)
Val	lue	48.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,660.00	10.00
DL		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	10.00

Well 6

Dairy of Testing | |, CA | null | null



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Irrigation Water

Sample description Irrigation Water

Sample date: 8/6/2020 Source of analysis: Lab Analysis

		Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb, (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/ cm)	TDS (mg/L)
l	Value	49.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,730.00	0.00
	DL	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	10.00

D. SOIL ANALYSES

Field 1

Soil Sample A

Sample and source description Soil Sample A

Sample date: 11/12/2019

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluable P (mg/ kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
ue	50.00	50.00	20.00	50.00	20.00	20.00	
	5.00	5.00	5.00	5.00	5.00	5.00	

Soil Sample B

Valu DL

Sample and source description Soil Sample B

Sample date: 11/12/2019 Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluable P (mg/ kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value	50.00	50.00	20.00	50.00	20.00	20.00	
DL	5.00	5.00	5.00	5.00	5.00	5.00	

Soil Sample C

Sample and source description Soil Sample C

Dairy of Testing | |, CA | null | null



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	Sample date:	11/12/2019	Source of analysis:	Lab Analysis			
	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluable P (mg/ kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value	50.00	50.00	20.00	50.00	20.00	20.00	
DL	5.00	5.00	5.00	5.00	5.00	5.00	

E. PLANT TISSUE ANALYSES

Field 1 - 11/1/2019: Oats silage-soft dough

Oats silage-soft dough

Sample and source description Oats silage-soft dough

Sample date: 5/5/2020 Source of analysis: Lab Analysis

Method of Reporting: As Is

Moisture: 72.20%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/ kg)	TFS (%)
Value	5,000.00	1,390.00	13,600.00		12.50
DL	100.00	100.00	100.00		0.01

Field 1 - 5/7/2020: Corn silage

Corn silage

Sample and source description Corn silage

Sample date: 8/28/2020 Source of analysis: Lab Analysis

s: Lab Analysis Method of Reporting: As Is

Moisture: 65.00%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/ kg)	TFS (%)
Value	6,640.00	950.00	9,100.00		6.71
DL	100.00	100.00	100.00		0.01

Dairy of Testing | |, CA | null | null



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Field 2 - 11/1/2019: Oats silage-soft dough

Oats silage-soft dough

Sample and source description Oats silage-soft dough

Sample date: 5/5/2020 Source of analysis: Lab Analysis Method of Reporting: As Is

Moisture: 66.80%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/ kg)	TFS (%)
Value	5,970.00	930.00	9,300.00		8.28
DL	100.00	100.00	100.00		0.01

Field 2 - 5/7/2020: Corn silage

Corn silage

Sample and source description Corn silage

Sample date: 8/28/2020 Source of analysis: Lab Analysis Method of Reporting: As Is

Moisture: 71.00%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/ kg)	TFS (%)
Value	5,450.00	1,040.00	12,200.00		9.52
DL	100.00	100.00	100.00		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

Dairy of Testing | |, CA | null | null



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Tile Drain 1

Q1

Sample description Q1

Sample date: 10/10/2019 Source of analysis: Lab Analysis

	NH4-N (mg/L)	Nitrate-N (mg/ L)	Total P (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	50.00	20.00	50.00	50.00	50
DL	5.00	5.00	5.00	5.00	5

Dairy of Testing | |, CA | null | null



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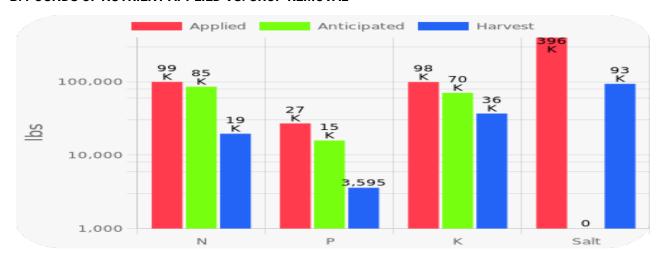
Reporting peroid 1/1/2020 to 12/31/2020.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	13,200.00	5,280.00	13,200.00	3,168.00
Plowdown credit	5,500.00	5,500.00	5,500.00	5,500.00
Commerical fertilizer /Other	281.46	2.64	10.56	0.00
Dry Manure	56,491.25	15,374.94	63,479.86	0.00
Process wastewater	18,474.83	860.74	16,711.36	320,658.29
Fresh water	727.64	0.00	0.00	67,586.34
Atmospheric deposition	4606	0	0	0
Total nutrients applied	99,281.17	27,018.32	98,901.78	396,912.63
Anticipated crop nutrient removal	85,200.00	15,803.40	70,321.20	0.00
Actual crop nutrient removal	19,545.82	3,594.78	36,842.00	93,314.75
Nutrient balance	79,735.35	23,423.54	62,059.78	303,597.88
Applied to removed ratio	5.08	7.52	2.68	4.25

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

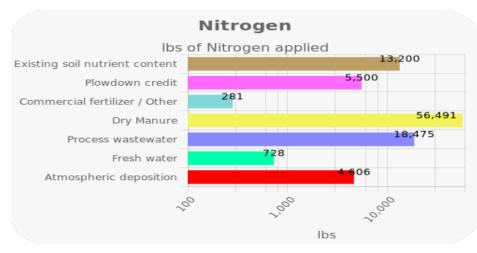


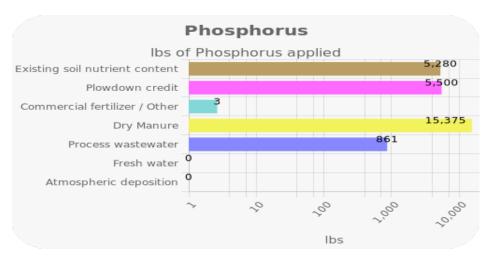
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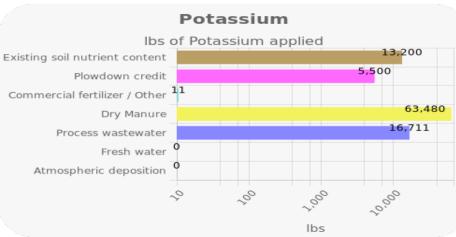


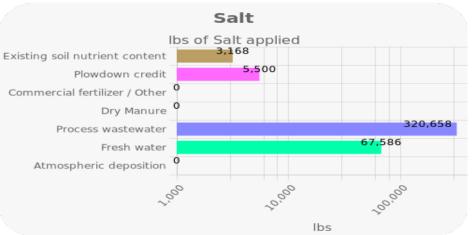
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C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









Dairy of Testing | |, CA | null | null



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Reporting peroid 1/1/2020 to 12/31/2020.

EXCEPTION REPORTING

A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES

The following is a summary of all manure and process wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan.

Discharge date	Location	Map reference #	Method of measuring discharge	Rationale for sample locations	Volume
10/10/2019 5:30 PM	Sumwhere	133769420	Eyeball	It was wet there.	1337 cubic yd

B. STORM WATER DISCHARGES

The following is a summary of all storm water discharges from the production area to surface water during the reporting period when not in accordance with the facility's Nutrient Management Plan.

Discharge date	Location	Map reference #	Method of measuring discharge	Rationale for sample locations	Duration (min)	Volume
10/10/2019 5:30 PM	Sumwhere	133769420	Eyeball	It was wet there.	20	1337 gals

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

The following is a summary of all discharges from the land application area to surface water that have occurred during the reporting period when not in accordance with the facility's Nutrient Management Plan.

Discharge date	Location	Map reference #	Method of measuring discharge	Rationale for sample locations	Source of discharge	Volume
10/10/2019 5:30 PM	Sumwhere	133769420	Eyeball	It was wet there.	Storm water	1337 gals

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period?

Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order?

Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order?

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period?

No

No

No

No

Dairy of Testing | |, CA | null | null



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ADDITIONAL NOTES

A. NOTES

No notes.

Dairy of Testing | |, CA | null | null



Reporting peroid 1/1/2020 to 12/31/2020.

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document 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.

SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
PRINT OR TYPE NAME	PRINT OR TYPE NAME
DATE	DATE

Dairy of Testing | |, CA | null | null



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Reporting peroid 1/1/2020 to 12/31/2020.

ATTACHMENTS

A. REQUIRED ATTACHMENTS

The following lists the required documents that should be attached to the Annual Report when submitted .

Annual Dairy Facility Assessment

Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDFA Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed.

Manure/Process Wastewater Tracking Manifests

Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler.

Written Agreements

Provide copies of all new or revised written agreements with each third party that receives solid manure or process wastewater from the Discharger for its own use.

Corrective Actions Documents

Provide records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements of the General Order. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.

Discharge Maps

Provide map(s) showing the discharge and sample locations for each discharge or release of waste to land areas (land application areas or otherwise) or surface water.

Discharge Lab Reports

Provide copies of laboratory analyses of all discharges (manure, process wastewater, or tailwater), surface water (upstream and downstream of a discharge), and storm water, including chain-of-custody forms and laboratory quality assurance/quality control results.

Groundwater Monitoring

Dischargers that monitor supply wells or subsurface (tile) drainage systems, or that have monitoring well systems must submit monitoring results as directed in the General Order, Groundwater Reporting Section starting on page MRP-13.

Storm Water Monitoring

Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

Dairy of Testing | |, CA | null | null



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