2023 ANNUAL REPORT

Prepared for

Endeavor Gold Dairy

21573 Rd 28
Tulare CA 93274

Tulare County

January 01 through December 31, 2023

Prepared by:

EST. 1968
PROVOST& PRITCHARD
CONSULTING GROUP
An Employee Owned Company

130 N. Garden Street
Visalia, CA 93291-6263
Phone: (559) 636-1166
Fax: (559) 636-1177
www.ppeng.com

2023 ANNUAL REPORT

Endeavor Gold Dairy

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: _____

Print: _____

Title: _____

Date: _____

Dairy Operator

☒ Owner is also the Operator

Signature: Manuel Monteiro

Print: Manuel D Monteiro

Title: Owner

Date: 6-21-2024

Facility Configuration Changes or Information about this Report

Nothing significant to report

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	1,509	0	1,537	0	1,400	80.0	Holstein
Dry Cows	208	0	212	0	1,600		Holstein
Bred Heifers 15-24 Months	743	0	757	0	1,160		Holstein
Heifers 7-14 Months	595	0	606	0	685		Holstein
Calves 4-6 Months	223	0	227	0			Holstein
Calves 0-3 Months	0	0	0	0			Holstein
Other type of commercial animals							

Number of months the dairy was occupied: 12

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	28,469	1,450	246	321
Dry Cows	2,288	104	14	69
Bred Heifers 15-24 Months	7,133	282	41	
Heifers 7-14 Months	3,540	123	20	
Calves 4-6 Months	697	29	4	
Calves 0-3 Months	0	0	0	
Other type of commercial animals				
Total Pounds for report period:		725,636	118,585	142,203
Total tons for report period:	7,688			

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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
0	0	0	0	0	0

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
17,600	50,779	9,137	61,432	651,203

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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
0	0	0	0	0	0

Estimated Amount of Total Wastewater And Nutrients Applied

Total Gallons of Process Wastewater Applied (1,000 gals.)	Total lbs Applied			
	Nitrogen	Phosphorus	Potassium	Salts
17,600	50,779	9,137	61,432	651,203

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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
0	0	0	0	0	0

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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: 790.62

APN	County	Acres	Land Use	APN Not Part of Land Application Area
155-090-004	Tulare	160.00	Cropland	
155-110-010	Tulare	79.33	Cropland	
155-110-011	Tulare	39.07	Cropland	
155-120-002	Tulare	160.00	Cropland	
155-140-001	Tulare	158.00	Cropland	
155-180-001	Tulare	20.00	Dairy Site	
155-180-005	Tulare	0.60	Residential	Not a Part
155-180-006	Tulare	58.75	Dairy Site	
155-190-003	Tulare	40.00	Cropland	
155-190-004	Tulare	74.87	Cropland	

Total Land Application Areas For Manure And Wastewater

Total Land Application Area Acres: 642.0

Total Acres With Manure Applied For This Report: 350.0

Total Acres Without Manure Applied For This Report: 292.0

Field ID	Acres	APN	Type of Waste Applied For This Report	Field Not Part of Land Application Area
1-13	25.0	155-140-001	None	

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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
1-14	75.0	155-140-001	None	
1-15	57.0	155-140-001	None	
1-16	35.0	155-090-004	Liquid	
1-17	20.0	155-090-004	Liquid	
1-18	77.0	155-090-004 155-120-002	Liquid	
1-19	33.0	155-090-004 155-120-002	Liquid	
1-20	57.0	155-120-002	None	
1-21	78.0	155-120-002	None	
1-23	60.0	155-190-004	Liquid	
1-24	27.0	155-190-003 155-190-004	Liquid	
1-25	20.0	155-190-003	Liquid	
1-29	78.0	155-110-010 155-110-011	Liquid	

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-13**
Crop	**Pistachios**
Expected Yield (tons/ac)	0
Acres	25
Start Date	11/01/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	13
Lagoon Water	
Total Applied	
PAN Applied	10
Irrigation Source	0
Atmospheric	
Removal	
Planned Harvest	
Actual Harvest	
Balance Ratio	
By Crop	
Total	0.00
PAN	22.58
By Field	
Total	0.00
PAN	22.58
By Farm	
Total	0.83
PAN	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-14**
Crop	**Pistachios**
Expected Yield (tons/ac)	0
Acres	75
Start Date	11/01/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	1
Lagoon Water	
Total Applied	
PAN Applied	13
Irrigation Source	0
Atmospheric	
Removal	
Planned Harvest	
Actual Harvest	
Balance Ratio	
By Crop	
Total	0.00
PAN	14.02
By Field	
Total	0.00
PAN	14.02
By Farm	
Total	0.83
PAN	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-15**
Crop	**Pistachios**
Expected Yield (tons/ac)	8
Acres	57
Start Date	11/01/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	11
Lagoon Water	
Total Applied	
PAN Applied	0
Irrigation Source	0
Atmospheric	14
Removal	
Planned Harvest	449
Actual Harvest	
Balance Ratio	
By Crop	
Total	0.03
PAN	0.06
By Field	
Total	0.03
PAN	0.06
By Farm	
Total	0.83
PAN	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-16**	**1-16**
Crop	**Wheat Silage**	**Corn Silage**
Expected Yield (tons/ac)	20	30
Acres	35	35
Start Date	10/19/2022	6/02/2023
Applications		
Commercial		100
Solid Manure		
Total Applied		
PAN Applied	8	5
Lagoon Water		
Total Applied	138	100
PAN Applied	93	86
Irrigation Source	69	0
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	169	183
Balance Ratio		
By Crop		
Total	1.27	1.13
PAN	1.05	1.08
By Field		
Total	1.20	1.20
PAN	1.06	1.06
By Farm		
Total	0.83	0.83
PAN	0.78	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-17**	**1-17**
Crop	**Wheat Silage**	**Corn Silage**
Expected Yield (tons/ac)	20	30
Acres	20	20
Start Date	10/12/2022	5/29/2023
Applications		
Commercial		100
Solid Manure		
Total Applied		
PAN Applied	3	5
Lagoon Water		
Total Applied	151	88
PAN Applied	99	76
Irrigation Source	59	151
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	250	311
Balance Ratio		
By Crop		
Total	0.87	1.11
PAN	0.68	1.09
By Field		
Total	1.00	1.00
PAN	0.91	0.91
By Farm		
Total	0.83	0.83
PAN	0.78	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-18**	**1-18**
Crop	**Wheat Silage**	**Corn Silage**
Expected Yield (tons/ac)	20	30
Acres	77	77
Start Date	11/05/2022	7/01/2023
Applications		
Commercial		100
Solid Manure		
Total Applied		
PAN Applied	10	15
Lagoon Water		
Total Applied	118	137
PAN Applied	80	102
Irrigation Source	60	157
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	222	305
Balance Ratio		
By Crop		
Total	0.83	1.31
PAN	0.71	1.25
By Field		
Total	1.11	1.11
PAN	1.02	1.02
By Farm		
Total	0.83	0.83
PAN	0.78	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-19**	**1-19**
Crop	**Wheat Silage**	**Corn Silage**
Expected Yield (tons/ac)	22	30
Acres	33	33
Start Date	11/04/2022	5/31/2023
Applications		
Commercial		100
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied	91	49
PAN Applied	65	59
Irrigation Source	17	76
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	189	177
Balance Ratio		
By Crop		
Total	0.61	1.31
PAN	0.47	1.37
By Field		
Total	0.95	0.95
PAN	0.91	0.91
By Farm		
Total	0.83	0.83
PAN	0.78	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-20**
Crop	**Alfalfa**
Expected Yield (tons/ac)	0
Acres	57
Start Date	11/01/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	4
Lagoon Water	
Total Applied	
PAN Applied	15
Irrigation Source	0
Atmospheric	14
Removal	
Planned Harvest	
Actual Harvest	
Balance Ratio	
By Crop	
Total	14.00
PAN	32.60
By Field	
Total	14.00
PAN	32.60
By Farm	
Total	0.83
PAN	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-21**
Crop	**Alfalfa**
Expected Yield (tons/ac)	8
Acres	78
Start Date	11/01/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	
Lagoon Water	
Total Applied	
PAN Applied	1
Irrigation Source	0
Atmospheric	14
Removal	
Planned Harvest	558
Actual Harvest	
Balance Ratio	
By Crop	
Total	0.03
PAN	0.03
By Field	
Total	0.03
PAN	0.03
By Farm	
Total	0.83
PAN	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-23**	**1-23**
Crop	**Wheat Silage**	**Corn Silage**
Expected Yield (tons/ac)	20	30
Acres	60	60
Start Date	10/12/2022	6/06/2023
Applications		
Commercial		
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied	80	
PAN Applied	39	26
Irrigation Source	124	183
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	184	197
Balance Ratio		
By Crop		
Total	1.15	0.96
PAN	0.93	1.10
By Field		
Total	1.05	1.05
PAN	1.01	1.01
By Farm		
Total	0.83	0.83
PAN	0.78	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-24**	**1-24**
Crop	**Wheat Silage**	**Corn Silage**
Expected Yield (tons/ac)	20	30
Acres	27	27
Start Date	10/21/2022	6/09/2023
Applications		
Commercial		
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied	103	
PAN Applied	9	29
Irrigation Source	123	207
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	184	188
Balance Ratio		
By Crop		
Total	1.26	1.14
PAN	0.75	1.29
By Field		
Total	1.20	1.20
PAN	1.03	1.03
By Farm		
Total	0.83	0.83
PAN	0.78	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-25**	**1-25**
Crop	**Wheat Silage**	**Corn Silage**
Expected Yield (tons/ac)	20	30
Acres	20	20
Start Date	10/03/2022	6/07/2023
Applications		
Commercial		
Solid Manure		
Total Applied		
PAN Applied	1	2
Lagoon Water		
Total Applied	75	
PAN Applied	62	30
Irrigation Source	87	239
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	194	196
Balance Ratio		
By Crop		
Total	0.87	1.26
PAN	0.81	1.42
By Field		
Total	1.07	1.07
PAN	1.12	1.12
By Farm		
Total	0.83	0.83
PAN	0.78	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	**1-29**
Crop	**Corn Silage**
Expected Yield (tons/ac)	30
Acres	78
Start Date	5/05/2023
Applications	
Commercial	100
Solid Manure	
Total Applied	
PAN Applied	
Lagoon Water	
Total Applied	55
PAN Applied	40
Irrigation Source	34
Atmospheric	14
Removal	
Planned Harvest	
Actual Harvest	196
Balance Ratio	
By Crop	
Total	1.04
PAN	0.96
By Field	
Total	1.04
PAN	0.96
By Farm	
Total	0.83
PAN	0.78

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	
1-13	Pistachios	25.00	11/01/2022			0		
1-14	Pistachios	75.00	11/01/2022			0		
1-15	Pistachios	57.00	11/01/2022	X		8		
1-16	Wheat Silage	35.00	10/19/2022		04/22/2023	20	20.00	700
1-16	Corn Silage	35.00	06/02/2023		09/20/2023	30	28.00	980
1-17	Wheat Silage	20.00	10/12/2022		04/15/2023	20	33.00	660
1-17	Corn Silage	20.00	05/29/2023		10/19/2023	30	28.00	560
1-18	Wheat Silage	77.00	11/05/2022		05/09/2023	20	20.00	1,540
1-18	Corn Silage	77.00	07/01/2023		10/19/2023	30	28.00	2,156
1-19	Wheat Silage	33.00	11/04/2022		04/20/2023	22	20.00	660
1-19	Corn Silage	33.00	05/31/2023		09/18/2023	30	28.00	924
1-20	Alfalfa	57.00	11/01/2022			0		
1-21	Alfalfa	78.00	11/01/2022	X		8		
1-23	Wheat Silage	60.00	10/12/2022		04/15/2023	20	20.00	1,200
1-23	Corn Silage	60.00	06/06/2023		09/24/2023	30	28.00	1,680
1-24	Wheat Silage	27.00	10/21/2022		04/24/2024	20	20.00	540
1-24	Corn Silage	27.00	06/09/2023		09/24/2023	30	28.00	756
1-25	Wheat Silage	20.00	10/03/2022		04/06/2023	20	20.00	400
1-25	Corn Silage	20.00	06/07/2023		09/25/2023	30	28.00	560

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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	
1-29	Corn Silage	78.00	05/05/2023	X	08/23/2023	30	28.00	2,184

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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
1-16	Wheat Silage	4/22/2023	700	209		70.10	1.41	0.32	0.95	5,902	1,340	3,977
					12-22-P-22	70.10	1.41	0.32	0.95			
1-16	Corn Silage	9/20/2023	980	311		68.30	1.03	0.24	1.30	6,400	1,491	8,077
					12-23-P-11	68.30	1.03	0.24	1.30			
1-17	Wheat Silage	4/15/2023	660	180		72.80	1.39	0.32	1.42	4,991	1,149	5,098
					12-23-P-2	72.80	1.39	0.32	1.42			
1-17	Corn Silage	10/19/2023	560	184		67.10	1.69	0.31	0.92	6,227	1,142	3,390
					12-22-P-22	67.10	1.69	0.31	0.92			
1-18	Wheat Silage	5/09/2023	1,540	533		65.40	1.61	0.34	1.42	17,157	3,623	15,133
					12-23-P-1	65.40	1.61	0.34	1.42			
1-18	Corn Silage	10/19/2023	2,156	914		57.60	1.28	0.33	0.98	23,402	6,033	17,917
					12-22-P-5	57.60	1.28	0.33	0.98			
1-19	Wheat Silage	4/20/2023	660	202		69.40	1.55	0.36	1.62	6,261	1,454	6,544
					12-23-P-3	69.40	1.55	0.36	1.62			
1-19	Corn Silage	9/18/2023	924	319		65.50	0.91	0.29	0.99	5,802	1,849	6,312
					12-23-P-13	65.50	0.91	0.29	0.99			
1-23	Wheat Silage	4/15/2023	1,200	384		68.00	1.44	0.29	1.18	11,059	2,227	9,062
					12-23-P-5	68.00	1.44	0.29	1.18			
1-23	Corn Silage	9/24/2023	1,680	420		75.00	1.41	0.23	1.64	11,844	1,932	13,776
					12-23-P-9	75.00	1.41	0.23	1.64			
1-24	Wheat Silage	4/24/2024	540	173		67.90	1.44	0.31	1.30	4,992	1,075	4,507
					12-23-P-6	67.90	1.44	0.31	1.30			
1-24	Corn Silage	9/24/2023	756	219		71.00	1.16	0.25	1.37	5,086	1,096	6,007
					12-23-P-8	71.00	1.16	0.25	1.37			
1-25	Wheat Silage	4/06/2023	400	134		66.60	1.45	0.26	1.98	3,874	695	5,291
					12-23-P-7	66.60	1.45	0.26	1.98			
1-25	Corn Silage	9/25/2023	560	171		69.40	1.14	0.25	1.65	3,907	857	5,655
					12-23-P-10	69.40	1.14	0.25	1.65			
1-29	Corn Silage	8/23/2023	2,184	668		69.40	1.14	0.25	1.65	15,237	3,342	22,054
					12-23-P-15	69.40	1.14	0.25	1.65			

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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: 1-13
Crop: Pistachios

Total Nutrients Applied To This Crop:

Nitrogen	0	**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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-13

Crop: Pistachios

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	
Total =								

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-14

Crop: Pistachios

Total Nutrients Applied To This Crop:

Nitrogen	0	**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	
Total =								

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-15

Crop: Pistachios

Total Nutrients Applied To This Crop:

Nitrogen	0	**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	
Total =								

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-16

Crop: Wheat Silage

Total Nutrients Applied To This Crop:

Nitrogen	7,237	**lbs**
Phosphorus	930	**lbs**
Potassium	5,949	**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
02/15/2023	800		**0.00**	**362**	**70.0**	**448.0**	2,404	465	2,975
		12-22-L-4	0.00	362	70.0	448.0			
11/01/2022	800		**0.00**	**362**	**70.0**	**448.0**	2,404	465	2,975
		12-22-L-4	0.00	362	70.0	448.0			
Total =	**1,600**						**4,807**	**930**	**5,949**

Irrigation Applications:

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-16

Crop: Wheat 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	
11/01/2022	4,500							810.0
	4,500	12-22-W-2	1-17	Well	21.60			810.0
2/15/2023	4,500							810.0
	4,500	12-22-W-2	1-17	Well	21.60			810.0
3/15/2023	4,500							810.0
	4,500	12-22-W-2	1-17	Well	21.60			810.0
Total =	**13,500**							**2,430.0**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-16

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	6,993	**lbs**
Phosphorus	546	**lbs**
Potassium	3,506	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K
6/25/2023	3,500		

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
05/19/2023	800		**0.00**	**526**	**82.3**	**528.0**	3,493	546	3,506
		12-23-L-2	0.00	526	82.3	528.0			
Total =	**800**						**3,493**	**546**	**3,506**

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	
Total =								

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-17

Crop: Wheat Silage

Total Nutrients Applied To This Crop:

Nitrogen	4,193	**lbs**
Phosphorus	581	**lbs**
Potassium	3,718	**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
02/08/2023	500		**0.00**	**362**	**70.0**	**448.0**	1,502	291	1,859
		12-22-L-4	0.00	362	70.0	448.0			
10/20/2022	500		**0.00**	**362**	**70.0**	**448.0**	1,502	291	1,859
		12-22-L-4	0.00	362	70.0	448.0			
Total =	**1,000**						**3,005**	**581**	**3,718**

Irrigation Applications:

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28

Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-17

Crop: Wheat 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	
10/20/2022	2,200							396.0
	2,200	12-22-W-2	1-17	Well	21.60			396.0
2/08/2023	2,200							396.0
	2,200	12-22-W-2	1-17	Well	21.60			396.0
3/20/2023	2,200							396.0
	2,200	12-22-W-2	1-17	Well	21.60			396.0
Total =	**6,600**							**1,188.0**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-17

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	6,770	**lbs**
Phosphorus	273	**lbs**
Potassium	1,753	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K
6/21/2023	2,000		

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
07/17/2023	400		**0.00**	**526**	**82.3**	**528.0**	1,746	273	1,753
		12-23-L-2	0.00	526	82.3	528.0			
Total =	**400**						**1,746**	**273**	**1,753**

Irrigation Applications:

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-17

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	
5/15/2023	2,100							378.0
	2,100	12-22-W-2	1-17	Well	21.60			378.0
6/21/2023	2,100							378.0
	2,100	12-22-W-2	1-17	Well	21.60			378.0
7/04/2023	2,100							378.0
	2,100	12-22-W-2	1-17	Well	21.60			378.0
7/17/2023	2,100							378.0
	2,100	12-22-W-2	1-17	Well	21.60			378.0
7/30/2023	2,100							378.0
	2,100	12-22-W-2	1-17	Well	21.60			378.0
8/12/2023	2,100							378.0
	2,100	12-22-W-2	1-17	Well	21.60			378.0
8/25/2023	2,100							378.0
	2,100	12-22-W-2	1-17	Well	21.60			378.0
9/07/2023	2,100							378.0
	2,100	12-22-W-2	1-17	Well	21.60			378.0
Total =	**16,800**							**3,024.0**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-18

Crop: Wheat Silage

Total Nutrients Applied To This Crop:

Nitrogen	13,604	**lbs**
Phosphorus	1,743	**lbs**
Potassium	11,155	**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
04/15/2023	1,500		**0.00**	**362**	**70.0**	**448.0**	4,507	872	5,578
		12-22-L-4	0.00	362	70.0	448.0			
11/15/2022	1,500		**0.00**	**362**	**70.0**	**448.0**	4,507	872	5,578
		12-22-L-4	0.00	362	70.0	448.0			
Total =	**3,000**						**9,014**	**1,743**	**11,155**

Irrigation Applications:

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-18

Crop: Wheat 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	
11/15/2022	8,500							1,530.0
	8,500	12-22-W-2	1-17	Well	21.60			1,530.0
2/01/2023	8,500							1,530.0
	8,500	12-22-W-2	1-17	Well	21.60			1,530.0
4/15/2023	8,500							1,530.0
	8,500	12-22-W-2	1-17	Well	21.60			1,530.0
Total =	**25,500**							**4,590.0**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-18

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	30,238	**lbs**
Phosphorus	1,639	**lbs**
Potassium	10,518	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K
7/24/2023	7,700		

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
09/01/2023	1,200		**0.00**	**526**	**82.3**	**528.0**	5,239	820	5,259
		12-23-L-2	0.00	526	82.3	528.0			
06/17/2023	1,200		**0.00**	**526**	**82.3**	**528.0**	5,239	820	5,259
		12-23-L-2	0.00	526	82.3	528.0			
Total =	**2,400**						**10,478**	**1,639**	**10,518**

Irrigation Applications:

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28

Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-18

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	
6/17/2023	9,500							1,710.0
	9,500	12-22-W-2	1-17	Well	21.60			1,710.0
7/24/2023	8,500							1,530.0
	8,500	12-22-W-2	1-17	Well	21.60			1,530.0
8/06/2023	8,500							1,530.0
	8,500	12-22-W-2	1-17	Well	21.60			1,530.0
8/19/2023	8,500							1,530.0
	8,500	12-22-W-2	1-17	Well	21.60			1,530.0
9/01/2023	7,500							1,350.0
	7,500	12-22-W-2	1-17	Well	21.60			1,350.0
9/19/2023	8,500							1,530.0
	8,500	12-22-W-2	1-17	Well	21.60			1,530.0
9/27/2023	8,500							1,530.0
	8,500	12-22-W-2	1-17	Well	21.60			1,530.0
10/10/2023	7,500							1,350.0
	7,500	12-22-W-2	1-17	Well	21.60			1,350.0
Total =	**67,000**							**12,060.0**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-19

Crop: Wheat Silage

Total Nutrients Applied To This Crop:

Nitrogen	3,561	**lbs**
Phosphorus	581	**lbs**
Potassium	3,718	**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
02/25/2023	500		**0.00**	**362**	**70.0**	**448.0**	1,502	291	1,859
		12-22-L-4	0.00	362	70.0	448.0			
10/25/2022	500		**0.00**	**362**	**70.0**	**448.0**	1,502	291	1,859
		12-22-L-4	0.00	362	70.0	448.0			
Total =	**1,000**						**3,005**	**581**	**3,718**

Irrigation Applications:

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-19

Crop: Wheat 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	
10/25/2022	3,500							185.5
	3,500	12-17-W-8	1-19 N	Well	6.40			185.5
2/05/2023	3,500							185.5
	3,500	12-17-W-8	1-19 N	Well	6.40			185.5
2/25/2023	3,500							185.5
	3,500	12-17-W-8	1-19 N	Well	6.40			185.5
Total =	**10,500**							**556.5**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-19

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	7,404	**lbs**
Phosphorus	244	**lbs**
Potassium	1,897	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K
6/23/2023	3,300		

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	600		**0.00**	**216**	**32.6**	**254.0**	1,076	162	1,265
		12-23-L-1	0.00	216	32.6	254.0			
05/17/2023	300		**0.00**	**216**	**32.6**	**254.0**	538	81	632
		12-23-L-1	0.00	216	32.6	254.0			
Total =	**900**						**1,614**	**244**	**1,897**

Irrigation Applications:

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28

Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-19

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	
5/17/2023	4,500							238.5
	4,500	12-17-W-8	1-19 N	Well	6.40			238.5
6/23/2023	3,500							185.5
	3,500	12-17-W-8	1-19 N	Well	6.40			185.5
7/06/2023	3,500							185.5
	3,500	12-17-W-8	1-19 N	Well	6.40			185.5
7/19/2023	3,500							185.5
	3,500	12-17-W-8	1-19 N	Well	6.40			185.5
8/01/2023	3,500							185.5
	3,500	12-17-W-8	1-19 N	Well	6.40			185.5
8/14/2023	3,500							185.5
	3,500	12-17-W-8	1-19 N	Well	6.40			185.5
8/27/2023	3,500							1,165.5
	3,500	12-23-W-1	1-19	Well	39.90			1,165.5
9/09/2023	3,000							159.0
	3,000	12-17-W-8	1-19 N	Well	6.40			159.0
Total =	**28,500**							**2,490.5**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-20
Crop: Alfalfa

Total Nutrients Applied To This Crop:

Nitrogen	0	**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	
Total =								

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-21
Crop: Alfalfa

Total Nutrients Applied To This Crop:

Nitrogen	0	**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	
Total =								

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-23

Crop: Wheat Silage

Total Nutrients Applied To This Crop:

Nitrogen	12,255	**lbs**
Phosphorus	930	**lbs**
Potassium	5,949	**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
10/20/2022	800		**0.00**	**362**	**70.0**	**448.0**	2,404	465	2,975
		12-22-L-4	0.00	362	70.0	448.0			
03/20/2022	800		**0.00**	**362**	**70.0**	**448.0**	2,404	465	2,975
		12-22-L-4	0.00	362	70.0	448.0			
Total =	**1,600**						**4,807**	**930**	**5,949**

Irrigation Applications:

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28

Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-23

Crop: Wheat 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	
3/20/2022	7,500							2,482.5
	7,500	12-23-W-3	1-24	Well	39.70			2,482.5
10/20/2022	7,500							2,482.5
	7,500	12-23-W-3	1-24	Well	39.70			2,482.5
2/05/2023	7,500							2,482.5
	7,500	12-23-W-3	1-24	Well	39.70			2,482.5
Total =	**22,500**							**7,447.5**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-23

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	11,012	**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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28

Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-23

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	
5/23/2023	6,500							1,222.0
	6,500	12-22-W-5	Dairy Irrigation	Well	22.50			1,222.0
6/29/2023	6,500							1,222.0
	6,500	12-22-W-5	Dairy Irrigation	Well	22.50			1,222.0
7/12/2023	6,500							1,222.0
	6,500	12-22-W-5	Dairy Irrigation	Well	22.50			1,222.0
7/25/2023	6,500							1,222.0
	6,500	12-22-W-5	Dairy Irrigation	Well	22.50			1,222.0
8/20/2023	6,500							2,151.5
	6,500	12-23-W-3	1-24	Well	39.70			2,151.5
9/02/2023	6,500							2,151.5
	6,500	12-23-W-3	1-24	Well	39.70			2,151.5
9/15/2023	5,500							1,820.5
	5,500	12-23-W-3	1-24	Well	39.70			1,820.5
Total =	**44,500**							**11,011.5**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-24

Crop: Wheat Silage

Total Nutrients Applied To This Crop:

Nitrogen	6,091	**lbs**
Phosphorus	690	**lbs**
Potassium	6,076	**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
02/01/2023	500		**0.00**	**335**	**83.1**	**732.0**	1,390	345	3,038
		12-23-L-3	0.00	335	83.1	732.0			
10/30/2022	500		**0.00**	**335**	**83.1**	**732.0**	1,390	345	3,038
		12-23-L-3	0.00	335	83.1	732.0			
Total =	**1,000**						**2,781**	**690**	**6,076**

Irrigation Applications:

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-24

Crop: Wheat 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	
10/30/2022	3,500							1,158.5
	3,500	12-23-W-3	1-24	Well	39.70			1,158.5
2/01/2023	3,500							1,158.5
	3,500	12-23-W-3	1-24	Well	39.70			1,158.5
3/15/2023	3,000							993.0
	3,000	12-23-W-3	1-24	Well	39.70			993.0
Total =	**10,000**							**3,310.0**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-24

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	5,588	**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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28

Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-24

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	
7/02/2023	3,200							601.6
	3,200	12-22-W-5	Dairy Irrigation	Well	22.50			601.6
7/15/2023	3,200							601.6
	3,200	12-22-W-5	Dairy Irrigation	Well	22.50			601.6
7/28/2023	2,900							545.2
	2,900	12-22-W-5	Dairy Irrigation	Well	22.50			545.2
8/10/2023	2,900							959.9
	2,900	12-23-W-3	1-24	Well	39.70			959.9
8/23/2023	2,900							959.9
	2,900	12-23-W-3	1-24	Well	39.70			959.9
9/05/2023	2,900							959.9
	2,900	12-23-W-3	1-24	Well	39.70			959.9
9/18/2023	2,900							959.9
	2,900	12-23-W-3	1-24	Well	39.70			959.9
Total =	**20,900**							**5,588.0**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-25

Crop: Wheat Silage

Total Nutrients Applied To This Crop:

Nitrogen	3,240	**lbs**
Phosphorus	291	**lbs**
Potassium	1,859	**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
10/15/2022	500		**0.00**	**362**	**70.0**	**448.0**	1,502	291	1,859
		12-22-L-4	0.00	362	70.0	448.0			
Total =	**500**						**1,502**	**291**	**1,859**

Irrigation Applications:

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-25

Crop: Wheat 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	
10/15/2022	2,250							744.8
	2,250	12-23-W-3	1-24	Well	39.70			744.8
1/25/2023	1,500							496.5
	1,500	12-23-W-3	1-24	Well	39.70			496.5
3/25/2023	1,500							496.5
	1,500	12-23-W-3	1-24	Well	39.70			496.5
Total =	**5,250**							**1,737.8**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-25

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	4,792	**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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28

Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-25

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	
5/24/2023	2,000							376.0
	2,000	12-22-W-5	Dairy Irrigation	Well	22.50			376.0
6/30/2023	2,500							470.0
	2,500	12-22-W-5	Dairy Irrigation	Well	22.50			470.0
7/13/2023	2,500							470.0
	2,500	12-22-W-5	Dairy Irrigation	Well	22.50			470.0
7/26/2023	2,000							662.0
	2,000	12-23-W-3	1-24	Well	39.70			662.0
8/08/2023	2,500							827.5
	2,500	12-23-W-3	1-24	Well	39.70			827.5
8/21/2023	2,000							662.0
	2,000	12-23-W-3	1-24	Well	39.70			662.0
9/03/2023	2,000							662.0
	2,000	12-23-W-3	1-24	Well	39.70			662.0
9/16/2023	2,000							662.0
	2,000	12-23-W-3	1-24	Well	39.70			662.0
Total =	**17,500**							**4,791.5**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-29

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	14,763	**lbs**
Phosphorus	649	**lbs**
Potassium	5,060	**lbs**

Commercial Fertilizer Applied To This Crop:

Date	Total Pounds Applied		
	N	P	K
5/28/2023	7,800		

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
06/10/2023	1,200		**0.00**	**216**	**32.6**	**254.0**	2,151	325	2,530
		12-23-L-1	0.00	216	32.6	254.0			
04/21/2023	1,200		**0.00**	**216**	**32.6**	**254.0**	2,151	325	2,530
		12-23-L-1	0.00	216	32.6	254.0			
Total =	**2,400**						**4,303**	**649**	**5,060**

Irrigation Applications:

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28

Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field: 1-29

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	
4/21/2023	9,000							342.0
	9,000	12-22-W-9	1-29	Well	4.60			342.0
5/28/2023	9,000							342.0
	9,000	12-22-W-9	1-29	Well	4.60			342.0
6/10/2023	9,000							342.0
	9,000	12-22-W-9	1-29	Well	4.60			342.0
6/23/2023	9,000							342.0
	9,000	12-22-W-9	1-29	Well	4.60			342.0
7/06/2023	9,000							342.0
	9,000	12-22-W-9	1-29	Well	4.60			342.0
7/19/2023	9,000							342.0
	9,000	12-22-W-9	1-29	Well	4.60			342.0
8/01/2023	9,000							342.0
	9,000	12-22-W-9	1-29	Well	4.60			342.0
8/14/2023	7,000							266.0
	7,000	12-22-W-9	1-29	Well	4.60			266.0
Total =	**70,000**							**2,660.0**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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
1-16	11/01/2022	Process Wastewater	Nominal	Nominal	Nominal
1-16	02/15/2023	Process Wastewater	Nominal	Nominal	Nominal
1-16	05/19/2023	Process Wastewater	Nominal	Nominal	Nominal
1-16	08/03/2023	Process Wastewater	Nominal	Nominal	Nominal
1-17	10/20/2022	Process Wastewater	Nominal	Nominal	Nominal
1-17	02/08/2023	Process Wastewater	Nominal	Nominal	Nominal
1-17	05/15/2023	Process Wastewater	Nominal	Nominal	Nominal
1-17	07/17/2023	Process Wastewater	Nominal	Nominal	Nominal
1-18	11/15/2022	Process Wastewater	Nominal	Nominal	Nominal
1-18	04/15/2023	Process Wastewater	Nominal	Nominal	Nominal
1-18	06/17/2023	Process Wastewater	Nominal	Nominal	Nominal
1-18	09/01/2023	Process Wastewater	Nominal	Nominal	Nominal
1-19	10/25/2022	Process Wastewater	Nominal	Nominal	Nominal
1-19	02/25/2023	Process Wastewater	Nominal	Nominal	Nominal
1-19	05/17/2023	Process Wastewater	Nominal	Nominal	Nominal
1-19	08/14/2023	Process Wastewater	Nominal	Nominal	Nominal
1-23	03/20/2022	Process Wastewater	Nominal	Nominal	Nominal
1-23	10/20/2022	Process Wastewater	Nominal	Nominal	Nominal
1-24	10/30/2022	Process Wastewater	Nominal	Nominal	Nominal
1-24	02/01/2023	Process Wastewater	Nominal	Nominal	Nominal
1-25	10/15/2022	Process Wastewater	Nominal	Nominal	Nominal
1-29	04/21/2023	Process Wastewater	Nominal	Nominal	Nominal

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2023

Field	Date	Type of Application	Weather Conditions		
			24 hr Prior	During	24 hr After
1-29	06/10/2023	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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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

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
Grand Total / Average	**0**							**0**	**0**	**0**

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2024

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
Average						

Manure General Mineral Analysis

Required Once Every Two Years Last Analysis Date: 4/16/2020

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

Notes: Laboratory detection limit listed below each result.

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2024

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	
Averages										

Wastewater General Minerals Analysis

Required Once Every Two Years Last Analysis Date: 3/13/2018

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2024

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
	1-14 LP	Surface	Active								
	1-16 LP	Surface	Active								
	1-17 LP	Surface	Active								
	1-20 LP	Surface	Active								
	Dairy Ditch	Surface	Active								
	1-13 D	Well	Active			2/14/2019					
	1-14 E	Well	Active			11/19/2015					
	1-14 W	Well	Active								
	1-17	Well	Active			7/29/2016					
	1-19	Well	Active			7/29/2016					
	1-19 N	Well	Active								
	1-19 N Dom	Well	Active			8/13/2014					
	1-19 S Dom	Well	Active								
	1-20	Well	Active								
	1-24	Well	Active			7/29/2016					

Notes: Laboratory detection limit listed below each result.

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2024

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
	1-29	Well	Active			11/19/2015					
	Dairy Barn	Well	Active			8/13/2014					
	Dairy Inop	Well	InActive								
	Dairy Irrigation	Well	Active			7/29/2016					

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

Notes: Laboratory detection limit listed below each result.

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2024

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: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2024

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)
	1-13									
	1-14									
	1-15									
	1-16									
	1-17									
	1-18									
	1-19									
	1-20									
	1-21									
	1-23									
	1-24									
	1-25									
	1-29									

Notes: Laboratory detection limit listed below each result.

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2024

Plant Tissue Samples
Harvest

Sample Date	Field ID	Crop	Sample Location	Sample ID	Volume % Moisture	Total (% Dry Basis)			
						N	P	K	ASH

Notes: Laboratory detection limit listed below each result.

Dairy Name: Endeavor Gold Dairy

Dairy Address: 21573 Road 28
Tulare, CA 93274

Report Period: Jan 01 through Dec 31, 2024

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)

March 17, 2022

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Lab ID : VI 2241502
Customer : 4-16916

Laboratory Report

Introduction: This report package contains total of 6 pages divided into 3 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(3 pages)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
Dom (Dairy Well)	03/07/2022	03/07/2022	VI 2241502-001	AgW
Dom (Dairy)	03/07/2022	03/07/2022	VI 2241502-002	AgW
Dom (1-19C)	03/07/2022	03/07/2022	VI 2241502-003	AgW

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Wet Chemistry QC

2510B	03/11/2022:203553 All analysis quality controls are within established criteria
	03/11/2022:202724 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573)
4500NO3F	03/08/2022:203423 All analysis quality controls are within established criteria
	03/08/2022:202624 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573)

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

March 17, 2022 Lab ID : VI 2241502
Valley Tech Agricultural Lab Services Customer : 4-16916

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:JRD

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2022-03-18

March 17, 2022

Lab ID : VI 2241502-001
Customer ID : 4-16916

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Sampled On : March 7, 2022-07:00
Sampled By : Manuel Avila
Received On : March 7, 2022-15:00
Matrix : Ag Water

Description : Dom (Dairy Well)
Project : DFM - Endeavor Gold

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Dairy Analysis								
Nitrate Nitrogen	22.6	0.2	mg/L		4500NO3F	03/08/22:202624	4500NO3F	03/08/22:203423
Conductivity	567	1	umhos/cm		2510B	03/11/22:202724	2510B	03/11/22:203553

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

March 17, 2022

Lab ID : VI 2241502-002
Customer ID : 4-16916

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Sampled On : March 7, 2022-07:15
Sampled By : Manuel Avila
Received On : March 7, 2022-15:00
Matrix : Ag Water

Description : Dom (Dairy)
Project : DFM - Endeavor Gold

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Dairy Analysis								
Nitrate Nitrogen	22.5	0.2	mg/L		4500NO3F	03/08/22:202624	4500NO3F	03/08/22:203423
Conductivity	558	1	umhos/cm		2510B	03/11/22:202724	2510B	03/11/22:203553

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

March 17, 2022

Lab ID : VI 2241502-003
Customer ID : 4-16916

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Sampled On : March 7, 2022-07:30
Sampled By : Manuel Avila
Received On : March 7, 2022-15:00
Matrix : Ag Water

Description : Dom (1-19C)
Project : DFM - Endeavor Gold

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Dairy Analysis								
Nitrate Nitrogen	24.6	0.2	mg/L		4500NO3F	03/08/22:202624	4500NO3F	03/08/22:203423
Conductivity	788	1	umhos/cm		2510B	03/11/22:202724	2510B	03/11/22:203553

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

March 17, 2022 Lab ID : VI 2241502
Valley Tech Agricultural Lab Services Customer : 4-16916

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Conductivity	2510B	03/11/22:203553sta	ICB	umhos/cm		0.0600	1	
			CCV	umhos/cm	997.0	96.0%	95-105	
			CCV	umhos/cm	997.0	95.8%	95-105	
			CCV	umhos/cm	997.0	95.9%	95-105	
E. C.	2510B	03/11/22:202724sta	Blank	umhos/cm		ND	<1	
		(VI 2241524-001)	Dup	umhos/cm		0.2%	5	
			Blank	umhos/cm		ND	<1	
		(VI 2241525-001)	Dup	umhos/cm		0.06%	5	
Nitrate + Nitrite as N	4500NO3F	03/08/22:202624vvh	Blank	mg/L		ND	<0.2	
			LCS	mg/L	11.22	102%	80-120	
			MS	mg/L	5.609	98.6%	5-285	
		(STK2233023-001)	MSD	mg/L	5.609	100%	5-285	
			MSRPD	mg/L	5.609	1.1%	≤30.4	
	4500NO3F	03/08/22:203423vvh	CCB	mg/l		0.0490	0.2	
			CCV	mg/l	11.22	100%	90-110	
			CCB	mg/l		0.125	0.2	
			CCV	mg/l	11.22	101%	90-110	
Nitrate Nitrogen	4500NO3F	03/08/22:202624vvh	Blank	mg/L		ND	<0.2	

Definition

ICB	: Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
CCB	: Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
LCS	: Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
Dup	: Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND	: Non-detect - Result was below the DQO listed for the analyte.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

2120 South 'K' Street
Tulare, California 93274
Office: 559 - 688-5684
Fax: 559 - 688-5768

Valley Tech

4016916
2241502

AGRICULTURAL LABORATORY SERVICES

Billing: DFM

Authorized Copy To:

Phone: Fax: Email:

FARM/DAIRY PROJECT: ENDEAVOR Gold RANCH/Site:

MATERIAL: ( ) Lagoon Waste Water (✓) Irrigation Water ( ) Manure ( ) Soil ( ) Plant Tissue ( ) Other:

CROP: Stage: Soil Depth: Pattern:

Conditions-Comments: Collected By: Manuel Avila

IRRIGATION/GROUND WATER

- W-1 pH,EC,Ca,Mg,Na,K,B,HCO_3,CO_3,NO_3N,Cl,SO_4S,SAR/EC Ratio
- W-2 EC, NO_3N, NH_4N
- W-3 EC,NO_3N (Reg Standards) 801 ✓
- W-4 EC,NO_3N,NH_4N,TDS,Ca,Mg,Na,HCO_3,CO_3,SO_4S,Cl
- W-5 EC,NO_3N,TDS,TP (Subsurface Drainage)
- W-6 Other:

PROCESS WASTE WATER (LAGOON)

- L-1 EC,NH_4-N,TKN,TP,TK,TDS (Reg Standards)
- L-2 EC,NH_4-N,TKN,TP,TK,Ca,Mg,Na,HCO_3,CO_3,Cl,SO_4-S
- L-3 pH,TDS,EC,NO_3N,NH_4N,TKN,TP,TK
- L-4 Other:

MANURE

- M-1 TN,TP,TK,%Moisture (Reg Standards)
- M-2 TN,TP,TK,%Moisture,Ca,Mg,Na,Cl,S,Ash
- M-5 Other:

PLANT TISSUE

- P-1 N,P,K,Ca,Mg,Zn,Mn,Fe,Cu,B (Big 10)
- P-2 Complete (P1+Na,Cl)
- P-3 Harvested Crop (N,P,K,DM,Ash):
- P-4 TN or NO_3-N
- P-5 Plant TN or NO_3-N,TP or PO_4-P,K,Zn
- P-10 Other:
- P-11 TN,NO_3N,PO_4P,K
- P-12 TN,P,K

SOIL

- S-1 SP,pH,EC,Ca,Mg,Na,K,Cl,ESP,LP,NO_3-N,PO_4-P,K-AA,Zn,Mn,Fe,Cu,SO_4-S,CEC
- S-2 S-1 plus OM,TN,$CaCO_3$
- S-3 SP,pH,EC,Ca,Mg,Na,K,ESP,LP,B,SO_4-S
- S-4 SP,pH,EC,Ca,Mg,Na,K,ESP,LP,NO_3-N,PO_4-P,K-AA,Zn
- S-14 Other:

	Sample Description	Test	Date/Time		Sample Description	Test	Date/Time
1	DOM (Dairy WELL)	W-3	3-7-22 0700	11			
2	DOM (Dairy)	W-3	3-7-22 0715	12			
3	DOM (1-19C)	W-3	3-7-22 0730	13			
4				14			
5				15			
6				16			
7				17			
8				18			
9				19			
10				20			

CHAIN of CUSTODY Sample Transfer

	Signature - Name	Company	Received Date & Time	Relinquished Date & Time
1st	Manuel Avila	DFM	XXXXXXXXXXXXXXXX	3/07/2022 0900
2nd	[illegible]	Valley Tech	3/07/2022 0900	XXXXXXXXXXXXXXXX
3rd	[illegible]	VT	XXXXXXXXXXXXXXXX	3-7-2022 15:06

FGL 3/7/22 1506

Logged In By: [illegible] TOTAL SAMPLES 3 3/7/22 1720

LABORATORY NUMBER 307X007

GIS 10:30 3/8/22
(Amenas) 1 1

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OTC
2. Were samples received in a chilled condition? Temps: 10C / 4 / ____ / ____ / ____
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	VOAs checked for Headspace?	Yes	No	N/A
6.	Were sample custody seals intact?	Yes	No	N/A
7.	If required, was sample split for pH analysis?	Yes	No	N/A
8.	Were all analyses within holding times at time of receipt?	Yes	No	
9.	Verify sample date, time and sampler name	Yes	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): QH

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 3C / ____ / ____ / ____ / ____
   Acceptable is above freezing to 6 C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 556255643
   556255627

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	Were sample custody seals intact?	Yes	No	N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1.	Were all requested analyses understood and acceptable?	Yes	No		
2.	Did bottle labels correspond with the client's ID's?	Yes	No		
3.	Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	Yes	No	N/A	FGL
4.	VOAs checked for Headspace?	Yes	No	N/A	
5.	Have rush or project due dates been checked and accepted?	Yes	No	N/A	
6.	Were all analyses within holding times at time of receipt?	Yes	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): CMH

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:_____ Phone Number:_____
   Initiated By:_____ Date:_____
   Problem:
   Resolution:

2. Person Contacted:_____
   Initiated By:_____
   Problem:
   Resolution:

(Please use the back of this sheet for additional cor contacts)

(4016916)
Valley Tech Agricultural Lab Services
VI 2241502
iv 03/08/2022 09:44:39
VT 2241502

August 16, 2022

Lab No. : **VI 2245888**
Customer No. : **4016916**

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Laboratory Report

Introduction: This report package contains a total of 9 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(7 pages)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
1-17	08/03/2022	08/03/2022	VI 2245888-001	AGW
1-30	08/03/2022	08/03/2022	VI 2245888-002	AGW
1-24	08/03/2022	08/03/2022	VI 2245888-003	AGW
1-75	08/03/2022	08/03/2022	VI 2245888-004	AGW
1-19	08/03/2022	08/03/2022	VI 2245888-005	AGW
1-20	08/03/2022	08/03/2022	VI 2245888-006	AGW
1-7N	08/03/2022	08/03/2022	VI 2245888-007	AGW

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

SM 2510 B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2022-08-17

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 16, 2022

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Description : 1-17
Project : DFM

Lab No. : VI 2245888-001
Customer No. : 4016916

Sampled On : August 3, 2022 at 09:35
Sampled By : Client
Received On : August 3, 2022 at 11:30
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	21.6	0.2	mg/L		1		08/04/2022	14:00	lfs	SM 4500-NO3 F	08/04/2022	17:28	lfs
Conductivity	461	1	umhos/cm		1		08/10/2022	14:21	sta	SM 2510 B	08/10/2022	14:21	sta

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 16, 2022

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Description : 1-30
Project : DFM

Lab No. : VI 2245888-002
Customer No. : 4016916

Sampled On : August 3, 2022 at 10:00
Sampled By : Client
Received On : August 3, 2022 at 11:30
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	0.4	0.2	mg/L		1		08/04/2022	14:00	lfs	SM 4500-NO3 F	08/04/2022	17:30	lfs
Conductivity	350	1	umhos/cm		1		08/10/2022	14:21	sta	SM 2510 B	08/10/2022	14:21	sta

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 16, 2022

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Description : 1-24
Project : DFM

Lab No. : VI 2245888-003
Customer No. : 4016916

Sampled On : August 3, 2022 at 09:25
Sampled By : Client
Received On : August 3, 2022 at 11:30
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	33.2	0.2	mg/L		1		08/04/2022	14:00	lfs	SM 4500-NO3 F	08/04/2022	17:33	lfs
Conductivity	758	1	umhos/cm		1		08/10/2022	14:21	sta	SM 2510 B	08/10/2022	14:21	sta

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Page 4 of 9

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 16, 2022

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Description : 1-75
Project : DFM

Lab No. : VI 2245888-004
Customer No. : 4016916

Sampled On : August 3, 2022 at 10:00
Sampled By : Client
Received On : August 3, 2022 at 11:30
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	0.6	0.2	mg/L		1		08/04/2022	14:00	lfs	SM 4500-NO3 F	08/04/2022	17:35	lfs
Conductivity	159	1	umhos/cm		1		08/10/2022	14:21	sta	SM 2510 B	08/10/2022	14:21	sta

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Page 5 of 9

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 16, 2022

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Description : 1-19
Project : DFM

Lab No. : VI 2245888-005
Customer No. : 4016916

Sampled On : August 3, 2022 at 09:15
Sampled By : Client
Received On : August 3, 2022 at 11:30
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	9.5	0.2	mg/L		1		08/04/2022	14:00	lfs	SM 4500-NO3 F	08/04/2022	17:38	lfs
Conductivity	324	1	umhos/cm		1		08/10/2022	14:21	sta	SM 2510 B	08/10/2022	14:21	sta

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 16, 2022

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Description : 1-20
Project : DFM

Lab No. : VI 2245888-006
Customer No. : 4016916

Sampled On : August 3, 2022 at 10:25
Sampled By : Client
Received On : August 3, 2022 at 11:30
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	4.5	0.2	mg/L		1		08/04/2022	14:00	lfs	SM 4500-NO3 F	08/04/2022	17:40	lfs
Conductivity	235	1	umhos/cm		1		08/10/2022	14:21	sta	SM 2510 B	08/10/2022	14:21	sta

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 16, 2022

Valley Tech Agricultural Lab Services
Attn: Joe O' Brien
2120 S. "K" St.
Tulare, CA 93274

Description : 1-7N
Project : DFM

Lab No. : VI 2245888-007
Customer No. : 4016916

Sampled On : August 3, 2022 at 09:45
Sampled By : Client
Received On : August 3, 2022 at 11:30
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	0.6	0.2	mg/L		1		08/04/2022	14:00	lfs	SM 4500-NO3 F	08/04/2022	17:43	lfs
Conductivity	156	1	umhos/cm		1		08/10/2022	14:21	sta	SM 2510 B	08/10/2022	14:21	sta

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 16, 2022

Valley Tech Agricultural Lab Services

Lab No. : VI 2245888
Customer No. : 4016916

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2510B	08/10/2022:209013STA	Blank	umhos/cm		ND	<1	
		(SP 2211976-001)	Dup	umhos/cm		0.9%	5	
			Blank	umhos/cm		ND	<1	
		(VI 2245889-002)	Dup	umhos/cm		0.9%	5	
Nitrate Nitrogen	4500NO3F	08/04/2022:208820LFS	Blank	mg/L		ND	<0.2	
			LCS	mg/L	11.22	97.7%	80-120	
			MS	mg/L	5.609	96.3%	66-125	
		(VI 2245919-001)	MSD	mg/L	5.609	97.2%	66-125	
			MSRPD	mg/L	5.609	0.5%	≤30.4	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI

1. Number of ice chests/packages received: _____ Shipping tracking # OTC
2. Were samples received in a chilled condition? Temps: *ROI / ____ / ____ / ____
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3. Do the number of bottles received agree with the COC?	Yes	No	N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5. VOAs checked for Headspace?	Yes	No	N/A
6. Were sample custody seals intact?	Yes	No	N/A
7. If required, was sample split for pH analysis?	Yes	No	N/A
8. Were all analyses within holding times at time of receipt?	Yes	No	
9. Verify sample date, time and sampler name	Yes	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): CDS

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 2 / 4 / ____ / ____ / ____
   Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers:
   1ZW426920391750234 / 2470644

3. Do the number of bottles received agree with the COC?	Yes	No	N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5. Were sample custody seals intact?	Yes	No	N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable?	Yes	No		
2. Did bottle labels correspond with the client's ID's?	Yes	No		
3. Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	Yes	No	N/A	FGL
4. VOAs checked for Headspace?	Yes	No	N/A	
5. Have rush or project due dates been checked and accepted?	Yes	No	N/A	
6. Were all analyses within holding times at time of receipt?	Yes	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): CMA

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:
   Resolution:

2. Person Contacted: _____
   Initiated By: _____
   Problem:
   Resolution:

(Please use the back of this sheet for additional c
contacts)

(4016916)
Valley Tech Agricultural Lab Services
VI 2245888
lv 08/04/2022 07:23:07
VI 2245888

2120 South 'K' Street
Tulare, California 93274
Office: 559 - 688-5684
Fax: 559 - 688-5768

Valley Tech

2246888

AGRICULTURAL LABORATORY SERVICES

Billing: DFM Dairy Facility Monitoring

Authorized Copy To:

Phone: Fax: Email:

FARM/DAIRY PROJECT: ~~M.S. Mouthies & Sons~~ ~~Lakeside Dairy~~ ENDEAVOR GOLD RANCH/Site:

MATERIAL: ( ) Lagoon Waste Water (✓) Irrigation Water ( ) Manure ( ) Soil ( ) Plant Tissue ( ) Other:

CROP: Stage: Soil Depth: Pattern:

Conditions-Comments: Collected By: CLIENT

IRRIGATION/GROUND WATER

- W-1 pH,EC,Ca,Mg,Na,K,B,HCO_3,CO_3,NO_3N,Cl,SO_4S,SAR/EC Ratio
- W-2 EC,NO_3N,NH_4N
- W-3 EC,NO_3N (Reg Standards)
- W-4 EC,NO_3N,NH_4N,TDS,Ca,Mg,Na,HCO_3,CO_3,SO_4S,Cl
- W-5 EC,NO_3N,TDS,TP (Subsurface Drainage)
- W-6 Other:

PROCESS WASTE WATER (LAGOON)

- L-1 EC,NH_4-N,TKN,TP,TK,TDS (Reg Standards)
- L-2 EC,NH_4-N,TKN,TP,TK,Ca,Mg,Na,HCO_3,CO_3,Cl,SO_4-S
- L-3 pH,TDS,EC,NO_3N,NH_4N,TKN,TP,TK
- L-4 Other:

MANURE

- M-1 TN,TP,TK,%Moisture (Reg Standards)
- M-2 TN,TP,TK,%Moisture,Ca,Mg,Na,Cl,S,Ash
- M-5 Other:

PLANT TISSUE

- P-1 N,P,K,Ca,Mg,Zn,Mn,Fe,Cu,B (Big 10)
- P-2 Complete (P1+Na,Cl)
- P-3 Harvested Crop (N,P,K,DM,Ash):
- P-4 TN or NO_3-N
- P-5 Plant TN or NO_3-N,TP or PO_4-P,K,Zn
- P-10 Other:
- P-11 TN,NO_3N,PO_4P,K
- P-12 TN,P,K

SOIL

- S-1 SP,pH,EC,Ca,Mg,Na,K,Cl,ESP,LP,NO_3-N,PO_4-P,K-AA,Zn,Mn,Fe,Cu,SO_4-S,CEC
- S-2 S-1 plus OM,TN,$CaCO_3$
- S-3 SP,pH,EC,Ca,Mg,Na,K,ESP,LP,B,SO_4-S
- S-4 SP,pH,EC,Ca,Mg,Na,K,ESP,LP,NO_3-N,PO_4-P,K-AA,Zn
- S-14 Other:

Sample Description	Test	Date/Time	Sample Description	Test	Date/Time
1 1-17	W-3	8-3-22 9:35AM	11		
2 1-30	W-3	8-3-22 10:00AM	12		
3 1-24	W-3	8-3-22 9:25AM	13		
4 1-7S	W-3	8-3-22 10:05AM	14		
5 1-19	W-3	8-3-22 9:15AM	15		
6 1-20	W-3	8-3-22 10:25AM	16		
7 1-7N	W-3	8-3-22 9:45AM	17		
8			18		
9			19		
10			20		

CHAIN of CUSTODY Sample Transfer

UPS 8/4/22 1:53

	Signature - Name	Company	Received Date & Time	Relinquished Date & Time
1st	Manuel O. Ortiz	DFM	XXXXXXXXXXXXXXXX	~~8-3-22~~ 12:30PM
2nd	[illegible]	VT	8/3/22 12:30	XXXXXXXXXXXXXXXX
3rd	[illegible]	VT	XXXXXXXXXXXXXXXX	8-3-22 11:47

Rec'd: UPS AJ FGL 8-3-2022 1147

Logged In By: AJ TOTAL SAMPLES 7

LABORATORY NUMBER ~~W 28344~~ AH

Rel: UPS
Rec'd: UPS 8-3-2022 1730

0803X002