2023 ANNUAL REPORT

Prepared for

Pacheco Dairy Inc

1108 N. Plumas
Kerman CA 93630

Fresno County

January 01 through December 31, 2023

Prepared by:

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2023 ANNUAL REPORT

Pacheco Dairy Inc

Designated Person(s) Accountable for the Annual Report

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.

Dairy Owner

Signature: [signature]

Print: Brian Pacheco

Title: V.P

Date: 6-24-24

Dairy Operator

☒ Owner is also the Operator

Signature: _____

Print: _____

Title: _____

Date: _____

Facility Configuration Changes or Information about this Report

Nothing significant to report.

EST. 1968 PROVOST & PRITCHARD ENGINEERING GROUP

This report contains information required to be submitted as outlined by the Annual Reporting section of the Revised Monitoring and Reporting Program No. R5-2013-0122 (pages MRP-12 through 14) for this dairy facility. This report is due by July 01 following the reporting year.

I. General Section

1. Reporting Period

This Annual Monitoring Report contains the required information for the period of January 01 through December 31. Field data contains information pertaining to crop activities for all crops harvested within this period. This allows for continuity of the winter crops.

2. Herd Profile and Housing of the Dairy

The maximum and average number and type of animals, whether in open confinement or housed under roof is provided in Attachment A.

3. Estimated Amount of Total Manure, Process Water, and Nutrients Generated

The estimated total amount of manure and process wastewater generated for this period is provided in Attachment A.

4. Estimated Amount of Total Manure, Process Water, and Nutrients Applied

The estimated total amount of manure and process wastewater applied for this period is provided in Attachment A.

Individual applications to each field (Item 17, Record Keeping) is provided in Attachment E.

5. Ratio of Total Nitrogen Applied to Removed for Land Application Areas

The ratio of total nitrogen (inorganic & organic) applied to land application areas and the total nitrogen removed by crop harvest is provided in Attachment C.

Also provided is the Plant Available Nitrogen (PAN) ratio which includes the inorganic nitrogen and calculates how much of the organic nitrogen has become available to the plant through mineralization for that crop. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

6. Estimated Amount of Total Manure, Process Water, and Nutrients Transferred

The estimated total amount of manure and process wastewater transferred offsite for this period is provided in Attachment A.

Individual transfers are documented in Attachment G.

Transfer documentation can be found in Item 13, Manure Tracking Manifests.

7. Land Application Areas Without Manure Applications

The total number of acres and APN's for all land application areas that did not receive manure applications during the period is provided in Attachment B.

8. Land Application Areas With Manure Applications

The total number of acres and APN's for all land application areas that did receive manure applications during the period is provided in Attachment B.

9. Summary of Manure and Process Wastewater Discharges from the Production Area

A summary of all manure and 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 that occurred during the reporting period is provided.

☒ No discharges occurred during the reporting period.

☐ Yes, _____ discharges occurred. (See Attachment for detailed reports.)

10. Summary of Storm Water Discharges from the Production Area

A summary of all storm water discharges from the production areas to surface water during the reporting period is provided.

☒ No discharges occurred during the reporting period.

☐ Yes, _____ discharges occurred. (See Attachment for detailed reports.)

11. Summary of Discharges from the Land Application Area(s)

A summary of all discharges from land application area to surface water that have occurred during the reporting period is provided.

☒ No discharges occurred during the reporting period.

☐ Yes, _____ discharges occurred. (See Attachment for detailed reports.)

12. Nutrient Management Plan Update

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

☐ No.

☒ Yes.

12.2 Was the facility's NMP developed and certified by a certified nutrient management specialist?

☐ No.

☒ Yes.

13. Manure/Process Wastewater Tracking Manifests

Solid, slurry, or process wastewater that is sold, given away, or otherwise removed from the facility is documented on a manifest.

☐ No transfers occurred.

☒ Yes, attached are the manure and/or wastewater tracking manifests (See Attachment D's as titled by R5-2007-0035 Attachment D).

14. Written Agreements

Any process wastewater transferred to a third party must have a written agreement consistent with the Regional Board requirements. Any new agreements within the reporting period must be submitted.

☒ No wastewater agreements for this facility.

☐ There are _____ current wastewater agreements for this facility.

☐ There are _____ new agreements this reporting period and are attached.

15. Laboratory Analysis for Discharges

Laboratory analysis chain-of-custody forms and laboratory quality assurance/quality control documentation of all discharges described in Items #9, #10 and/or #11 are in the reports provided in Attachment J.

16. Tabulated Nutrient Analytical Data

Analytical data for samples of manure, process wastewater, irrigation water, soil and plant tissue are tabulated in Attachment H.

17. Record-Keeping Results

17.1 Response of Item B.2.b and B.3.l. Corrective Action records to correct deficiencies of inspections from the production and land application areas.

☒ No corrective actions during the reporting period.

☐ Yes, _____ corrective actions. (See Attachment K for detailed reports.)

17.2 Response of Item B.2.c. Records of production area overflow are in reports provided in Attachment J.

17.3 Response of Items B.3.a and b. See Attachment D for field acres, crops, planting dates, expected yields, and harvest information.

17.4 Response of Item B.3.c, d and j. See Attachment E for field applications of solid and liquid manure and the total amount of nutrients applied.

17.5 Response of Item B.3.e. See Attachment F for weather conditions before, during, and after manure applications.

II. Groundwater Reporting Section

1. Supply Wells and Tile Drainage System Monitoring

Water supply wells and/or subsurface (tile) drainage systems laboratory data including chain-of-custody and laboratory quality assurance/quality control documentation are attached.

2. Groundwater Monitoring Well Systems

☒ This facility does not have groundwater monitoring wells.

☐ This facility has groundwater monitoring wells required by the Regional Board and a certified report is attached.

☐ This facility has groundwater monitoring wells required by the County and the sampling requirements are attached.

☐ This facility has groundwater monitoring wells for research purposes. Data is exempt from this report.

III. Storm Water Reporting Section

1. Storm Water Discharges from Land Application Area

A summary of all storm water discharges from the land application areas during the reporting period is provided including laboratory analysis chain-of-custody forms and laboratory quality assurance/quality control documentation

☒ No discharges occurred during the reporting period.

☐ Yes, _____ discharges occurred. (See Attachment J for detailed reports.)

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment A

Herd Profile, Housing, and Estimated Total Manure Production

(Ref MRP Annual Report, General Section, Items 3 and 4)

Average Herd Profile and Housing Type

Type of Animals	Average Open Confinement	Average Housed Under Roof	Max Open Confinement	Max Housed Under Roof	Average Live Weight	Average Milk Production (lbs/cow/day)	Predominant Breed
Milk Cows	264	1,047	336	1,060	1,400	80.0	Holstein
Dry Cows	194	0	142	0	1,600		Holstein
Bred Heifers 15-24 Months	540	0	530	0	1,160		Holstein
Heifers 7-14 Months	581	0	590	0	685		Holstein
Calves 4-6 Months	293	0	290	0			Holstein
Calves 0-3 Months	212	0	220	0			Holstein
Other type of commercial animals							

Number of months the dairy was occupied: 12

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Estimated Total Amount of Manure and Nutrients Based On Average Herd Size

Type of Animals	Total Manure (lbs/day)	Nitrogen (lbs/day)	Phosphorus (lbs/day)	Potassium (lbs/day)
Milk Cows	24,733	1,260	214	279
Dry Cows	2,134	97	13	64
Bred Heifers 15-24 Months	5,184	205	30	
Heifers 7-14 Months	3,457	120	19	
Calves 4-6 Months	915	38	6	
Calves 0-3 Months	388	14	3	
Other type of commercial animals				
Total Pounds for report period:		632,850	103,770	125,145
Total tons for report period:	6,718			

Notes:

1. Equations and factors used in this table to determine total manure, nitrogen, phosphorus and potassium were obtained from ASAE D384.2 March 2005.

2. The quantities presented in this table include both solid and liquid excretions and do not account for any losses or division into solid or liquid portions.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Estimated Total Amount of Solid Manure and Nutrients Generated

Total Tons (As Is) of Manure Generated	Total lbs Generated				
	Total Dry Manure	Nitrogen	Phosphorus	Potassium	Salt
8,041	13,444,224	369,875	94,794	332,143	4,759,255

Estimated Total Amount of Process Wastewater and Nutrients Generated

Total Gallons of Process Wastewater Generated (1,000 gals.)	Total lbs Generated			
	Nitrogen	Phosphorus	Potassium	Salt
46,875	110,627	23,307	265,086	1,377,317

Notes:

1. Generated totals are the sum of what was applied to all land application areas and what was transferred to others. See Attachment E for individual field applications and Attachment G for individual transfers.

2. Dry tons are calculated by:
Dry Tons = Tons As-Is * (100-sample moisture %) / 100

3. Solid manure nutrient pounds applied are calculated by:
Total (N,P,K,Salts) lbs = (Dry Tons)*((%N,P,K,Ash)/100)*2,000

4. Process wastewater nutrient pounds applied are calculated by:
Total (P,K,Salts) lbs = (Gallons)*(P,K,TDS mg/l)*(8.337E-06)
Total (N) lbs = (Gallons)*(NO3-N+TKN mg/l)*(8.337E-06)

5. All solid manure applied is considered as the organic form of nitrogen. Inorganic and organic forms of nitrogen in process wastewater are calculated by:
Inorganic N lbs = (Gallons)*(NO3-N+NH4-N mg/l)*(8.337E-06)
Organic N lbs = (Gallons)*(TKN-NH4-N mg/l)*(8.337E-06)

6. Estimated total salt content in solid manure is determined by fixed solids (ash) and in process wastewater by total disolved solids. These are not direct relationships but are being used for estimation purposes. Ash can vary widely in a sample if corral dirt becomes part of the sample. Also, ash content is only required to be analyzed once every two years. The latest resultant value is applied to any subsequent applications.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Estimated Amount of Total Solid Manure And Nutrients Applied

Total Tons (As Is) of Manure Applied	Total lbs Applied				
	Manure	Nitrogen	Phosphorus	Potassium	Salt
740	335,368	6,271	1,174	2,750	118,720

Estimated Amount of Total Wastewater And Nutrients Applied

Total Gallons of Process Wastewater Applied (1,000 gals.)	Total lbs Applied			
	Nitrogen	Phosphorus	Potassium	Salts
46,875	110,627	23,307	265,086	1,377,317

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Estimated Amount of Total Solid Manure And Nutrients Transferred

Total Tons (As Is) of Manure Transferred	Total lbs Transferred				
	Total Manure	Nitrogen	Phosphorus	Potassium	Salt
7,301	13,108,856	363,604	93,620	329,393	4,640,535

Estimated Amount of Total Wastewater And Nutrients Transferred

Total Gallons Process Wastewater Transferred (1,000 gal)	Total lbs Transferred			
	Nitrogen	Phosphorus	Potassium	Salts
0	0	0	0	0

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment B

Land Application Area

(Ref MRP Annual Report, General Section, Items 7 and 8)

All APNs Associated With This Dairy

Total Number of APN Acres Associated with this Dairy: 871.11

APN	County	Acres	Land Use	APN Not Part of Land Application Area
015-080-36-S	Fresno	226.47	Cropland	
015-290-02-S	Fresno	38.78	Cropland	
015-290-05-S	Fresno	38.78	Cropland	
015-290-17	Fresno	122.24	Cropland	
015-290-20-S	Fresno	76.66	Cropland	
015-290-24-S	Fresno	29.21	Dairy Site/Cropland	
015-290-25-S	Fresno	23.50	Cropland	
015-290-27-S	Fresno	15.28	Cropland	
015-290-28-S	Fresno	38.78	Cropland	
015-290-31-S	Fresno	19.39	Cropland	
015-290-32-S	Fresno	19.39	Cropland	
015-290-33-S	Fresno	48.66	Dairy Site	
015-290-35-S	Fresno	38.49	Cropland	
015-290-37-S	Fresno	2.27	Residential	
015-290-38-S	Fresno	113.82	Cropland	
020-260-19	Fresno	3.00	Cropland	
020-260-71	Fresno	1.36	Residential	
020-260-91	Fresno	1.50	Residential	

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

020-260-92	Fresno	13.53	Cropland	

Total Land Application Areas For Manure And Wastewater

Total Land Application Area Acres: 757.0

Total Acres With Manure Applied For This Report: 503.0

Total Acres Without Manure Applied For This Report: 254.0

Field ID	Acres	APN	Type of Waste Applied For This Report	Field Not Part of Land Application Area
00	15.0	020-260-19 020-260-92	None	
01	4.0	015-290-24-S	None	
02	8.0	015-290-33-S	None	
03	38.0	015-290-38-S	Both	
04	38.0	015-290-38-S	Liquid	
05	36.0	015-290-38-S	Liquid	
06	38.0	015-290-35-S	Liquid	
07	39.0	015-290-02-S	Liquid	
08	19.0	015-290-31-S	Both	
09	39.0	015-290-05-S	None	
10	19.0	015-290-32-S	Both	
11	39.0	015-290-25-S 015-290-27-S	None	
17	68.0		None	

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field ID	Acres	APN	Type of Waste Applied For This Report	Field Not Part of Land Application Area
		015-290-17		
18	78.0	015-080-36-S	Liquid	
19	81.0	015-080-36-S	None	
20	123.0	015-080-36-S 015-290-17	Liquid	
23	75.0	015-290-20-S	Both	

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information	
Field ID	**00**
Crop	**Alfalfa**
Expected Yield (tons/ac)	8
Acres	15
Start Date	11/15/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	3
Lagoon Water	
Total Applied	
PAN Applied	
Irrigation Source	1
Atmospheric	14
Removal	
Planned Harvest	165
Actual Harvest	
Balance Ratio	
By Crop	
Total	0.09
PAN	0.11
By Field	
Total	0.09
PAN	0.11
By Farm	
Total	0.43
PAN	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information	
Field ID	**01**
Crop	**Alfalfa**
Expected Yield (tons/ac)	8
Acres	4
Start Date	11/15/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	
Lagoon Water	
Total Applied	
PAN Applied	1
Irrigation Source	19
Atmospheric	14
Removal	
Planned Harvest	165
Actual Harvest	
Balance Ratio	
By Crop	
Total	0.20
PAN	0.20
By Field	
Total	0.20
PAN	0.20
By Farm	
Total	0.43
PAN	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information	
Field ID	**02**
Crop	**Alfalfa**
Expected Yield (tons/ac)	8
Acres	8
Start Date	11/15/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	0
Lagoon Water	
Total Applied	
PAN Applied	3
Irrigation Source	12
Atmospheric	14
Removal	
Planned Harvest	165
Actual Harvest	
Balance Ratio	
By Crop	
Total	0.16
PAN	0.17
By Field	
Total	0.16
PAN	0.17
By Farm	
Total	0.43
PAN	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information		
Field ID	**03**	**03**
Crop	**Winter Forage**	**Corn Silage**
Expected Yield (tons/ac)	15	20
Acres	38	38
Start Date	11/29/2022	6/06/2023
Applications		
Commercial		
Solid Manure		
Total Applied		39
PAN Applied		8
Lagoon Water		
Total Applied	10	262
PAN Applied	19	152
Irrigation Source	0	34
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	209	317
Balance Ratio		
By Crop		
Total	0.08	1.08
PAN	0.13	0.64
By Field		
Total	0.68	0.68
PAN	0.43	0.43
By Farm		
Total	0.43	0.43
PAN	0.32	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information		
Field ID	**04**	**04**
Crop	**Triticale**	**Corn Silage**
Expected Yield (tons/ac)	15	20
Acres	38	38
Start Date	11/06/2022	5/30/2023
Applications		
Commercial		
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied	67	177
PAN Applied	27	125
Irrigation Source	4	21
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	179	281
Balance Ratio		
By Crop		
Total	0.43	0.73
PAN	0.21	0.55
By Field		
Total	0.61	0.61
PAN	0.41	0.41
By Farm		
Total	0.43	0.43
PAN	0.32	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information		
Field ID	**05**	**05**
Crop	**Winter Forage**	**Corn Silage**
Expected Yield (tons/ac)	15	20
Acres	36	36
Start Date	11/14/2022	6/13/2023
Applications		
Commercial		
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied	70	56
PAN Applied	22	52
Irrigation Source	0	29
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	282	273
Balance Ratio		
By Crop		
Total	0.27	0.34
PAN	0.10	0.32
By Field		
Total	0.31	0.31
PAN	0.21	0.21
By Farm		
Total	0.43	0.43
PAN	0.32	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information		
Field ID	**06**	**06**
Crop	**Triticale**	**Corn Silage**
Expected Yield (tons/ac)	15	20
Acres	38	38
Start Date	11/14/2022	6/09/2023
Applications		
Commercial		
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied	91	38
PAN Applied	48	63
Irrigation Source	1	9
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	299	258
Balance Ratio		
By Crop		
Total	0.33	0.21
PAN	0.19	0.30
By Field		
Total	0.28	0.28
PAN	0.24	0.24
By Farm		
Total	0.43	0.43
PAN	0.32	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information		
Field ID	**07**	**07**
Crop	**Triticale**	**Corn Silage**
Expected Yield (tons/ac)	15	20
Acres	39	39
Start Date	11/19/2022	6/03/2023
Applications		
Commercial		
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied	151	42
PAN Applied	62	78
Irrigation Source	1	14
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	200	248
Balance Ratio		
By Crop		
Total	0.80	0.25
PAN	0.35	0.40
By Field		
Total	0.50	0.50
PAN	0.38	0.38
By Farm		
Total	0.43	0.43
PAN	0.32	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information		
Field ID	**08**	**08**
Crop	**Winter Forage**	**Corn Silage**
Expected Yield (tons/ac)	15	20
Acres	19	19
Start Date	11/28/2022	6/09/2023
Applications		
Commercial		
Solid Manure		
Total Applied		42
PAN Applied	0	9
Lagoon Water		
Total Applied	41	56
PAN Applied	24	60
Irrigation Source	5	22
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	229	237
Balance Ratio		
By Crop		
Total	0.23	0.54
PAN	0.16	0.42
By Field		
Total	0.39	0.39
PAN	0.29	0.29
By Farm		
Total	0.43	0.43
PAN	0.32	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information	
Field ID	**09**
Crop	**Alfalfa**
Expected Yield (tons/ac)	8
Acres	39
Start Date	11/15/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	0
Lagoon Water	
Total Applied	
PAN Applied	6
Irrigation Source	19
Atmospheric	14
Removal	
Planned Harvest	165
Actual Harvest	
Balance Ratio	
By Crop	
Total	0.20
PAN	0.24
By Field	
Total	0.20
PAN	0.24
By Farm	
Total	0.43
PAN	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information		
Field ID	**10**	**10**
Crop	**Winter Forage**	**Corn Silage**
Expected Yield (tons/ac)	15	20
Acres	19	19
Start Date	11/28/2022	6/09/2023
Applications		
Commercial		
Solid Manure		
Total Applied		42
PAN Applied	1	10
Lagoon Water		
Total Applied	29	
PAN Applied	17	24
Irrigation Source	3	24
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	161	330
Balance Ratio		
By Crop		
Total	0.25	0.22
PAN	0.18	0.20
By Field		
Total	0.23	0.23
PAN	0.19	0.19
By Farm		
Total	0.43	0.43
PAN	0.32	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information	
Field ID	**11**
Crop	**Alfalfa**
Expected Yield (tons/ac)	8
Acres	39
Start Date	11/19/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	0
Lagoon Water	
Total Applied	
PAN Applied	7
Irrigation Source	23
Atmospheric	14
Removal	
Planned Harvest	165
Actual Harvest	
Balance Ratio	
By Crop	
Total	0.23
PAN	0.27
By Field	
Total	0.23
PAN	0.27
By Farm	
Total	0.43
PAN	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information		
Field ID	**17**	**17**
Crop	**Alfalfa**	**Corn Silage**
Expected Yield (tons/ac)	8	20
Acres	68	68
Start Date	11/15/2022	6/17/2023
Applications		
Commercial		
Solid Manure		
Total Applied		
PAN Applied	1	2
Lagoon Water		
Total Applied		
PAN Applied	5	10
Irrigation Source	4	20
Atmospheric	7	7
Removal		
Planned Harvest	165	
Actual Harvest		256
Balance Ratio		
By Crop		
Total	0.07	0.11
PAN	0.10	0.15
By Field		
Total	0.09	0.09
PAN	0.13	0.13
By Farm		
Total	0.43	0.43
PAN	0.32	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information		
Field ID	**18**	**18**
Crop	**Winter Forage**	**Corn Silage**
Expected Yield (tons/ac)	15	20
Acres	78	78
Start Date	11/23/2022	6/05/2023
Applications		
Commercial		
Solid Manure		
Total Applied		
PAN Applied	1	1
Lagoon Water		
Total Applied	83	117
PAN Applied	23	87
Irrigation Source	3	23
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	103	149
Balance Ratio		
By Crop		
Total	0.90	0.98
PAN	0.33	0.79
By Field		
Total	0.95	0.95
PAN	0.60	0.60
By Farm		
Total	0.43	0.43
PAN	0.32	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information	
Field ID	**19**
Crop	**Alfalfa**
Expected Yield (tons/ac)	8
Acres	81
Start Date	12/06/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	3
Lagoon Water	
Total Applied	
PAN Applied	6
Irrigation Source	23
Atmospheric	14
Removal	
Planned Harvest	165
Actual Harvest	
Balance Ratio	
By Crop	
Total	0.23
PAN	0.28
By Field	
Total	0.23
PAN	0.28
By Farm	
Total	0.43
PAN	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information		
Field ID	**20**	**20**
Crop	**Winter Forage**	**Corn Silage**
Expected Yield (tons/ac)	15	20
Acres	123	123
Start Date	11/21/2022	6/07/2023
Applications		
Commercial		
Solid Manure		
Total Applied		
PAN Applied	3	4
Lagoon Water		
Total Applied	65	150
PAN Applied	28	109
Irrigation Source	3	25
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	97	227
Balance Ratio		
By Crop		
Total	0.78	0.80
PAN	0.42	0.64
By Field		
Total	0.79	0.79
PAN	0.58	0.58
By Farm		
Total	0.43	0.43
PAN	0.32	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment C

Nitrogen Balance Ratio - Applied to Removed

(Nitrogen values presented as lbs/acre)

Field Information		
Field ID	**23**	**23**
Crop	**Triticale**	**Corn Silage**
Expected Yield (tons/ac)	15	20
Acres	75	75
Start Date	11/05/2022	6/02/2023
Applications		
Commercial		
Solid Manure		
Total Applied		42
PAN Applied	3	12
Lagoon Water		
Total Applied	126	237
PAN Applied	59	168
Irrigation Source	3	30
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	243	443
Balance Ratio		
By Crop		
Total	0.56	0.71
PAN	0.30	0.49
By Field		
Total	0.66	0.66
PAN	0.42	0.42
By Farm		
Total	0.43	0.43
PAN	0.32	0.32

Notes:
Total Balance Ratio is based on the total nitrogen (inorganic & organic) applied only during the time of that crop's growing season.
PAN Balance Ratio is based on Plant Available Nitrogen. In addition to inorganic nitrogen applied, PAN takes into consideration how much of the organic nitrogen has become available to the plant through mineralization. This includes both what is applied during that growing season and the residual amounts from previous applications to that field.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment D

Results of Record-Keeping Requirements
Planting and Harvest Data

(Ref MRP Annual Report, General Section, Item 17, subitems B.3 a and b)

* - A crop's planting date is reported in the harvest year with the yield of that crop.
** - If no manure is applied to the crop within the year, harvest is not reported (See Attachment E).
*** - For multiple year crops, a starting date is set to increment into annual periods.

Crops and Harvests

Field ID	Crop	Acres	Plant Date *	Multi Year Crop ***	Harvest Date **	Yield (tons/acre)		Total Tons
						Expected	Actual	
00	Alfalfa	15.00	11/15/2022	X		8		
01	Alfalfa	4.00	11/15/2022	X		8		
02	Alfalfa	8.00	11/15/2022	X		8		
03	Winter Forage	38.00	11/29/2022		05/11/2023	15	17.37	660
03	Corn Silage	38.00	06/06/2023		09/20/2023	20	26.98	1,025
04	Triticale	38.00	11/06/2022		05/13/2023	15	22.14	841
04	Corn Silage	38.00	05/30/2023		09/15/2023	20	33.64	1,278
05	Winter Forage	36.00	11/14/2022		05/10/2023	15	19.39	698
05	Corn Silage	36.00	06/13/2023		09/27/2023	20	29.74	1,071
06	Triticale	38.00	11/14/2022		05/13/2023	15	17.16	652
06	Corn Silage	38.00	06/09/2023		09/20/2023	20	26.44	1,005
07	Triticale	39.00	11/19/2022		05/13/2023	15	13.44	524
07	Corn Silage	39.00	06/03/2023		06/16/2023	20	29.56	1,153
08	Winter Forage	19.00	11/28/2022		05/13/2023	15	16.01	304
08	Corn Silage	19.00	06/09/2023		09/23/2023	20	19.72	375
09	Alfalfa	39.00	11/15/2022	X		8		
10	Winter Forage	19.00	11/28/2022		05/13/2023	15	10.36	197
10	Corn Silage	19.00	06/09/2023		09/20/2023	20	23.65	449
11	Alfalfa	39.00	11/19/2022	X		8		

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field ID	Crop	Acres	Plant Date *	Multi Year Crop ***	Harvest Date **	Yield (tons/acre)		Total Tons
						Expected	Actual	
17	Alfalfa	68.00	11/15/2022	X		8		
17	Corn Silage	68.00	06/17/2023		09/28/2023	20	28.81	1,959
18	Winter Forage	78.00	11/23/2022		05/12/2023	15	11.21	875
18	Corn Silage	78.00	06/05/2023		09/17/2023	20	23.35	1,822
19	Alfalfa	81.00	12/06/2022	X		8		
20	Winter Forage	123.00	11/21/2022		05/12/2023	15	9.56	1,175
20	Corn Silage	123.00	06/07/2023		09/21/2023	20	24.10	2,964
23	Triticale	75.00	11/05/2022		05/11/2023	15	16.92	1,269
23	Corn Silage	75.00	06/02/2023		09/18/2023	20	29.85	2,239

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Nutrients Removed

Field ID	Crop	Harvest Date	Total Tons (wet)	Total Tons (dry)	Sample ID	% Moisture	Conc. From Sample Analysis (% dry basis)			Total Pounds Removed		
							N	P	K	N	P	K
03	Winter Forage	5/11/2023	660	248		62.41	1.61	0.43	1.90	7,989	2,134	9,428
					23-23-P-4	62.41	1.61	0.43	1.90			
03	Corn Silage	9/20/2023	1,025	315		69.28	1.91	0.20	1.52	12,033	1,260	9,576
					23-23-P-26	69.28	1.91	0.20	1.52			
04	Triticale	5/13/2023	841	282		66.49	1.21	0.29	1.64	6,822	1,635	9,247
					23-23-P-5	66.49	1.21	0.29	1.64			
04	Corn Silage	9/15/2023	1,278	440		65.62	1.21	0.21	1.47	10,636	1,846	12,922
					23-23-P-17	65.62	1.21	0.21	1.47			
05	Winter Forage	5/10/2023	698	258		63.03	1.96	0.31	2.26	10,117	1,600	11,666
					23-23-P-1	63.03	1.96	0.31	2.26			
05	Corn Silage	9/27/2023	1,071	340		68.23	1.45	0.33	1.70	9,864	2,245	11,564
					23-23-P-31	68.23	1.45	0.33	1.70			
06	Triticale	5/13/2023	652	209		68.03	2.72	0.35	1.71	11,343	1,460	7,131
					23-23-P-12	68.03	2.72	0.35	1.71			
06	Corn Silage	9/20/2023	1,005	345		65.65	1.42	0.22	1.04	9,800	1,518	7,178
					23-23-P-25	65.65	1.42	0.22	1.04			
07	Triticale	5/13/2023	524	178		66.07	2.22	0.30	1.96	7,894	1,067	6,969
					23-23-P-13	66.07	2.22	0.30	1.96			
07	Corn Silage	6/16/2023	1,153	352		69.44	1.38	0.21	1.56	9,724	1,480	10,993
					23-23-P-18	69.44	1.38	0.21	1.56			
08	Winter Forage	5/13/2023	304	97		68.07	2.24	0.30	1.72	4,351	583	3,341
					23-23-P-14	68.07	2.24	0.30	1.72			
08	Corn Silage	9/23/2023	375	133		64.46	1.69	0.17	0.83	4,501	453	2,211
					23-23-P-23	64.46	1.69	0.17	0.83			
10	Winter Forage	5/13/2023	197	69		64.75	2.17	0.32	1.52	3,012	444	2,110
					23-23-P-15	64.75	2.17	0.32	1.52			
10	Corn Silage	9/20/2023	449	163		63.64	1.92	0.29	1.00	6,275	948	3,268
					23-23-P-24	63.64	1.92	0.29	1.00			
17	Corn Silage	9/28/2023	1,959	646		67.04	1.33	0.36	1.54	17,109	4,584	19,821
					23-23-P-32	63.41	1.22	0.33	1.26			

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field ID	Crop	Harvest Date	Total Tons (wet)	Total Tons (dry)	Sample ID	% Moisture	Conc. From Sample Analysis (% dry basis)			Total Pounds Removed		
							N	P	K	N	P	K
					23-23-P-33	70.67	1.43	0.38	1.81			
18	Winter Forage	5/12/2023	875	279		68.08	1.62	0.28	1.49	9,046	1,536	8,320
					23-23-P-8	67.69	1.43	0.27	1.48			
					23-23-P-9	68.46	1.81	0.28	1.50			
18	Corn Silage	9/17/2023	1,822	585		67.88	0.99	0.22	1.30	11,528	2,516	15,156
					23-23-P-19	65.07	0.91	0.23	1.34			
					23-23-P-20	70.68	1.06	0.20	1.25			
20	Winter Forage	5/12/2023	1,175	417		64.56	1.62	0.25	1.42	13,495	2,041	11,829
					23-23-P-6	63.68	1.38	0.24	1.39			
					23-23-P-7	65.44	1.86	0.25	1.45			
20	Corn Silage	9/21/2023	2,964	939		68.31	1.41	0.22	1.19	26,491	4,133	22,263
					23-23-P-27	68.89	1.51	0.22	1.28			
					23-23-P-28	67.73	1.31	0.22	1.09			
23	Triticale	5/11/2023	1,269	410		67.65	1.72	0.37	2.62	14,121	3,038	21,469
					23-23-P-2	63.03	1.96	0.30	1.98			
					23-23-P-3	72.26	1.48	0.44	3.25			
23	Corn Silage	9/18/2023	2,239	756		66.25	2.04	0.22	1.28	30,833	3,250	19,346
					23-23-P-21	64.93	2.11	0.19	1.35			
					23-23-P-22	67.56	1.97	0.24	1.21			

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment E

Results of Record-Keeping Requirements
Manure Applications to Fields

(Ref MRP Annual Report, General Section, Item 17, subitems B.3 c, d, and j)

Field: 00
Crop: Alfalfa

Total Nutrients Applied To This Crop:

Nitrogen	12	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 00

Crop: Alfalfa

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
4/18/2023	1,824							1.8
	1,824	23-23-W-13	Flame	Well	0.10			1.8
5/15/2023	1,824							1.8
	1,824	23-23-W-13	Flame	Well	0.10			1.8
6/10/2023	1,728							1.7
	1,728	23-23-W-13	Flame	Well	0.10			1.7
7/10/2023	2,448							2.4
	2,448	23-23-W-13	Flame	Well	0.10			2.4
8/07/2023	1,824							1.8
	1,824	23-23-W-13	Flame	Well	0.10			1.8
9/01/2023	1,896							1.9
	1,896	23-23-W-13	Flame	Well	0.10			1.9
Total =	**11,544**							**11.5**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 01

Crop: Alfalfa

Total Nutrients Applied To This Crop:

Nitrogen	77	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 01

Crop: Alfalfa

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/18/2022	294							0.3
	294	23-22-W-7	South	Well	0.10			0.3
4/21/2023	288							10.9
	288	23-21-I-1	Lift Pump	Surface	4.50			10.9
5/23/2023	288							10.9
	288	23-21-I-1	Lift Pump	Surface	4.50			10.9
6/07/2023	360							13.7
	360	23-21-I-1	Lift Pump	Surface	4.50			13.7
7/02/2023	360							13.7
	360	23-21-I-1	Lift Pump	Surface	4.50			13.7
8/06/2023	360							13.7
	360	23-21-I-1	Lift Pump	Surface	4.50			13.7
9/01/2023	360							13.7
	360	23-21-I-1	Lift Pump	Surface	4.50			13.7
Total =	**2,310**							**76.9**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 02

Crop: Alfalfa

Total Nutrients Applied To This Crop:

Nitrogen	97	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas

Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 02

Crop: Alfalfa

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/18/2022	1,092							1.1
	1,092	23-22-W-7	South	Well	0.10			1.1
4/21/2023	360							13.7
	360	23-21-I-1	Lift Pump	Surface	4.50			13.7
5/23/2023	432							16.4
	432	23-21-I-1	Lift Pump	Surface	4.50			16.4
6/07/2023	432							16.4
	432	23-21-I-1	Lift Pump	Surface	4.50			16.4
7/02/2023	432							16.4
	432	23-21-I-1	Lift Pump	Surface	4.50			16.4
8/06/2023	432							16.4
	432	23-21-I-1	Lift Pump	Surface	4.50			16.4
9/01/2023	432							16.4
	432	23-21-I-1	Lift Pump	Surface	4.50			16.4
Total =	**3,612**							**96.9**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 03

Crop: Winter Forage

Total Nutrients Applied To This Crop:

Nitrogen	400	**lbs**
Phosphorus	50	**lbs**
Potassium	1,612	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
02/14/2023	240		**0.00**	**190**	**25.2**	**809.4**	378	50	1,612
		23-23-L-1	0.00	190	25.2	809.4			
Total =	**240**						**378**	**50**	**1,612**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 03

Crop: Winter Forage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/27/2022	3,900							17.4
	1,650	23-22-W-8	Middle	Well	0.10			1.7
	2,250	23-22-W-10	Lake	Well	0.80			15.8
2/14/2023	2,304							3.7
	720	23-23-W-10	Lake	Well	0.30			2.2
	1,056	23-23-W-9	North	Well	0.10			1.1
	528	23-23-W-8	Middle	Well	0.10			0.5
Total =	**6,204**							**21.1**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 03

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	12,679	**lbs**
Phosphorus	2,379	**lbs**
Potassium	13,874	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
05/20/2023	175	40		**77.340**	**1.870**	**0.350**	**0.820**	1,483	278	650
			23-23-M-2	77.340	1.870	0.350	0.820			
Totals =	**175**	**40**						**1,483**	**278**	**650**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
08/23/2023	840		**0.00**	**530**	**83.0**	**598.0**	3,695	579	4,169
		23-23-L-3	0.00	530	83.0	598.0			
08/01/2023	690		**0.00**	**530**	**83.0**	**598.0**	3,035	475	3,425
		23-23-L-3	0.00	530	83.0	598.0			
07/21/2023	675		**0.00**	**299**	**99.0**	**532.0**	1,677	555	2,981
		23-23-L-2	0.00	299	99.0	532.0			
07/07/2023	600		**0.00**	**299**	**99.0**	**532.0**	1,491	493	2,649
		23-23-L-2	0.00	299	99.0	532.0			
Total =	**2,805**						**9,898**	**2,102**	**13,224**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 03

Crop: Corn Silage

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
5/25/2023	6,012							228.5
	6,012	23-21-I-1	Lift Pump	Surface	4.50			228.5
6/24/2023	5,616							213.4
	5,616	23-21-I-1	Lift Pump	Surface	4.50			213.4
7/07/2023	2,880							109.4
	2,880	23-21-I-1	Lift Pump	Surface	4.50			109.4
7/21/2023	3,240							123.1
	3,240	23-21-I-1	Lift Pump	Surface	4.50			123.1
7/23/2023	1,944							73.9
	1,944	23-21-I-1	Lift Pump	Surface	4.50			73.9
8/01/2023	3,312							125.9
	3,312	23-21-I-1	Lift Pump	Surface	4.50			125.9
8/12/2023	3,384							128.6
	3,384	23-21-I-1	Lift Pump	Surface	4.50			128.6
8/23/2023	4,032							153.2
	4,032	23-21-I-1	Lift Pump	Surface	4.50			153.2
9/06/2023	3,744							142.3
	3,744	23-21-I-1	Lift Pump	Surface	4.50			142.3
Total =	**34,164**							**1,298.2**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 04

Crop: Triticale

Total Nutrients Applied To This Crop:

Nitrogen	2,679	**lbs**
Phosphorus	336	**lbs**
Potassium	10,782	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
03/02/2023	825		**0.00**	**190**	**25.2**	**809.4**	1,301	173	5,542
		23-23-L-1	0.00	190	25.2	809.4			
02/09/2023	780		**0.00**	**190**	**25.2**	**809.4**	1,230	163	5,240
		23-23-L-1	0.00	190	25.2	809.4			
Total =	**1,605**						**2,531**	**336**	**10,782**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 04

Crop: Triticale

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/17/2022	3,978							17.7
	1,683	23-22-W-8	Middle	Well	0.10			1.7
	2,295	23-22-W-10	Lake	Well	0.80			16.1
2/09/2023	4,056							8.7
	2,340	23-23-W-10	Lake	Well	0.30			7.0
	1,716	23-23-W-8	Middle	Well	0.10			1.7
3/02/2023	4,290							9.2
	1,815	23-23-W-8	Middle	Well	0.10			1.8
	2,475	23-23-W-10	Lake	Well	0.30			7.4
4/17/2023	2,952							112.2
	2,952	23-21-I-1	Lift Pump	Surface	4.50			112.2
Total =	**15,276**							**147.9**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 04

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	7,475	**lbs**
Phosphorus	1,728	**lbs**
Potassium	10,082	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
08/14/2023	630		**0.00**	**530**	**83.0**	**598.0**	2,771	434	3,127
		23-23-L-3	0.00	530	83.0	598.0			
07/09/2023	750		**0.00**	**299**	**99.0**	**532.0**	1,863	616	3,312
		23-23-L-2	0.00	299	99.0	532.0			
05/18/2023	825		**0.00**	**299**	**99.0**	**532.0**	2,049	678	3,643
		23-23-L-2	0.00	299	99.0	532.0			
Total =	**2,205**						**6,684**	**1,728**	**10,082**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 04

Crop: Corn Silage

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
5/18/2023	3,960							150.5
	3,960	23-21-I-1	Lift Pump	Surface	4.50			150.5
6/22/2023	3,312							125.9
	3,312	23-21-I-1	Lift Pump	Surface	4.50			125.9
7/09/2023	3,600							136.8
	3,600	23-21-I-1	Lift Pump	Surface	4.50			136.8
8/03/2023	3,312							125.9
	3,312	23-21-I-1	Lift Pump	Surface	4.50			125.9
8/14/2023	3,024							114.9
	3,024	23-21-I-1	Lift Pump	Surface	4.50			114.9
8/26/2023	3,600							136.8
	3,600	23-21-I-1	Lift Pump	Surface	4.50			136.8
Total =	**20,808**							**790.7**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 05

Crop: Winter Forage

Total Nutrients Applied To This Crop:

Nitrogen	2,501	**lbs**
Phosphorus	329	**lbs**
Potassium	10,581	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
03/23/2023	795		**0.00**	**190**	**25.2**	**809.4**	1,254	166	5,341
		23-23-L-1	0.00	190	25.2	809.4			
02/08/2023	780		**0.00**	**190**	**25.2**	**809.4**	1,230	163	5,240
		23-23-L-1	0.00	190	25.2	809.4			
Total =	**1,575**						**2,484**	**329**	**10,581**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 05

Crop: Winter Forage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
2/08/2023	4,056							8.7
	1,716	23-23-W-8	Middle	Well	0.10			1.7
	2,340	23-23-W-10	Lake	Well	0.30			7.0
3/23/2023	4,134							8.9
	2,385	23-23-W-10	Lake	Well	0.30			7.2
	1,749	23-23-W-8	Middle	Well	0.10			1.7
Total =	**8,190**							**17.6**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 05

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	3,082	**lbs**
Phosphorus	666	**lbs**
Potassium	3,577	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
07/11/2023	810		**0.00**	**299**	**99.0**	**532.0**	2,012	666	3,577
		23-23-L-2	0.00	299	99.0	532.0			
Total =	**810**						**2,012**	**666**	**3,577**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 05

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
5/31/2023	6,264							238.0
	6,264	23-21-I-1	Lift Pump	Surface	4.50			238.0
6/29/2023	1,656							62.9
	1,656	23-21-I-1	Lift Pump	Surface	4.50			62.9
7/11/2023	3,888							147.7
	3,888	23-21-I-1	Lift Pump	Surface	4.50			147.7
7/24/2023	3,096							117.6
	3,096	23-21-I-1	Lift Pump	Surface	4.50			117.6
8/17/2023	3,528							134.1
	3,528	23-21-I-1	Lift Pump	Surface	4.50			134.1
8/28/2023	4,536							172.4
	4,536	23-21-I-1	Lift Pump	Surface	4.50			172.4
9/12/2023	5,184							197.0
	5,184	23-21-I-1	Lift Pump	Surface	4.50			197.0
Total =	**28,152**							**1,069.8**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 06

Crop: Triticale

Total Nutrients Applied To This Crop:

Nitrogen	3,488	**lbs**
Phosphorus	454	**lbs**
Potassium	12,378	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
03/07/2023	465		**0.00**	**190**	**25.2**	**809.4**	733	97	3,124
		23-23-L-1	0.00	190	25.2	809.4			
02/06/2023	840		**0.00**	**190**	**25.2**	**809.4**	1,325	176	5,643
		23-23-L-1	0.00	190	25.2	809.4			
10/19/2022	600		**0.00**	**280**	**36.3**	**725.0**	1,394	181	3,611
		23-22-L-3	0.00	280	36.3	725.0			
Total =	**1,905**						**3,452**	**454**	**12,378**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 06

Crop: Triticale

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/19/2022	3,120							13.9
	1,320	23-22-W-8	Middle	Well	0.10			1.3
	1,800	23-22-W-10	Lake	Well	0.80			12.6
2/06/2023	4,368							9.4
	1,848	23-23-W-8	Middle	Well	0.10			1.8
	2,520	23-23-W-10	Lake	Well	0.30			7.6
3/07/2023	2,418							5.2
	1,395	23-23-W-10	Lake	Well	0.30			4.2
	1,023	23-23-W-8	Middle	Well	0.10			1.0
4/09/2023	3,354							7.2
	1,419	23-23-W-8	Middle	Well	0.10			1.4
	1,935	23-23-W-10	Lake	Well	0.30			5.8
Total =	**13,260**							**35.8**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 06

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	1,783	**lbs**
Phosphorus	227	**lbs**
Potassium	1,638	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
07/30/2023	330		**0.00**	**530**	**83.0**	**598.0**	1,452	227	1,638
		23-23-L-3	0.00	530	83.0	598.0			
Total =	**330**						**1,452**	**227**	**1,638**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 06

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
7/01/2023	1,584							60.2
	1,584	23-21-I-1	Lift Pump	Surface	4.50			60.2
7/18/2023	1,368							52.0
	1,368	23-21-I-1	Lift Pump	Surface	4.50			52.0
7/30/2023	1,584							60.2
	1,584	23-21-I-1	Lift Pump	Surface	4.50			60.2
8/10/2023	1,440							54.7
	1,440	23-21-I-1	Lift Pump	Surface	4.50			54.7
8/22/2023	1,152							43.8
	1,152	23-21-I-1	Lift Pump	Surface	4.50			43.8
9/08/2023	1,584							60.2
	1,584	23-21-I-1	Lift Pump	Surface	4.50			60.2
Total =	**8,712**							**331.1**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 07

Crop: Triticale

Total Nutrients Applied To This Crop:

Nitrogen	5,925	**lbs**
Phosphorus	771	**lbs**
Potassium	20,808	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
03/17/2023	390		**0.00**	**190**	**25.2**	**809.4**	615	82	2,620
		23-23-L-1	0.00	190	25.2	809.4			
02/03/2023	1,740		**0.00**	**190**	**25.2**	**809.4**	2,744	364	11,689
		23-23-L-1	0.00	190	25.2	809.4			
10/21/2022	1,080		**0.00**	**280**	**36.3**	**725.0**	2,510	325	6,499
		23-22-L-3	0.00	280	36.3	725.0			
Total =	**3,210**						**5,869**	**771**	**20,808**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 07

Crop: Triticale

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/21/2022	5,616							25.1
	2,376	23-22-W-8	Middle	Well	0.10			2.4
	3,240	23-22-W-10	Lake	Well	0.80			22.7
2/03/2023	9,048							19.5
	5,220	23-23-W-10	Lake	Well	0.30			15.7
	3,828	23-23-W-8	Middle	Well	0.10			3.8
3/17/2023	2,028							4.4
	858	23-23-W-8	Middle	Well	0.10			0.9
	1,170	23-23-W-10	Lake	Well	0.30			3.5
4/10/2023	3,432							7.4
	1,980	23-23-W-10	Lake	Well	0.30			5.9
	1,452	23-23-W-8	Middle	Well	0.10			1.5
Total =	**20,124**							**56.3**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 07

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	4,606	**lbs**
Phosphorus	1,343	**lbs**
Potassium	7,220	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
07/13/2023	975		**0.00**	**299**	**99.0**	**532.0**	2,422	801	4,305
		23-23-L-2	0.00	299	99.0	532.0			
05/20/2023	660		**0.00**	**299**	**99.0**	**532.0**	1,640	542	2,914
		23-23-L-2	0.00	299	99.0	532.0			
Total =	**1,635**						**4,062**	**1,343**	**7,220**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 07

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
5/20/2023	3,168							120.4
	3,168	23-21-I-1	Lift Pump	Surface	4.50			120.4
6/28/2023	1,800							68.4
	1,800	23-21-I-1	Lift Pump	Surface	4.50			68.4
7/13/2023	4,680							177.8
	4,680	23-21-I-1	Lift Pump	Surface	4.50			177.8
7/27/2023	2,088							79.3
	2,088	23-21-I-1	Lift Pump	Surface	4.50			79.3
8/09/2023	1,440							54.7
	1,440	23-21-I-1	Lift Pump	Surface	4.50			54.7
8/27/2023	1,152							43.8
	1,152	23-21-I-1	Lift Pump	Surface	4.50			43.8
Total =	**14,328**							**544.5**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 08

Crop: Winter Forage

Total Nutrients Applied To This Crop:

Nitrogen	881	**lbs**
Phosphorus	104	**lbs**
Potassium	3,325	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
04/07/2023	495		**0.00**	**190**	**25.2**	**809.4**	781	104	3,325
		23-23-L-1	0.00	190	25.2	809.4			
Total =	**495**						**781**	**104**	**3,325**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 08

Crop: Winter Forage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/25/2022	2,262							10.1
	957	23-22-W-8	Middle	Well	0.10			1.0
	1,305	23-22-W-10	Lake	Well	0.80			9.1
4/07/2023	2,376							90.3
	2,376	23-21-I-1	Lift Pump	Surface	4.50			90.3
Total =	**4,638**							**100.4**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 08

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	2,279	**lbs**
Phosphorus	316	**lbs**
Potassium	1,544	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
05/23/2023	95	22		**77.340**	**1.870**	**0.350**	**0.820**	805	151	353
			23-23-M-2	77.340	1.870	0.350	0.820			
Totals =	**95**	**22**						**805**	**151**	**353**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
07/30/2023	240		**0.00**	**530**	**83.0**	**598.0**	1,056	165	1,191
		23-23-L-3	0.00	530	83.0	598.0			
Total =	**240**						**1,056**	**165**	**1,191**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 08

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
5/29/2023	2,088							79.3
	2,088	23-21-I-1	Lift Pump	Surface	4.50			79.3
7/17/2023	1,872							71.1
	1,872	23-21-I-1	Lift Pump	Surface	4.50			71.1
7/30/2023	1,152							43.8
	1,152	23-21-I-1	Lift Pump	Surface	4.50			43.8
8/08/2023	2,880							109.4
	2,880	23-21-I-1	Lift Pump	Surface	4.50			109.4
8/21/2023	1,440							54.7
	1,440	23-21-I-1	Lift Pump	Surface	4.50			54.7
8/29/2023	1,584							60.2
	1,584	23-21-I-1	Lift Pump	Surface	4.50			60.2
Total =	**11,016**							**418.6**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 09

Crop: Alfalfa

Total Nutrients Applied To This Crop:

Nitrogen	752	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 09

Crop: Alfalfa

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
4/12/2023	1,224							46.5
	1,224	23-21-I-1	Lift Pump	Surface	4.50			46.5
5/16/2023	2,880							109.4
	2,880	23-21-I-1	Lift Pump	Surface	4.50			109.4
6/11/2023	3,672							139.5
	3,672	23-21-I-1	Lift Pump	Surface	4.50			139.5
7/03/2023	3,888							147.7
	3,888	23-21-I-1	Lift Pump	Surface	4.50			147.7
8/08/2023	3,024							114.9
	3,024	23-21-I-1	Lift Pump	Surface	4.50			114.9
9/01/2023	5,112							194.3
	5,112	23-21-I-1	Lift Pump	Surface	4.50			194.3
Total =	**19,800**							**752.4**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 10

Crop: Winter Forage

Total Nutrients Applied To This Crop:

Nitrogen	610	**lbs**
Phosphorus	72	**lbs**
Potassium	2,318	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
04/18/2023	345		**0.00**	**190**	**25.2**	**809.4**	544	72	2,318
		23-23-L-1	0.00	190	25.2	809.4			
Total =	**345**						**544**	**72**	**2,318**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 10

Crop: Winter Forage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/26/2022	2,346							3.2
	1,518	23-22-W-9	North	Well	0.10			1.5
	828	23-22-W-17	Shop	Well	0.20			1.7
4/18/2023	1,656							62.9
	1,656	23-21-I-1	Lift Pump	Surface	4.50			62.9
Total =	**4,002**							**66.1**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 10

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	1,259	**lbs**
Phosphorus	151	**lbs**
Potassium	353	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
05/23/2023	95	22		**77.340**	**1.870**	**0.350**	**0.820**	805	151	353
			23-23-M-2	77.340	1.870	0.350	0.820			
Totals =	**95**	**22**						**805**	**151**	**353**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 10

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
5/30/2023	1,656							62.9
	1,656	23-21-I-1	Lift Pump	Surface	4.50			62.9
7/03/2023	2,376							90.3
	2,376	23-21-I-1	Lift Pump	Surface	4.50			90.3
7/18/2023	1,872							71.1
	1,872	23-21-I-1	Lift Pump	Surface	4.50			71.1
7/27/2023	1,872							71.1
	1,872	23-21-I-1	Lift Pump	Surface	4.50			71.1
8/06/2023	1,152							43.8
	1,152	23-21-I-1	Lift Pump	Surface	4.50			43.8
8/16/2023	1,152							43.8
	1,152	23-21-I-1	Lift Pump	Surface	4.50			43.8
8/28/2023	1,872							71.1
	1,872	23-21-I-1	Lift Pump	Surface	4.50			71.1
Total =	**11,952**							**454.2**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 11

Crop: Alfalfa

Total Nutrients Applied To This Crop:

Nitrogen	911	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 11

Crop: Alfalfa

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
4/13/2023	3,600							136.8
	3,600	23-21-I-1	Lift Pump	Surface	4.50			136.8
5/15/2023	2,376							90.3
	2,376	23-21-I-1	Lift Pump	Surface	4.50			90.3
6/08/2023	5,112							194.3
	5,112	23-21-I-1	Lift Pump	Surface	4.50			194.3
7/06/2023	1,728							65.7
	1,728	23-21-I-1	Lift Pump	Surface	4.50			65.7
7/28/2023	3,384							128.6
	3,384	23-21-I-1	Lift Pump	Surface	4.50			128.6
8/07/2023	3,672							139.5
	3,672	23-21-I-1	Lift Pump	Surface	4.50			139.5
9/01/2023	4,104							156.0
	4,104	23-21-I-1	Lift Pump	Surface	4.50			156.0
Total =	**23,976**							**911.1**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 17

Crop: Alfalfa

Total Nutrients Applied To This Crop:

Nitrogen	257	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO3-N	NH4-N	TKN	
4/12/2023	6,768							257.2
	6,768	23-21-I-1	Lift Pump	Surface	4.50			257.2
Total =	**6,768**							**257.2**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 17

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	1,406	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 17

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
6/04/2023	6,408							243.5
	6,408	23-21-I-1	Lift Pump	Surface	4.50			243.5
7/17/2023	5,184							197.0
	5,184	23-21-I-1	Lift Pump	Surface	4.50			197.0
7/28/2023	6,408							243.5
	6,408	23-21-I-1	Lift Pump	Surface	4.50			243.5
8/10/2023	5,760							218.9
	5,760	23-21-I-1	Lift Pump	Surface	4.50			218.9
8/23/2023	7,488							284.5
	7,488	23-21-I-1	Lift Pump	Surface	4.50			284.5
9/09/2023	5,760							218.9
	5,760	23-21-I-1	Lift Pump	Surface	4.50			218.9
Total =	**37,008**							**1,406.3**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 18

Crop: Winter Forage

Total Nutrients Applied To This Crop:

Nitrogen	6,651	**lbs**
Phosphorus	853	**lbs**
Potassium	27,410	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
04/19/2023	960		**0.00**	**190**	**25.2**	**809.4**	1,514	201	6,449
		23-23-L-1	0.00	190	25.2	809.4			
03/23/2023	1,530		**0.00**	**190**	**25.2**	**809.4**	2,413	320	10,279
		23-23-L-1	0.00	190	25.2	809.4			
02/04/2023	1,590		**0.00**	**190**	**25.2**	**809.4**	2,507	333	10,682
		23-23-L-1	0.00	190	25.2	809.4			
Total =	**4,080**						**6,434**	**853**	**27,410**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 18

Crop: Winter Forage

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/24/2022	6,480							6.5
	6,480	23-22-W-14	Butte	Well	0.10			6.5
2/04/2023	8,268							17.8
	4,770	23-23-W-10	Lake	Well	0.30			14.3
	3,498	23-23-W-8	Middle	Well	0.10			3.5
3/23/2023	7,956							17.1
	3,366	23-23-W-8	Middle	Well	0.10			3.4
	4,590	23-23-W-10	Lake	Well	0.30			13.8
4/19/2023	4,608							175.1
	4,608	23-21-I-1	Lift Pump	Surface	4.50			175.1
Total =	**27,312**							**216.5**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 18

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	10,858	**lbs**
Phosphorus	2,161	**lbs**
Potassium	12,977	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
08/13/2023	1,080		**0.00**	**530**	**83.0**	**598.0**	4,751	744	5,360
		23-23-L-3	0.00	530	83.0	598.0			
05/22/2023	1,725		**0.00**	**299**	**99.0**	**532.0**	4,285	1,417	7,617
		23-23-L-2	0.00	299	99.0	532.0			
Total =	**2,805**						**9,036**	**2,161**	**12,977**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 18

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
5/22/2023	8,280							314.6
	8,280	23-21-I-1	Lift Pump	Surface	4.50			314.6
6/22/2023	10,296							391.2
	10,296	23-21-I-1	Lift Pump	Surface	4.50			391.2
7/07/2023	4,824							183.3
	4,824	23-21-I-1	Lift Pump	Surface	4.50			183.3
7/20/2023	5,040							191.5
	5,040	23-21-I-1	Lift Pump	Surface	4.50			191.5
8/01/2023	5,688							216.1
	5,688	23-21-I-1	Lift Pump	Surface	4.50			216.1
8/13/2023	5,184							197.0
	5,184	23-21-I-1	Lift Pump	Surface	4.50			197.0
8/27/2023	8,640							328.3
	8,640	23-21-I-1	Lift Pump	Surface	4.50			328.3
Total =	**47,952**							**1,822.2**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 19

Crop: Alfalfa

Total Nutrients Applied To This Crop:

Nitrogen	1,911	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
Total =									

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 19

Crop: Alfalfa

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/18/2022	6,426							6.4
	6,426	23-22-W-13	Yuba	Well	0.10			6.4
4/16/2023	7,344							279.1
	7,344	23-21-I-1	Lift Pump	Surface	4.50			279.1
5/15/2023	8,640							328.3
	8,640	23-21-I-1	Lift Pump	Surface	4.50			328.3
6/08/2023	8,424							320.1
	8,424	23-21-I-1	Lift Pump	Surface	4.50			320.1
7/03/2023	8,784							333.8
	8,784	23-21-I-1	Lift Pump	Surface	4.50			333.8
8/09/2023	10,008							380.3
	10,008	23-21-I-1	Lift Pump	Surface	4.50			380.3
9/11/2023	6,912							262.7
	6,912	23-21-I-1	Lift Pump	Surface	4.50			262.7
Total =	**56,538**							**1,910.7**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 20

Crop: Winter Forage

Total Nutrients Applied To This Crop:

Nitrogen	8,315	**lbs**
Phosphorus	1,048	**lbs**
Potassium	33,657	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
04/20/2023	2,040		**0.00**	**190**	**25.2**	**809.4**	3,217	427	13,705
		23-23-L-1	0.00	190	25.2	809.4			
03/30/2023	2,970		**0.00**	**190**	**25.2**	**809.4**	4,684	621	19,953
		23-23-L-1	0.00	190	25.2	809.4			
Total =	**5,010**						**7,901**	**1,048**	**33,657**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 20

Crop: Winter Forage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/18/2022	9,366							9.4
	9,366	23-22-W-13	Yuba	Well	0.10			9.4
3/30/2023	15,444							33.3
	8,910	23-23-W-10	Lake	Well	0.30			26.7
	6,534	23-23-W-8	Middle	Well	0.10			6.5
4/20/2023	9,792							372.1
	9,792	23-21-I-1	Lift Pump	Surface	4.50			372.1
Total =	**34,602**							**414.7**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 20

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	21,392	**lbs**
Phosphorus	5,247	**lbs**
Potassium	29,519	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
08/14/2023	1,050		**0.00**	**530**	**83.0**	**598.0**	4,619	723	5,212
		23-23-L-3	0.00	530	83.0	598.0			
07/09/2023	2,580		**0.00**	**299**	**99.0**	**532.0**	6,409	2,120	11,392
		23-23-L-2	0.00	299	99.0	532.0			
05/20/2023	2,925		**0.00**	**299**	**99.0**	**532.0**	7,266	2,403	12,916
		23-23-L-2	0.00	299	99.0	532.0			
Total =	**6,555**						**18,294**	**5,247**	**29,519**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 20

Crop: Corn Silage

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
5/20/2023	14,040							533.5
	14,040	23-21-I-1	Lift Pump	Surface	4.50			533.5
6/22/2023	10,584							402.2
	10,584	23-21-I-1	Lift Pump	Surface	4.50			402.2
7/09/2023	12,384							470.6
	12,384	23-21-I-1	Lift Pump	Surface	4.50			470.6
7/22/2023	8,568							325.6
	8,568	23-21-I-1	Lift Pump	Surface	4.50			325.6
8/01/2023	4,896							186.0
	4,896	23-21-I-1	Lift Pump	Surface	4.50			186.0
8/06/2023	5,184							197.0
	5,184	23-21-I-1	Lift Pump	Surface	4.50			197.0
8/14/2023	5,040							191.5
	5,040	23-21-I-1	Lift Pump	Surface	4.50			191.5
8/23/2023	10,440							396.7
	10,440	23-21-I-1	Lift Pump	Surface	4.50			396.7
9/05/2023	10,368							394.0
	10,368	23-21-I-1	Lift Pump	Surface	4.50			394.0
Total =	**81,504**							**3,097.2**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 23

Crop: Triticale

Total Nutrients Applied To This Crop:

Nitrogen	9,662	**lbs**
Phosphorus	1,239	**lbs**
Potassium	35,945	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
Totals =	**0**	**0**						**0**	**0**	**0**

Wastewater Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
04/22/2023	645		**0.00**	**190**	**25.2**	**809.4**	1,017	135	4,333
		23-23-L-1	0.00	190	25.2	809.4			
02/21/2023	1,095		**0.00**	**190**	**25.2**	**809.4**	1,727	229	7,356
		23-23-L-1	0.00	190	25.2	809.4			
02/14/2023	1,455		**0.00**	**190**	**25.2**	**809.4**	2,295	304	9,775
		23-23-L-1	0.00	190	25.2	809.4			
02/01/2023	1,215		**0.00**	**190**	**25.2**	**809.4**	1,916	254	8,162
		23-23-L-1	0.00	190	25.2	809.4			
10/22/2022	1,050		**0.00**	**280**	**36.3**	**725.0**	2,440	316	6,318
		23-22-L-3	0.00	280	36.3	725.0			
Total =	**5,460**						**9,395**	**1,239**	**35,945**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas

Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 23

Crop: Triticale

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
10/19/2022	3,105							3.1
	3,105	23-22-W-11	23	Well	0.10			3.1
10/22/2022	3,150							3.2
	3,150	23-22-W-11	23	Well	0.10			3.2
2/01/2023	3,645							3.6
	3,645	23-23-W-11	23	Well	0.10			3.6
2/14/2023	4,365							4.4
	4,365	23-23-W-11	23	Well	0.10			4.4
2/21/2023	4,365							4.4
	4,365	23-23-W-11	23	Well	0.10			4.4
4/20/2023	3,456							131.3
	3,456	23-21-I-1	Lift Pump	Surface	4.50			131.3
4/22/2023	3,096							117.6
	3,096	23-21-I-1	Lift Pump	Surface	4.50			117.6
Total =	**25,182**							**267.6**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 23

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	23,072	**lbs**
Phosphorus	4,903	**lbs**
Potassium	27,059	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K

Solid Manure Applications:

Date	Total Tons (as is)	Total Tons (dry)	Sample ID	Moisture (%)	Conc. from Sample Analysis (% dry)			Total Pounds Applied		
					N	P	K	N	P	K
05/24/2023	375	85		**77.340**	**1.870**	**0.350**	**0.820**	3,178	595	1,394
			23-23-M-2	77.340	1.870	0.350	0.820			
Totals =	**375**	**85**						**3,178**	**595**	**1,394**

Wastewater Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 23

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Conc. from Sample Analysis (mg/l)				Total Pounds Applied		
			No3-N	TKN	P	K	N	P	K
08/23/2023	825		**0.00**	**530**	**83.0**	**598.0**	3,629	568	4,095
		23-23-L-3	0.00	530	83.0	598.0			
07/30/2023	1,170		**0.00**	**530**	**83.0**	**598.0**	5,147	806	5,807
		23-23-L-3	0.00	530	83.0	598.0			
07/21/2023	675		**0.00**	**299**	**99.0**	**532.0**	1,677	555	2,981
		23-23-L-2	0.00	299	99.0	532.0			
07/12/2023	705		**0.00**	**299**	**99.0**	**532.0**	1,751	579	3,113
		23-23-L-2	0.00	299	99.0	532.0			
07/10/2023	855		**0.00**	**299**	**99.0**	**532.0**	2,124	703	3,775
		23-23-L-2	0.00	299	99.0	532.0			
05/22/2023	1,335		**0.00**	**299**	**99.0**	**532.0**	3,316	1,097	5,895
		23-23-L-2	0.00	299	99.0	532.0			
Total =	**5,565**						**17,645**	**4,308**	**25,666**

Irrigation Applications:

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas

Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 23

Crop: Corn Silage

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
5/22/2023	6,408							243.5
	6,408	23-21-I-1	Lift Pump	Surface	4.50			243.5
5/27/2023	3,384							128.6
	3,384	23-21-I-1	Lift Pump	Surface	4.50			128.6
6/25/2023	5,472							207.9
	5,472	23-21-I-1	Lift Pump	Surface	4.50			207.9
6/28/2023	3,456							131.3
	3,456	23-21-I-1	Lift Pump	Surface	4.50			131.3
7/10/2023	4,104							156.0
	4,104	23-21-I-1	Lift Pump	Surface	4.50			156.0
7/12/2023	3,384							128.6
	3,384	23-21-I-1	Lift Pump	Surface	4.50			128.6
7/20/2023	3,456							131.3
	3,456	23-21-I-1	Lift Pump	Surface	4.50			131.3
7/21/2023	3,240							123.1
	3,240	23-21-I-1	Lift Pump	Surface	4.50			123.1
7/29/2023	1,224							46.5
	1,224	23-21-I-1	Lift Pump	Surface	4.50			46.5
7/30/2023	5,616							213.4
	5,616	23-21-I-1	Lift Pump	Surface	4.50			213.4
8/05/2023	1,944							73.9
	1,944	23-21-I-1	Lift Pump	Surface	4.50			73.9
8/10/2023	4,752							180.6
	4,752	23-21-I-1	Lift Pump	Surface	4.50			180.6
8/15/2023	1,152							43.8
	1,152	23-21-I-1	Lift Pump	Surface	4.50			43.8
8/23/2023	3,960							150.5
	3,960	23-21-I-1	Lift Pump	Surface	4.50			150.5
8/25/2023	1,296							49.2
	1,296	23-21-I-1	Lift Pump	Surface	4.50			49.2
9/05/2023	5,184							197.0
	5,184	23-21-I-1	Lift Pump	Surface	4.50			197.0
9/08/2023	1,152							43.8

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field: 23

Crop: Corn Silage

	1,152	23-21-I-1	Lift Pump	Surface	4.50			43.8
Total =	**59,184**							**2,249.0**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment F

Results of Record-Keeping Requirements
Weather Conditions During Applications

(Ref MRP Annual Report, General Section, Item 17, subitem B.3 e)

Application Weather Conditions

Field	Date	Type of Application	Weather Conditions		
			24 hr Prior	During	24 hr After
03	05/20/2023	Manure	Nominal	Nominal	Nominal
03	02/14/2023	Process Wastewater	Nominal	Nominal	Nominal
03	07/07/2023	Process Wastewater	Nominal	Nominal	Nominal
03	07/21/2023	Process Wastewater	Nominal	Nominal	Nominal
03	08/01/2023	Process Wastewater	Nominal	Nominal	Nominal
03	08/23/2023	Process Wastewater	Nominal	Nominal	Nominal
04	02/09/2023	Process Wastewater	Nominal	Nominal	Nominal
04	03/02/2023	Process Wastewater	Precipitation	Nominal	Precipitation
04	05/18/2023	Process Wastewater	Nominal	Nominal	Nominal
04	07/09/2023	Process Wastewater	Nominal	Nominal	Nominal
04	08/14/2023	Process Wastewater	Nominal	Nominal	Nominal
05	02/08/2023	Process Wastewater	Nominal	Precipitation	Nominal
05	03/23/2023	Process Wastewater	Nominal	Nominal	Precipitation
05	07/11/2023	Process Wastewater	Nominal	Nominal	Nominal
06	10/19/2022	Process Wastewater	Nominal	Nominal	Nominal
06	02/06/2023	Process Wastewater	Nominal	Precipitation	Nominal
06	03/07/2023	Process Wastewater	Nominal	Nominal	Nominal
06	07/30/2023	Process Wastewater	Nominal	Nominal	Nominal
07	10/21/2022	Process Wastewater	Nominal	Nominal	Nominal
07	02/03/2023	Process Wastewater	Nominal	Precipitation	Nominal
07	03/17/2023	Process Wastewater	Nominal	Nominal	Precipitation
07	05/20/2023	Process Wastewater	Nominal	Nominal	Nominal

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Field	Date	Type of Application	Weather Conditions		
			24 hr Prior	During	24 hr After
07	07/13/2023	Process Wastewater	Nominal	Nominal	Nominal
08	05/23/2023	Manure	Nominal	Nominal	Nominal
08	04/07/2023	Process Wastewater	Nominal	Nominal	Nominal
08	07/30/2023	Process Wastewater	Nominal	Nominal	Nominal
10	05/23/2023	Manure	Nominal	Nominal	Nominal
10	04/18/2023	Process Wastewater	Nominal	Nominal	Nominal
18	02/04/2023	Process Wastewater	Nominal	Precipitation	Nominal
18	03/23/2023	Process Wastewater	Nominal	Nominal	Precipitation
18	04/19/2023	Process Wastewater	Nominal	Nominal	Nominal
18	05/22/2023	Process Wastewater	Nominal	Nominal	Nominal
18	08/13/2023	Process Wastewater	Nominal	Nominal	Nominal
20	03/30/2023	Process Wastewater	Precipitation	Nominal	Nominal
20	04/20/2023	Process Wastewater	Nominal	Nominal	Nominal
20	05/20/2023	Process Wastewater	Nominal	Nominal	Nominal
20	07/09/2023	Process Wastewater	Nominal	Nominal	Nominal
20	08/14/2023	Process Wastewater	Nominal	Nominal	Nominal
23	05/24/2023	Manure	Nominal	Nominal	Nominal
23	10/22/2022	Process Wastewater	Nominal	Nominal	Nominal
23	02/01/2023	Process Wastewater	Nominal	Nominal	Precipitation
23	02/14/2023	Process Wastewater	Nominal	Nominal	Nominal
23	02/21/2023	Process Wastewater	Nominal	Nominal	Nominal
23	04/22/2023	Process Wastewater	Nominal	Nominal	Nominal
23	05/22/2023	Process Wastewater	Nominal	Nominal	Nominal
23	07/10/2023	Process Wastewater	Nominal	Nominal	Nominal
23	07/12/2023	Process Wastewater	Nominal	Nominal	Nominal
23	07/21/2023	Process Wastewater	Nominal	Nominal	Nominal
23	07/30/2023	Process Wastewater	Nominal	Nominal	Nominal
23	08/23/2023	Process Wastewater	Nominal	Nominal	Nominal

Note: Nominal applies to any weather condition that is not Precipitation or Standing Water when the application occurred .

Dairy Name: Pacheco Dairy Inc
Dairy Address: 1108 N. Plumas
Kerman, CA 93630
Report Period: Jan 01 through Dec 31, 2023

Attachment G

Support for Estimated Solid Manure & Wastewater and Nutrients Transferred Offsite

(Ref MRP Annual Report, General Section, Item 6)

Solid Manure Transfers

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Date Of Transfer	Total Manure (tons)	Total Dry Manure (tons)	Sample ID	Moisture %	Total (% dry basis)			Total Pounds Transferred		
					N	P	K	N	P	K
2/11/2023	556	489								
			23-23-M-1	11.980	2.170	0.670	2.660			
				11.980	**2.170**	**0.670**	**2.660**	**21,240**	**6,558**	**26,036**
2/21/2023	654	576								
			23-23-M-1	11.980	2.170	0.670	2.660			
				11.980	**2.170**	**0.670**	**2.660**	**24,983**	**7,714**	**30,625**
3/11/2023	199	175								
			23-23-M-1	11.980	2.170	0.670	2.660			
				11.980	**2.170**	**0.670**	**2.660**	**7,602**	**2,347**	**9,319**
3/15/2023	218	192								
			23-23-M-1	11.980	2.170	0.670	2.660			
				11.980	**2.170**	**0.670**	**2.660**	**8,328**	**2,571**	**10,208**
3/19/2023	143	126								
			23-23-M-1	11.980	2.170	0.670	2.660			
				11.980	**2.170**	**0.670**	**2.660**	**5,463**	**1,687**	**6,696**
3/29/2023	194	171								
			23-23-M-1	11.980	2.170	0.670	2.660			
				11.980	**2.170**	**0.670**	**2.660**	**7,411**	**2,288**	**9,084**
9/12/2023	434	392								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**23,467**	**5,729**	**19,307**
9/16/2023	402	363								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**21,737**	**5,307**	**17,884**
9/22/2023	310	280								

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**16,762**	**4,092**	**13,791**
9/23/2023	430	389								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**23,251**	**5,677**	**19,129**
9/28/2023	380	344								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**20,547**	**5,017**	**16,905**
10/12/2023	264	239								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**14,275**	**3,485**	**11,744**
10/17/2023	298	269								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**16,113**	**3,934**	**13,257**
10/21/2023	167	151								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**9,030**	**2,205**	**7,429**
10/23/2023	245	222								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**13,247**	**3,234**	**10,899**
10/25/2023	272	246								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**14,707**	**3,591**	**12,100**
11/09/2023	146	132								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**7,894**	**1,927**	**6,495**
11/10/2023	146	132								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**7,894**	**1,927**	**6,495**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

11/11/2023	151	137								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**8,165**	**1,993**	**6,717**
11/13/2023	380	344								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**20,547**	**5,017**	**16,905**
11/14/2023	975	882								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**52,719**	**12,871**	**43,374**
11/26/2023	337	305								
			23-23-M-4	9.580	2.990	0.730	2.460			
				9.580	**2.990**	**0.730**	**2.460**	**18,222**	**4,449**	**14,992**
Grand Total / Average	**7,301**	**6,554**		**10.235**	**2.766**	**0.714**	**2.515**	**363,604**	**93,620**	**329,393**

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Wastewater Transfers

Date Of Transfer	Source Location	Location Aerated?	Total Gal (1,000 gal)	Sample ID	Conc. From Sample Analysis (mg/l)				EC (umhos/cm)	Total lbs Transferred			
					NO3-N	TKN	P	K		N	P	K	Salt
Grand Totals / Averages			0							0	0	0	0

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Attachment H

Tabulated Analytical Sample Data

(Ref MRP Annual Report, General Section, Item 16)

Manure Samples

Sample Date	Source Location	Sample ID	Moisture %	Total (% Dry Basis) N	P	K
06/09/2023	Corral	23-23-M-1	11.98 0.10	2.17 0.05	0.67 0.01	2.66 0.02
06/09/2023	Screen Separator	23-23-M-2	77.34 0.10	1.87 0.05	0.35 0.01	0.82 0.02
10/11/2023	Screen Separator	23-23-M-3	75.91 0.10	2.01 0.05	0.31 0.01	0.29 0.02
10/11/2023	Corral	23-23-M-4	9.58 0.10	2.99 0.05	0.73 0.01	2.46 0.02
Average			**43.70**	**2.26**	**0.52**	**1.56**

Manure General Mineral Analysis

Required Once Every Two Years Last Analysis Date: 5/8/2020

Sample Date	Source Location	Sample ID	%Na	%Ca	%Mg	%S	%Cl	%ASH

Notes: Laboratory detection limit listed below each result.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Wastewater Samples

(NO_3-N required only if lagoon is aerated)

Sample Date	Source Location	Sample ID	Location Aerated?	Total (mg/l)						EC (umhos/cm)
				NO_3 - N	NH_4 - N	TKN	P	K	TDS	
03/09/2023	Storage 4	23-23-L-1	N	2.60	25.0 2.6	190 76	25.2 0.6	809.4 4.3	3,744 19	5,600 10.00
06/09/2023	Storage 4	23-23-L-2	N	2.60	147.9 2.6	299 76	99.0 0.6	532.0 4.3	3,210 19	5,000 10.00
08/17/2023	Storage 4	23-23-L-3	N	2.60	222.6 2.6	530 76	83.0 0.6	598.0 4.3	3,496 19	5,463 10.00
10/11/2023	Storage 4	23-23-L-4	N	2.60	296.1 2.6	440 76	84.6 0.6	731.2 4.3	3,822 19	5,972 10.00
Averages					**172.9**	**365**	**73.0**	**667.7**	**3,568**	**5,509**

Wastewater General Minerals Analysis

Required Once Every Two Years Last Analysis Date: 5/17/2022

Sample Date	Source Location	Sample ID	CO_3 (mg/l)	HCO_3 (mg/l)	Cl (mg/l)	SO_4-S (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)

Notes: Laboratory detection limit listed below each result.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Water Supply Samples

(NH_4-N analyzed only if Field Test is positive)

Sample Date	Source ID	Source Type	Status	Sample ID	Condition	Last Gen Min Analysis	EC (umhos/cm)	NO_3-N (mg/l)	NH_4-N (mg/l)	TKN (mg/l)	Notes
	Lift Pump	Surface	Active								
10/23/2023	23	Well	Active	23-23-W-11	Wet	11/03/2022	698 10.00	< 0.1 0.10	0.50		
10/23/2023	23 Domestic	Well	Active	23-23-W-2	Wet	11/02/2017	677 10.00	0.1 0.10	0.50		
10/23/2023	Barn East	Well	Active	23-23-W-1	Wet	11/03/2022	682 10.00	< 0.1 0.10	0.50		
10/23/2023	Barn West	Well	Active	23-23-W-16	Wet	11/03/2022	568 10.00	< 0.1 0.10	0.50		
10/23/2023	Belmont	Well	Active	23-23-W-12	Wet	11/03/2022	552 10.00	< 0.1 0.10	0.50		
10/23/2023	Brian	Well	Active	23-23-W-4	Wet	11/03/2022	661 10.00	< 0.1 0.10	0.50		
10/23/2023	Butte	Well	Active	23-23-W-15	Wet	11/03/2022	548 10.00	< 0.1 0.10	0.50		
	Dairy North	Well	InActive								
10/23/2023	Dakota	Well	Active	23-23-W-14	Wet	11/02/2017	239 10.00	< 0.1 0.10	0.50		
10/23/2023	Duplex	Well	Active	23-23-W-5	Wet	11/03/2022	645 10.00	< 0.1 0.10	0.50		
10/23/2023	Flame	Well	Active	23-23-W-13	Wet	11/03/2022	674 10.00	< 0.1 0.10	0.50		
10/23/2023	Hospital	Well	Active	23-23-W-6	Wet	11/03/2022	578 10.00	< 0.1 0.10	0.50		
10/23/2023	Jerry	Well	Active	23-23-W-3	Wet	11/03/2022	564 10.00	< 0.1 0.10	0.50		
10/23/2023	Lake	Well	Active	23-23-W-10	Wet	11/03/2022	794 10.00	0.3 0.10	0.50		

Notes: Laboratory detection limit listed below each result.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Sample Date	Source ID	Source Type	Status	Sample ID	Condition	Last Gen Min Analysis	EC (umhos/cm)	NO_3-N (mg/l)	NH_4-N (mg/l)	TKN (mg/l)	Notes
10/23/2023	McKinley	Well	Active	23-23-W-16	Wet	11/03/2022	787 10.00	0.2 0.10	 0.50		
10/23/2023	Middle	Well	Active	23-23-W-8	Wet	11/03/2022	766 10.00	0.1 0.10	 0.50		
10/23/2023	North	Well	Active	23-23-W-9	Wet	11/03/2022	792 10.00	0.1 0.10	 0.50		
10/23/2023	Shields	Well	Active	23-23-W-14	Wet	11/03/2022	1,130 10.00	0.1 0.10	 0.50		
10/23/2023	Shop	Well	Active	23-23-W-17	Wet	11/03/2022	819 10.00	0.2 0.10	 0.50		
10/23/2023	Shop - Domestic	Well	Active	23-23-W-7	Wet	11/03/2022	862 10.00	0.2 0.10	 0.50		
10/23/2023	South	Well	Active	23-23-W-7	Wet	11/03/2022	700 10.00	< 0.1 0.10	 0.50		
10/23/2023	Yuba	Well	Active	23-23-W-14	Wet	11/03/2022	709 10.00	< 0.1 0.10	 0.50		

UTS - Unable To Sample (well needing repair, power disconnected, no ditch water received, etc.)

Notes: Laboratory detection limit listed below each result.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Water Supply General Minerals Analysis

Required Every Five Years (20% Anually Allowed)

Sample Date	Source ID	Source Type	Sample ID	TDS (mg/l)	CO_3 (mg/l)	HCO_3 (mg/l)	Cl (mg/l)	SO_4-S (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)

Notes: Laboratory detection limit listed below each result.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Soil Samples

Soluable Phosphorus (PO_4-P) required once every five years (20% anually allowed)
Remainder of soil analysis is recommended but not required

Sample Date	Field ID	Sample Location	Sample ID	Last PO_4-P Analysis	Depth 0 to 1 ft					Depth 1 to 2 ft
					NO_3-N (mg/kg)	PO_4-P (mg/kg)	K (AA) (mg/kg)	EC (dS/m)	%OM	NO_3-N (mg/kg)
	00									
	01									
	02									
	03			9/11/2020						
	04			9/11/2020						
	05									
	06			9/11/2020						
	07			9/11/2020						
	08			9/11/2020						
	09									
	10			9/11/2020						
	11			9/11/2020						
	17			9/11/2020						
	18									
	19			9/11/2020						
	20			9/11/2020						
	23			9/11/2020						

Notes: Laboratory detection limit listed below each result.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Plant Tissue Samples
Harvest

Sample Date	Field ID	Crop	Sample Location	Sample ID	Volume % Moisture	Total (% Dry Basis) N	P	K	ASH
05/15/2023	03	Winter Forage		23-23-P-4	62.41	1.61	0.43	1.90	8.99
					1.52	0.050	0.010	0.020	0.67
09/22/2023	03	Corn Silage		23-23-P-26	69.28	1.91	0.20	1.52	4.87
					1.52	0.050	0.010	0.020	0.67
05/15/2023	04	Triticale		23-23-P-5	66.49	1.21	0.29	1.64	6.91
					1.52	0.050	0.010	0.020	0.67
09/22/2023	04	Corn Silage		23-23-P-17	65.62	1.21	0.21	1.47	5.64
					1.52	0.050	0.010	0.020	0.67
05/15/2023	05	Winter Forage		23-23-P-1	63.03	1.96	0.31	2.26	9.41
					1.52	0.050	0.010	0.020	0.67
10/05/2023	05	Corn Silage		23-23-P-31	68.23	1.45	0.33	1.70	5.60
					1.52	0.050	0.010	0.020	0.67
05/15/2023	06	Triticale		23-23-P-12	68.03	2.72	0.35	1.71	7.57
					1.52	0.050	0.010	0.020	0.67
09/22/2023	06	Corn Silage		23-23-P-25	65.65	1.42	0.22	1.04	4.81
					1.52	0.050	0.010	0.020	0.67
05/15/2023	07	Triticale		23-23-P-13	66.07	2.22	0.30	1.96	9.48
					1.52	0.050	0.010	0.020	0.67
09/22/2023	07	Corn Silage		23-23-P-18	69.44	1.38	0.21	1.56	6.21
					1.52	0.050	0.010	0.020	0.67
05/15/2023	08	Triticale		23-23-P-14	68.07	2.24	0.30	1.72	7.77
					1.52	0.050	0.010	0.020	0.67
09/22/2023	08	Corn Silage		23-23-P-23	64.46	1.69	0.17	0.83	4.43
					1.52	0.050	0.010	0.020	0.67
05/15/2023	10	Triticale		23-23-P-15	64.75	2.17	0.32	1.52	7.08
					1.52	0.050	0.010	0.020	0.67
09/22/2023	10	Corn Silage		23-23-P-24	63.64	1.92	0.29	1.00	5.15
					1.52	0.050	0.010	0.020	0.67

Notes: Laboratory detection limit listed below each result.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Sample Date	Field ID	Crop	Sample Location	Sample ID	Volume % Moisture	Total (% Dry Basis) N	P	K	ASH
10/05/2023	17	Corn Silage		23-23-P-32	63.41	1.22	0.33	1.26	5.45
					1.52	0.050	0.010	0.020	0.67
10/05/2023	17	Corn Silage		23-23-P-33	70.67	1.43	0.38	1.81	5.63
					1.52	0.050	0.010	0.020	0.67
05/15/2023	18	Winter Forage		23-23-P-8	67.69	1.43	0.27	1.48	7.38
					1.52	0.050	0.010	0.020	0.67
05/15/2023	18	Winter Forage		23-23-P-9	68.46	1.81	0.28	1.50	7.11
					1.52	0.050	0.010	0.020	0.67
09/22/2023	18	Corn Silage		23-23-P-19	65.07	0.91	0.23	1.34	5.74
					1.52	0.050	0.010	0.020	0.67
09/22/2023	18	Corn Silage		23-23-P-20	70.68	1.06	0.20	1.25	5.59
					1.52	0.050	0.010	0.020	0.67
05/15/2023	20	Winter Forage		23-23-P-10	68.40	1.91	0.31	1.62	8.75
					1.52	0.050	0.010	0.020	0.67
05/15/2023	20	Winter Forage		23-23-P-11	66.25	1.65	0.33	1.48	10.13
					1.52	0.050	0.010	0.020	0.67
05/15/2023	20	Winter Forage		23-23-P-6	63.68	1.38	0.24	1.39	7.43
					1.52	0.050	0.010	0.020	0.67
05/15/2023	20	Winter Forage		23-23-P-7	65.44	1.86	0.25	1.45	7.61
					1.52	0.050	0.010	0.020	0.67
09/22/2023	20	Corn Silage		23-23-P-27	68.89	1.51	0.22	1.28	5.71
					1.52	0.050	0.010	0.020	0.67
09/22/2023	20	Corn Silage		23-23-P-28	67.73	1.31	0.22	1.09	4.72
					1.52	0.050	0.010	0.020	0.67
09/22/2023	20	Corn Silage		23-23-P-29	63.59	0.86	0.22	0.80	4.77
					1.52	0.050	0.010	0.020	0.67
09/22/2023	20	Corn Silage		23-23-P-30	68.53	1.76	0.25	0.94	5.87
					1.52	0.050	0.010	0.020	0.67
05/15/2023	23	Triticale		23-23-P-2	63.03	1.96	0.30	1.98	8.39
					1.52	0.050	0.010	0.020	0.67
05/15/2023	23	Triticale		23-23-P-3	72.26	1.48	0.44	3.25	8.94
					1.52	0.050	0.010	0.020	0.67

Notes: Laboratory detection limit listed below each result.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Sample Date	Field ID	Crop	Sample Location	Sample ID	Volume % Moisture	Total (% Dry Basis) N	P	K	ASH
05/15/2023	23	Triticale		23-23-P-16	68.86	2.84	0.33	1.96	8.95
					1.52	0.050	0.010	0.020	0.67
09/22/2023	23	Corn Silage		23-23-P-21	64.93	2.11	0.19	1.35	6.87
					1.52	0.050	0.010	0.020	0.67
09/22/2023	23	Corn Silage		23-23-P-22	67.56	1.97	0.24	1.21	5.49
					1.52	0.050	0.010	0.020	0.67

Notes: Laboratory detection limit listed below each result.

Dairy Name: Pacheco Dairy Inc

Dairy Address: 1108 N. Plumas
Kerman, CA 93630

Report Period: Jan 01 through Dec 31, 2023

Plant Tissue Samples
Mid-Season - Optional analysis, required only if fertilizing in excess of 1.4 nitrogen balance

Sample Date	Field ID	Sample Location	Description	Sample ID	Leaf %N (dry)	Grain Stem NO_3-N (mg/kg)

Notes: Laboratory detection limit listed below each result.

DELLAVALLE™
LABORATORY INC

Pacheco Dairy
19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23J1562-01	Dairy East (D)	Ag Water	Angel Valle		10/23/2023 8:40
23J1562-02	Field 23 Domestic (D)	Ag Water	Angel Valle		10/23/2023 10:19
23J1562-03	Jerry (D)	Ag Water	Angel Valle		10/23/2023 8:55
23J1562-04	Brian (D)	Ag Water	Angel Valle		10/23/2023 8:58
23J1562-05	Duplex (D)	Ag Water	Angel Valle		10/23/2023 9:54
23J1562-06	Hospital (D)	Ag Water	Angel Valle		10/23/2023 9:57
23J1562-07	Shop (D)	Ag Water	Angel Valle		10/23/2023 9:41
23J1562-08	South	Ag Water	Angel Valle		10/23/2023 10:06
23J1562-09	Middle	Ag Water	Angel Valle		10/23/2023 10:01
23J1562-10	North	Ag Water	Angel Valle		10/23/2023 9:50
23J1562-11	Field 12/Lake	Ag Water	Angel Valle		10/23/2023 10:24
23J1562-12	Field 23	Ag Water	Angel Valle		10/23/2023 10:21
23J1562-13	Field 3/Belmont	Ag Water	Angel Valle		10/23/2023 8:53
23J1562-14	Field 0	Ag Water	Angel Valle		10/23/2023 10:13
23J1562-15	Field 21/Shields	Ag Water	Angel Valle		10/23/2023 9:13
23J1562-16	Field 22/Dakota	Ag Water	Angel Valle		10/23/2023 9:07
23J1562-17	Field 20/Yuba	Ag Water	Angel Valle		10/23/2023 9:22
23J1562-18	Field 18/Butte	Ag Water	Angel Valle		10/23/2023 9:33
23J1562-19	Field 9/Shaw	Ag Water	Angel Valle		10/23/2023 9:38
23J1562-20	Field 14/McKinley	Ag Water	Angel Valle		10/23/2023 9:46
23J1562-21	Dairy South (D)	Ag Water	Angel Valle		10/23/2023 8:43

Default Cooler Temperature on Receipt °C: 0.4

Containers Intact
COC/Labels Agree
Received On Ice

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DELLAVALLE™
LABORATORY INC

Pacheco Dairy
19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Pacheco Dairy
19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results

Sample: Dairy East (D)
23J1562-01 (Water)

Sampled: 10/23/2023 8:40
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.68**	mmhos/cm	0.01	1		10/24/23 17:09	SM 2510 B		BEJ0915
Electrical Conductivity umhos	**682**	umhos/cm	10.0	1		10/24/23 17:09	SM 2510 B		BEJ0915
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 08:40	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/23/23 20:38	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:09	SM 4500-H+	H	BEJ0915
pH	**8.5**	units	1.0	1		10/24/23 17:09	SM 4500-H+	H	BEJ0915

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19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Field 23 Domestic (D)
23J1562-02 (Water)

Sampled: 10/23/2023 10:19
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.68**	mmhos/cm	0.01	1		10/24/23 17:16	SM 2510 B		BEJ0915
Electrical Conductivity umhos	**677**	umhos/cm	10.0	1		10/24/23 17:16	SM 2510 B		BEJ0915
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 10:19	Field		BEJ0938
Nitrate Nitrogen as NO3N	**0.1**	mg/L	0.1	1	10	10/23/23 20:57	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:16	SM 4500-H+	H	BEJ0915
pH	**7.9**	units	1.0	1		10/24/23 17:16	SM 4500-H+	H	BEJ0915

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Pacheco Dairy
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Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Jerry (D)
23J1562-03 (Water)

Sampled: 10/23/2023 8:55
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.56**	mmhos/cm	0.01	1		10/24/23 17:17	SM 2510 B		BEJ0915
Electrical Conductivity umhos	**564**	umhos/cm	10.0	1		10/24/23 17:17	SM 2510 B		BEJ0915
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 08:55	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/23/23 21:17	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:17	SM 4500-H+	H	BEJ0915
pH	**8.4**	units	1.0	1		10/24/23 17:17	SM 4500-H+	H	BEJ0915

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Pacheco Dairy
19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Brian (D)
23J1562-04 (Water)

Sampled: 10/23/2023 8:58
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.66**	mmhos/cm	0.01	1		10/24/23 17:19	SM 2510 B		BEJ0915
Electrical Conductivity umhos	**661**	umhos/cm	10.0	1		10/24/23 17:19	SM 2510 B		BEJ0915
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 08:58	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/23/23 21:37	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:19	SM 4500-H+	H	BEJ0915
pH	**8.3**	units	1.0	1		10/24/23 17:19	SM 4500-H+	H	BEJ0915

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Pacheco Dairy
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Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Duplex (D)
23J1562-05 (Water)

Sampled: 10/23/2023 9:54
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.64**	mmhos/cm	0.01	1		10/24/23 17:20	SM 2510 B		BEJ0915
Electrical Conductivity umhos	**645**	umhos/cm	10.0	1		10/24/23 17:20	SM 2510 B		BEJ0915
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 09:54	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/23/23 21:57	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:20	SM 4500-H+	H	BEJ0915
pH	**8.4**	units	1.0	1		10/24/23 17:20	SM 4500-H+	H	BEJ0915

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Pacheco Dairy
19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Hospital (D)
23J1562-06 (Water)

Sampled: 10/23/2023 9:57
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.58**	mmhos/cm	0.01	1		10/24/23 17:21	SM 2510 B		BEJ0915
Electrical Conductivity umhos	**578**	umhos/cm	10.0	1		10/24/23 17:21	SM 2510 B		BEJ0915
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 09:57	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/23/23 22:16	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:21	SM 4500-H+	H	BEJ0915
pH	**8.2**	units	1.0	1		10/24/23 17:21	SM 4500-H+	H	BEJ0915

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Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Shop (D)
23J1562-07 (Water)

Sampled: 10/23/2023 9:41
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.86**	mmhos/cm	0.01	1		10/24/23 17:22	SM 2510 B		BEJ0915
Electrical Conductivity umhos	**862**	umhos/cm	10.0	1		10/24/23 17:22	SM 2510 B		BEJ0915
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 09:41	Field		BEJ0938
Nitrate Nitrogen as NO3N	**0.2**	mg/L	0.1	1	10	10/23/23 22:36	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:22	SM 4500-H+	H	BEJ0915
pH	**7.9**	units	1.0	1		10/24/23 17:22	SM 4500-H+	H	BEJ0915

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Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: South
23J1562-08 (Water)

Sampled: 10/23/2023 10:06
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.70**	mmhos/cm	0.01	1		10/24/23 17:24	SM 2510 B		BEJ0915
Electrical Conductivity umhos	**700**	umhos/cm	10.0	1		10/24/23 17:24	SM 2510 B		BEJ0915
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 10:06	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/23/23 22:56	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:24	SM 4500-H+	H	BEJ0915
pH	**8.2**	units	1.0	1		10/24/23 17:24	SM 4500-H+	H	BEJ0915

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LABORATORY INC

Pacheco Dairy
19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Middle
23J1562-09 (Water)

Sampled: 10/23/2023 10:01
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.77**	mmhos/cm	0.01	1		10/24/23 17:25	SM 2510 B		BEJ0915
Electrical Conductivity umhos	**766**	umhos/cm	10.0	1		10/24/23 17:25	SM 2510 B		BEJ0915
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 10:01	Field		BEJ0938
Nitrate Nitrogen as NO3N	**0.1**	mg/L	0.1	1	10	10/23/23 23:15	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:25	SM 4500-H+	H	BEJ0915
pH	**7.9**	units	1.0	1		10/24/23 17:25	SM 4500-H+	H	BEJ0915

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Pacheco Dairy
19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: North
23J1562-10 (Water)

Sampled: 10/23/2023 9:50
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.79**	mmhos/cm	0.01	1		10/24/23 17:26	SM 2510 B		BEJ0915
Electrical Conductivity umhos	**792**	umhos/cm	10.0	1		10/24/23 17:26	SM 2510 B		BEJ0915
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 09:50	Field		BEJ0938
Nitrate Nitrogen as NO3N	**0.1**	mg/L	0.1	1	10	10/23/23 23:35	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:26	SM 4500-H+	H	BEJ0915
pH	**7.9**	units	1.0	1		10/24/23 17:26	SM 4500-H+	H	BEJ0915

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Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Field 12/Lake
23J1562-11 (Water)

Sampled: 10/23/2023 10:24
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.79**	mmhos/cm	0.01	1		10/24/23 17:51	SM 2510 B		BEJ0928
Electrical Conductivity umhos	**794**	umhos/cm	10.0	1		10/24/23 17:51	SM 2510 B		BEJ0928
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 10:24	Field		BEJ0938
Nitrate Nitrogen as NO3N	**0.3**	mg/L	0.1	1	10	10/24/23 02:14	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:51	SM 4500-H+	H	BEJ0928
pH	**8.0**	units	1.0	1		10/24/23 17:51	SM 4500-H+	H	BEJ0928

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19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Field 23
23J1562-12 (Water)

Sampled: 10/23/2023 10:21
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.70**	mmhos/cm	0.01	1		10/24/23 17:52	SM 2510 B		BEJ0928
Electrical Conductivity umhos	**698**	umhos/cm	10.0	1		10/24/23 17:52	SM 2510 B		BEJ0928
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 10:21	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/24/23 02:34	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:52	SM 4500-H+	H	BEJ0928
pH	**7.9**	units	1.0	1		10/24/23 17:52	SM 4500-H+	H	BEJ0928

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19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Field 3/Belmont
23J1562-13 (Water)

Sampled: 10/23/2023 8:53
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.55**	mmhos/cm	0.01	1		10/24/23 17:53	SM 2510 B		BEJ0928
Electrical Conductivity umhos	**552**	umhos/cm	10.0	1		10/24/23 17:53	SM 2510 B		BEJ0928
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 08:53	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/24/23 02:53	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:53	SM 4500-H+	H	BEJ0928
pH	**8.4**	units	1.0	1		10/24/23 17:53	SM 4500-H+	H	BEJ0928

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Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Field 0
23J1562-14 (Water)

Sampled: 10/23/2023 10:13
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.67**	mmhos/cm	0.01	1		10/24/23 17:55	SM 2510 B		BEJ0928
Electrical Conductivity umhos	**674**	umhos/cm	10.0	1		10/24/23 17:55	SM 2510 B		BEJ0928
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 10:13	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/24/23 03:13	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:55	SM 4500-H+	H	BEJ0928
pH	**8.6**	units	1.0	1		10/24/23 17:55	SM 4500-H+	H	BEJ0928

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19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Field 21/Shields
23J1562-15 (Water)

Sampled: 10/23/2023 9:13
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.13**	mmhos/cm	0.01	1		10/24/23 17:56	SM 2510 B		BEJ0928
Electrical Conductivity umhos	**1130**	umhos/cm	10.0	1		10/24/23 17:56	SM 2510 B		BEJ0928
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 09:13	Field		BEJ0938
Nitrate Nitrogen as NO3N	**0.1**	mg/L	0.1	1	10	10/24/23 03:33	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:56	SM 4500-H+	H	BEJ0928
pH	**8.0**	units	1.0	1		10/24/23 17:56	SM 4500-H+	H	BEJ0928

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Pacheco Dairy
19950 W Belmont
Kerman, CA 93630

Account# 00-0015840
Account Manager: Ben Nydam
Submitted By: Brian Pacheco

Received: 10/23/2023 14:26
Reported: 10/25/2023 14:23

Sample Results
(Continued)

Sample: Field 22/Dakota
23J1562-16 (Water)

Sampled: 10/23/2023 9:07
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.24**	mmhos/cm	0.01	1		10/24/23 17:57	SM 2510 B		BEJ0928
Electrical Conductivity umhos	**239**	umhos/cm	10.0	1		10/24/23 17:57	SM 2510 B		BEJ0928
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 09:07	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/24/23 03:53	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:57	SM 4500-H+	H	BEJ0928
pH	**8.2**	units	1.0	1		10/24/23 17:57	SM 4500-H+	H	BEJ0928

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Submitted By: Brian Pacheco

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Sample Results
(Continued)

Sample: Field 20/Yuba
23J1562-17 (Water)

Sampled: 10/23/2023 9:22
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.71**	mmhos/cm	0.01	1		10/24/23 17:58	SM 2510 B		BEJ0928
Electrical Conductivity umhos	**709**	umhos/cm	10.0	1		10/24/23 17:58	SM 2510 B		BEJ0928
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 09:22	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/24/23 04:13	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 17:58	SM 4500-H+	H	BEJ0928
pH	**8.3**	units	1.0	1		10/24/23 17:58	SM 4500-H+	H	BEJ0928

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Sample Results
(Continued)

Sample: Field 18/Butte
23J1562-18 (Water)

Sampled: 10/23/2023 9:33
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.55**	mmhos/cm	0.01	1		10/24/23 18:00	SM 2510 B		BEJ0928
Electrical Conductivity umhos	**548**	umhos/cm	10.0	1		10/24/23 18:00	SM 2510 B		BEJ0928
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 09:33	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/24/23 04:32	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 18:00	SM 4500-H+	H	BEJ0928
pH	**8.4**	units	1.0	1		10/24/23 18:00	SM 4500-H+	H	BEJ0928

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Sample Results
(Continued)

Sample: Field 9/Shaw
23J1562-19 (Water)

Sampled: 10/23/2023 9:38
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.82**	mmhos/cm	0.01	1		10/24/23 18:01	SM 2510 B		BEJ0928
Electrical Conductivity umhos	**819**	umhos/cm	10.0	1		10/24/23 18:01	SM 2510 B		BEJ0928
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 09:38	Field		BEJ0938
Nitrate Nitrogen as NO3N	**0.2**	mg/L	0.1	1	10	10/24/23 04:52	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 18:01	SM 4500-H+	H	BEJ0928
pH	**8.0**	units	1.0	1		10/24/23 18:01	SM 4500-H+	H	BEJ0928

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Sample Results
(Continued)

Sample: Field 14/McKinley
23J1562-20 (Water)

Sampled: 10/23/2023 9:46
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.79**	mmhos/cm	0.01	1		10/24/23 18:02	SM 2510 B		BEJ0928
Electrical Conductivity umhos	**787**	umhos/cm	10.0	1		10/24/23 18:02	SM 2510 B		BEJ0928
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 09:46	Field		BEJ0938
Nitrate Nitrogen as NO3N	**0.2**	mg/L	0.1	1	10	10/24/23 05:12	EPA 300.0		BEJ0905
Temperature	**25.0**	units	0.0	1		10/24/23 18:02	SM 4500-H+	H	BEJ0928
pH	**7.9**	units	1.0	1		10/24/23 18:02	SM 4500-H+	H	BEJ0928

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Sample Results
(Continued)

Sample: Dairy South (D)
23J1562-21 (Water)

Sampled: 10/23/2023 8:43
Sampled By: Angel Valle

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.57**	mmhos/cm	0.01	1		10/24/23 18:09	SM 2510 B		BEJ0928
Electrical Conductivity umhos	**568**	umhos/cm	10.0	1		10/24/23 18:09	SM 2510 B		BEJ0928
Ammonia (as N)	*	mg/L	0.00	1		10/23/23 08:43	Field		BEJ0938
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	10/24/23 04:00	EPA 300.0		BEJ0906
Temperature	**25.0**	units	0.0	1		10/24/23 18:09	SM 4500-H+	H	BEJ0928
pH	**8.3**	units	1.0	1		10/24/23 18:09	SM 4500-H+	H	BEJ0928

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Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEJ0905										
Blank (BEJ0905-BLK1)					Prepared & Analyzed: 10/23/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEJ0905-BLK2)					Prepared: 10/23/2023 Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEJ0905-BLK3)					Prepared: 10/23/2023 Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEJ0905-BS1)					Prepared: 10/23/2023 Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
LCS (BEJ0905-BS2)					Prepared: 10/23/2023 Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		103	90-110		
Duplicate (BEJ0905-DUP1)		**Source: 23J1562-03**			Prepared: 10/23/2023 Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	0.09		0.1	mg/L		0.08			4.60	10
Duplicate (BEJ0905-DUP2)		**Source: 23J1562-16**			Prepared: 10/23/2023 Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	0.03		0.1	mg/L		0.03			3.17	10
Matrix Spike (BEJ0905-MS1)		**Source: 23J1562-03**			Prepared: 10/23/2023 Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000	0.08	95.8	90-110		
Matrix Spike (BEJ0905-MS2)		**Source: 23J1562-16**			Prepared: 10/23/2023 Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000	0.03	97.4	90-110		
Reference (BEJ0905-SRM1)					Prepared & Analyzed: 10/23/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		97.9	90-110		
Reference (BEJ0905-SRM2)					Prepared: 10/23/2023 Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.1	90-110		
Reference (BEJ0905-SRM3)					Prepared: 10/23/2023 Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		98.8	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEJ0906										
Blank (BEJ0906-BLK1)					Prepared & Analyzed: 10/23/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEJ0906-BLK2)					Prepared & Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEJ0906-BLK3)					Prepared & Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEJ0906-BS1)					Prepared & Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		103	90-110		
LCS (BEJ0906-BS2)					Prepared & Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Duplicate (BEJ0906-DUP1)		**Source: 23J1519-01**			Prepared & Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	0.2		0.1	mg/L		0.2			0.851	10
Duplicate (BEJ0906-DUP2)		**Source: 23J1562-21**			Prepared & Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	0.09		0.1	mg/L		0.09			0.00	10
Matrix Spike (BEJ0906-MS1)		**Source: 23J1519-01**			Prepared & Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	5.5		0.1	mg/L	5.000	0.2	105	90-110		
Matrix Spike (BEJ0906-MS2)		**Source: 23J1562-21**			Prepared & Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000	0.09	98.3	90-110		
Reference (BEJ0906-SRM1)					Prepared & Analyzed: 10/23/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Reference (BEJ0906-SRM2)					Prepared & Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	10.3			mg/L	10.00		103	90-110		
Reference (BEJ0906-SRM3)					Prepared & Analyzed: 10/24/2023					
Nitrate Nitrogen as NO3N	10.4			mg/L	10.00		104	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEJ0915										
Blank (BEJ0915-BLK1)					Prepared & Analyzed: 10/24/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
pH	5.7		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEJ0915-BLK2)					Prepared & Analyzed: 10/24/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.9		1.0	units						
Blank (BEJ0915-BLK3)					Prepared & Analyzed: 10/24/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
pH	6.0		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEJ0915-DUP1)		**Source: 23J1562-01**			Prepared & Analyzed: 10/24/2023					
Electrical Conductivity	0.67		0.01	mmhos/cm		0.68			1.21	10
pH	8.5		1.0	units		8.5			0.235	10
Electrical Conductivity umhos	674		10.0	umhos/cm		682			1.21	10
Duplicate (BEJ0915-DUP2)		**Source: 23J1562-10**			Prepared & Analyzed: 10/24/2023					
Electrical Conductivity	0.79		0.01	mmhos/cm		0.79			0.0757	10
Electrical Conductivity umhos	793		10.0	umhos/cm		792			0.0757	10
pH	7.8		1.0	units		7.9			0.762	10
Reference (BEJ0915-SRM1)					Prepared & Analyzed: 10/24/2023					
Electrical Conductivity	496			umhos/cm	538.0		92.2	90-110		
Reference (BEJ0915-SRM2)					Prepared & Analyzed: 10/24/2023					
pH	5.8			units	5.820		100	28178-101.71		
Reference (BEJ0915-SRM3)					Prepared & Analyzed: 10/24/2023					
Electrical Conductivity	984			umhos/cm	1000		98.4	90-110		
Electrical Conductivity umhos	984			umhos/cm	1000		98.4	90-110		
Reference (BEJ0915-SRM4)					Prepared & Analyzed: 10/24/2023					
Electrical Conductivity	988			umhos/cm	1000		98.8	90-110		
Electrical Conductivity umhos	988			umhos/cm	1000		98.8	90-110		
Reference (BEJ0915-SRM5)					Prepared & Analyzed: 10/24/2023					
Electrical Conductivity	991			umhos/cm	1000		99.1	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEJ0915 (Continued)										
Reference (BEJ0915-SRM5)					Prepared & Analyzed: 10/24/2023					
Electrical Conductivity umhos	991			umhos/cm	1000		99.1	90-110		
Reference (BEJ0915-SRM6)					Prepared & Analyzed: 10/24/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEJ0915-SRM7)					Prepared & Analyzed: 10/24/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEJ0915-SRM8)					Prepared & Analyzed: 10/24/2023					
pH	4.0			units	4.000		101	97.5-102.5		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEJ0928										
Blank (BEJ0928-BLK1)					Prepared: 10/23/2023	Analyzed: 10/24/2023				
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.4		1.0	units						
Blank (BEJ0928-BLK2)					Prepared: 10/23/2023	Analyzed: 10/24/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.8		1.0	units						
Duplicate (BEJ0928-DUP1)		**Source: 23J1562-20**			Prepared: 10/23/2023	Analyzed: 10/24/2023				
Electrical Conductivity	0.79		0.01	mmhos/cm		0.79			0.0381	10
Electrical Conductivity umhos	787		10.0	umhos/cm		787			0.0381	10
pH	7.8		1.0	units		7.9			1.79	10
Duplicate (BEJ0928-DUP2)		**Source: 23J1562-21**			Prepared: 10/23/2023	Analyzed: 10/24/2023				
Electrical Conductivity	0.57		0.01	mmhos/cm		0.57			0.211	10
pH	8.4		1.0	units		8.3			1.19	10
Electrical Conductivity umhos	567		10.0	umhos/cm		568			0.211	10
Reference (BEJ0928-SRM1)					Prepared: 10/23/2023	Analyzed: 10/24/2023				
Electrical Conductivity	537			umhos/cm	538.0		99.8	90-110		
Reference (BEJ0928-SRM2)					Prepared: 10/23/2023	Analyzed: 10/24/2023				
pH	5.9			units	5.820		101	28178-101.7		
Reference (BEJ0928-SRM3)					Prepared: 10/23/2023	Analyzed: 10/24/2023				
Electrical Conductivity	1000			umhos/cm	1000		100	90-110		
Electrical Conductivity umhos	1000			umhos/cm	1000		100	90-110		
Reference (BEJ0928-SRM4)					Prepared: 10/23/2023	Analyzed: 10/24/2023				
Electrical Conductivity	1000			umhos/cm	1000		100	90-110		
Electrical Conductivity umhos	1000			umhos/cm	1000		100	90-110		
Reference (BEJ0928-SRM5)					Prepared: 10/23/2023	Analyzed: 10/24/2023				
Electrical Conductivity	1000			umhos/cm	1000		100	90-110		
Electrical Conductivity umhos	1000			umhos/cm	1000		100	90-110		
Reference (BEJ0928-SRM6)					Prepared: 10/23/2023	Analyzed: 10/24/2023				
pH	4.1			units	4.000		102	97.5-102.5		
Reference (BEJ0928-SRM7)					Prepared: 10/23/2023	Analyzed: 10/24/2023				

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEJ0928 (Continued)										
Reference (BEJ0928-SRM7)					Prepared: 10/23/2023	Analyzed: 10/24/2023				
pH	4.1			units	4.000		102	97.5-102.5		
Reference (BEJ0928-SRM8)					Prepared: 10/23/2023	Analyzed: 10/24/2023				
pH	4.1			units	4.000		102	97.5-102.5		

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10/23/23 14:26 23J1562

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

EPS

Purchase Order No | Bill To: 15840 Acct # | 13 Cons #

No. Samples: 21 ~~10~~ No of Bottles: 21

Results Need By

Water Type: [ ] Drinking Water [ ] Wastewater [X] Ag Water [ ] Groundwater [ ] Monitoring Well

Name: Pacheco Dairy

Other:

Address: 19950 W Belmont

Analysis and Bottles Required: (*Please indicate Analysis*)

City: Kerman **State:** CA **Zip:** 93630

DWW1

Telephone: **Fax:**

Cell/Email:

COPY TO:

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 12/22/2023
Location: Laboratory

REQUESTED BY: Brian Pacheco

PROJECT:

CROP:

[ ] Co. Health Dept

[ ] RWQCB [ ] Copy of Chain

[ ] State Forms [ ] QA/QC Documents

Sampled By: DLI-AV

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field EC
1	North	10-23-23	9:50	-0.8	
2	Field 12/Lake		10:24	0.7	
3	Field 23		10:21	0.3	
4	Field 3/Belmont		8:53	-0.3	
5	Field 0		10:13	-0.5	
6	Field 21/Shields		9:13	-0.3	
7	Field 22/Dakota		9:07	-0.6	
8	Field 20/Yuba		9:22	-0.3	
9	Field 18/Butte		9:33	-0.1	
10	Field 9/Shaw		9:38	0.4	

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	DLI	10-23-23 8:40	10-23-23 14:20
Second	MM	DLI	10/23 14:27	
Third				
Fourth				

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:

Sampling hrs

Miles

Consulting

Shipping

$ In

$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No

19 20

10/23/23 14:26 23J1562

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Purchase Order No | Bill To: Acct # 15840 | Cons # 13

No. Samples: 21 ~~10~~ No of Bottles: 21

Results Need By

Water Type: [ ] Drinking Water [ ] Wastewater [X] Ag Water [ ] Groundwater [ ] Monitoring Well

Name: Pacheco Dairy

Other:

Address: 19950 W Belmont

Analysis and Bottles Required: (*Please indicate Analysis*)

City: Kerman **State:** CA **Zip:** 93630

DWW1

Telephone: **Fax:**

Cell/Email:

COPY TO:

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 12/22/2023
Location: Laboratory

REQUESTED BY: Brian Pacheco

PROJECT:

CROP:

[ ] Co. Health Dept

[ ] RWQCB [ ] Copy of Chain

[ ] State Forms [ ] QA/QC Documents

Sampled By: DLI-AU

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field EC
1	Dairy West (D) (Not in service)				
2	Dairy East (D)	10-23-23	8:40	0.4	
3	Field 23 Domestic (D)		10:19	-0.5	
4	Jerry (D)		8:55	-0.4	
5	Brian (D)		8:58	-0.2	
6	Duplex (D)		9:54	-0.5	
7	Hospital (D)		9:57	-0.4	
8	Shop (D)		9:41	-0.1	
9	South		10:06	0.2	
10	Middle		10:01	-0.4	

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[illegible]	DLI	10-23-23 8:40	10-23-23 11:20
Second	MM	DLI	10/23 14:26	
Third				
Fourth				

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.

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Invoicing Information:

Sampling hrs

Miles

Consulting

Shipping

$ In

$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

[✓] Yes [ ] No

Pg 1 of 2

10/23/23 14:26 23J1562

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☑ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☑ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

Type of Container(s) Received		Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1	1	1	1	1	1	1	1	
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_8$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

DLI
SEMI-OUT

10/23/23 14:26 23J1562

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☑ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☑ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1	1	1	1	1	1	1	1	1
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

DLI SEND OUT

10/23/23 14:26 23J1562

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Purchase Order No | Bill To: Acct # 15840 | Cons # 13

No. Samples: 21 | No of Bottles: 21

Results Need By

Water Type: [ ] Drinking Water [ ] Wastewater [X] Ag Water [ ] Groundwater [ ] Monitoring Well

Name: Pacheco Dairy

Other:

Address: 19950 W Belmont

Analysis and Bottles Required: (*Please indicate Analysis*)

City: Kerman **State:** CA **Zip:** 93630

DWW1

Telephone: **Fax:**

Cell/Email:

COPY TO:

REQUESTED BY: Brian Pacheco

PROJECT:

CROP:

[ ] Co. Health Dept

[ ] RWQCB [ ] Copy of Chain

[ ] State Forms [ ] QA/QC Documents

Sampled By: DLI-AU

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field EC
1	Field 14/McKinley	10-23-23	9:46	-1.4	
2	Dairy South(D)	/	8:43	-0.1	
3					
4					
5					
6					
7					
8					
9					
10					

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 12/22/2023
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[illegible]	DLI	10-23-23 8:40	10-23-23 14:20
Second	MM	DLI	10/23 14:27	
Third				
Fourth				

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Invoicing Information:

Sampling hrs

Miles

Consulting

Shipping

$ In

$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

[ ] Yes [ ] No

10/23/23 14:26 23J1562

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☑ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☑ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

DLI SEND OUT

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / (Farmer) / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennesoa Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

(Manure)/Process Wastewater Destination Address or Assessor's Parcel Number:

McKinley + Plumas (Shakers Place) (Number and Street) Kerman (City) 93630 (Zip Code) 015-091-105 (Assessor's Parcel Number)

Dates Hauled: February 21-23 + March 4-6 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 454.30 (Tons) or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennedon Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

McKinley + Plumas (Stokkens) (Number and Street) Kerman (City) 93630 (Zip Code) 015-091-145 (Assessor's Parcel Number)

Dates Hauled: September 12, 2023 + October 7, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 433.90 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennesson Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Butte + Dakota (Number and Street) Kerman (City) 93630 (Zip Code) 015-240-035 (Assessor's Parcel Number)

Dates Hauled: September 16-21 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 402.48 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / (Farmer) / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennedon Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

(Manure)/Process Wastewater Destination Address or Assessor's Parcel Number:

Clinton + Plumas (NWC) (Number and Street) Kerman (City) 93630 (Zip Code) 015-080-075 (Assessor's Parcel Number)

Dates Hauled: November 11 + 13 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 150 ~~60~~ (Tons) or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / (Farmer) / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennesson Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

(Manure)/Process Wastewater Destination Address or Assessor's Parcel Number:

Clinton + Plumas (SWC) (Number and Street) Kerman (City) 93630 (Zip Code) 015-080-18s (Assessor's Parcel Number)

Dates Hauled: November 9-13 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 146.24 (Tons) or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennesoa Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Plumas + Ashlan (SWC) (Number and Street) Kerman (City) 93630 (Zip Code) 015-040-445 (Assessor's Parcel Number)

Dates Hauled: October 23, 2023 + November 8, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 244.99 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / (Farmer) / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennesson Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

(Manure)/Process Wastewater Destination Address or Assessor's Parcel Number:

Ashlan + Plumas (SEC) (Number and Street) Kerman (City) 93630 (Zip Code) 015-040-1105 (Assessor's Parcel Number)

Dates Hauled: September 28, 2023 + October 18, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 380.29 (Tons) or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennison Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Clinton + Butte (NWC) (Number and Street) Kerman (City) 93630 (Zip Code) 015-080-055 (Assessor's Parcel Number)

Dates Hauled: November 10, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 145.58 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kenneson Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Clinton - Lake (Number and Street) Kerman (City) 93630 (Zip Code) 015-091-045 (Assessor's Parcel Number)

Dates Hauled: September 22, 2023 + October 26, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 310.16 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kenneson Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Adrian + Lake (Number and Street) Kerman (City) 93630 (Zip Code) 015-040-57s (Assessor's Parcel Number)

Dates Hauled: September 23, 2023 + October 12, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 430.33 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / (Farmer) / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennesson Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

(Manure)/Process Wastewater Destination Address or Assessor's Parcel Number:

Plumas Ave. Steve Dees (Number and Street) Kerman (City) 93630 (Zip Code) 015-040-425 (Assessor's Parcel Number)

Dates Hauled: October 12, 2023 + October 20, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 244.34 (Tons) or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / (Farmer) / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kinnerson Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

(Manure)/Process Wastewater Destination Address or Assessor's Parcel Number:

Lake + Shields (Number and Street) Kerman (City) 93630 (Zip Code) 015-091-01 (Assessor's Parcel Number)

Dates Hauled: October 25, 2023 + November 8, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 271.98 (tons) or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennedy Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Shields + Lake (Spolsadoff) (Number and Street) Kerman (City) 93630 (Zip Code) 015-080-115 (Assessor's Parcel Number)

Dates Hauled: October 21 + 23, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 148.98 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / (Farmer) / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennesso Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

(Manure)/Process Wastewater Destination Address or Assessor's Parcel Number:

Ave 5 1/2 (Number and Street) Madera (City) 93637 (Zip Code) 40-131-04 (Assessor's Parcel Number)

Dates Hauled: November 26, 2023 + December 8, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 337.00 (Tons) or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Kennedy Farms (Name) 2554 N. Lake Ave. (Number and Street) Kerman (City) 93630 (Zip Code) (559) 567-6012 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

400 Whitesbridge Rd Jones Place (Number and Street) Kerman (City) 93630 (Zip Code) 020-27-10 (Assessor's Parcel Number)

Dates Hauled: October 17, 2023 + November 25, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 2958.42 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Bill Buchnoff (Name) 15306 W. Belmont (Number and Street) Kerman (City) 93630 (Zip Code) 559-846-6148 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Belmont + Del Norte (Number and Street) Kerman (City) 93630 (Zip Code) 020-09-028 (Assessor's Parcel Number)

Dates Hauled: March 11 + 12, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 199.14 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

P. Mendes Farms (Name) 15829 W. McKinley (Number and Street) Kerman (City) 93630 (Zip Code) 559-840-9141 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

McKinley + Humboldt (Number and Street) Kerman (City) 93630 (Zip Code) 015-301-445 (Assessor's Parcel Number)

Dates Hauled: March 19, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 142.84 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / (Farmer) / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Satrasi Bros Ranch (Name) 2200 W. Shields (Number and Street) Kerman (City) 93630 (Zip Code) 559-846-7045 (Phone Number)

(Manure)/Process Wastewater Destination Address or Assessor's Parcel Number:

Shield Ave. Shop (Number and Street) Kerman (City) 93630 (Zip Code) 015-070-345 (Assessor's Parcel Number)

Dates Hauled: February 11 + 17 + February 18-20 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 556.28 (Tons) or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / (Farmer) / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Satriasni Bros Ranch (Name) 2200 W. Shields (Number and Street) Kerman (City) 93630 (Zip Code) 559-846-7045 (Phone Number)

(Manure)/Process Wastewater Destination Address or Assessor's Parcel Number:

Shields Ave Shop (Number and Street) Kerman (City) 93630 (Zip Code) 015-070-345 (Assessor's Parcel Number)

Dates Hauled: November 14 + 27, 2023 + November 29, December 11, 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 974.63 (Tons) or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Satkashi Bros Ranch (Name) 2200 W. Shields (Number and Street) Kerman (City) 93630 (Zip Code) 559-846-7045 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

James Rd + Shields (Number and Street) Kerman (City) 93630 (Zip Code) 015-030-215 (Assessor's Parcel Number)

Dates Hauled: November 13+14 + December 13+14 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 380.10 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Brian Pacheco

Name of Dairy Facility: Pacheco Dairy Inc.

Facility Address: 1108 N. Plumas (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person Name and Phone Number: Brian Pacheco (Name) (559) 846-9686 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Alex Buchnoff & Sons

Address of Hauling Company /Person: 1395 N. Madera Avenue (Number and Street) Kerman (City) 93630 (Zip Code)

Contact Person: Morrie Buchnoff (Name) (559) 978-0685 (Phone Number)

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Steve Buchnoff (Name) 15209 W. Olive (Number and Street) Kerman (City) 93630 (Zip Code) 559-908-7281 (Phone Number)

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Madera + Olive (Number and Street) Kerman (City) 93630 (Zip Code) 015-315-285 (Assessor's Parcel Number)

Dates Hauled: March 15 + 17. 2023

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 216.27 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: Scale Weights

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:
Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

____ Yes _____ No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.
_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:
I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.

Operator's Signature: [signature] Date: 6-12-24

Hauler's Signature: Mario Buchoff Date: 6-12-24