



Westwood Farms LLC

2023 Annual Report

<input checked="" type="checkbox"/> Report Form	<input type="checkbox"/> NA Attachment H
<input type="checkbox"/> Attachment A	<input type="checkbox"/> NA Attachment I
<input checked="" type="checkbox"/> Attachment B	<input type="checkbox"/> NA Attachment J
<input checked="" type="checkbox"/> Attachment C	<input type="checkbox"/> NA Manure Tracking Manifests
<input checked="" type="checkbox"/> Attachment D	<input type="checkbox"/> NA New or Revised Waste Water Agreements
<input checked="" type="checkbox"/> Attachment E	<input checked="" type="checkbox"/> X Groundwater Monitoring Samples
<input checked="" type="checkbox"/> Attachment F	<input type="checkbox"/> NA Monitoring Well Report
<input checked="" type="checkbox"/> Attachment G	<input type="checkbox"/> NA Owner/Operator Change Form

Enclosed are the required documents to be submitted to the Regional Water Quality Control Board Central Valley Region in compliance with Order No. R5-2013-0122 Waste Discharge Requirements, General Order for Existing Milk Cow Dairies for July 1, 2024.

(See attached delivery confirmation)

Annual Report

Westwood Farms LLC 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy	Westwood Farms LLC
Facility Address	6194 Avenue 228, Tulare CA 93274

Owner/Operator as of 12/31/2023

Operator Name	Daniel Westra
Operator Phone	(559) 331-1848
Owner Name	Daniel Westra
Owner Phone	(559) 331-1848

1. Beginning and end dates of the annual reporting period: crops harvested January 1, 2023 through December 31, 2023.
2. Maximum and average number and type of animals (see Attachment A).
3. Estimated amount of total manure and process wastewater generated by the facility (see Attachment A).
4. Estimated amount of total manure and process wastewater applied to each land application area (see Attachment B).
5. Quantified ratio of total nitrogen applied to land application areas and total nitrogen removed by crop harvest (see Attachment B).
6. Estimated amount of total manure and process wastewater transferred to other persons by the facility (see Attachment C).
7. Total number of acres and the Assessor Parcel Numbers for all land application areas that were not used for application of manure or process wastewater (see Attachment D).
8. Total number of acres and the Assessor Parcel Numbers for all land application areas that were used for land application of manure and process wastewater (see Attachment D).

9. Summary of manure and process wastewater discharges from the production area

Provide 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 annual reporting period, including the date, time, location, approximate volume, a map showing discharge and sample locations, rationale for sample locations, and method of measuring discharge flows:

- No discharges occurred during the reporting period.
 Yes. _____ Number of discharges occurred (see Attachment H).

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CENTRAL VALLEY REGION

10. Summary of storm water discharges from the production area

Provide a summary of all storm water discharges from the production area to surface water, that occurred during the annual reporting period, including the date, time, approximate volume, duration, location, a map showing discharge and sample locations, rationale for sample locations, and method of measuring discharge flows:

- No discharges occurred during the reporting period.
 Yes. _____ Number of discharges occurred (see Attachment I).

11. Summary of discharges from the land application area

Provide a summary of all discharges from the land application area to surface water, that occurred during the annual reporting period, including the date, time, approximate volume, location, source of discharge (i.e. tailwater, wastewater or blended wastewater), a map showing discharge and sample locations, rationale for sample locations, and method of measuring discharge flows:

- No discharges occurred during the reporting period.
 Yes. _____ Number of discharges occurred (see Attachment J).

12. Nutrient Management Plan update

Has the NMP been updated, and if so, was it updated by a Certified Nutrient Management Specialist?

- No.
 Yes, the new NMP was developed and approved by a Certified Nutrient Management Specialist.

13. Manure/Process Wastewater Tracking Manifests

Did you sell, give away, or otherwise remove manure or process wastewater from your property?

- No.
 Yes, see attached manifests.

14. Written Agreements

Any process wastewater transferred to a third party that receives process wastewater from your dairy for its own use must have a written agreement consistent with State requirements. Attach copies of revised and/or new agreements not submitted previously. Do not resubmit agreements submitted previously.

- Not applicable; no written agreements.
 No changes in agreement(s).
 Yes, a new or revised agreement is attached.

15. Laboratory Analyses for Discharges

If you answered Yes to items #9, 10, or 11 above, attach copies of all laboratory analyses for all discharges (manure, process wastewater or tailwater), surface water (upstream and downstream of a discharge), and storm water, including chain-of-custody forms and laboratory quality assurance/quality control results, as applicable. (Results for Manure and process wastewater, storm water, and/or storm water are provided).

- Not Applicable.
 Yes, provided with Attachment H, I, or J for #9, 10 and 11, respectively.

16. Tabulated Nutrient Analytical Data

Attach tabulated analytical data for samples of manure, process wastewater, irrigation water, soil, and plant tissue. The data shall be tabulated to clearly show sample dates, constituents analyzed, constituent concentrations, and detection limits (see Attachment E).

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17. Record-Keeping Results

Attach results of the Record-Keeping Requirements for the production and land application areas specified in Record-Keeping Requirements. These include:

- * Records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.
- * Records of the date, time, and estimated volume of any overflow or bypass of the wastewater storage or conveyance structures.
- * Expected and actual crop yields (see Attachment F).
- * Identification of crop, acreage, and dates of planting and harvest for each field (see Attachment F).
- * Dates, locations, and approximate weight and moisture content of manure applied to each field (see Attachment B).
- * Dates, locations, and volume of process wastewater applied to each field (see Attachment B).
- * Whether precipitation occurred, or standing water was present at the time of manure and process wastewater applications and for 24 hours prior to and following applications (see Attachment G).
- * Total amount of nitrogen, phosphorus, and potassium actually applied to each field, including documentation of calculations for the total amount applied (see Attachment B).

18. Groundwater Monitoring Section

- Groundwater monitoring results are attached.
 Monitoring Well results are attached, if applicable.

A. All dischargers must attach groundwater information for supply wells and subsurface (tile) drainage systems including the location of sample collection and all field and laboratory data, including all laboratory analyses (including chain-of-custody forms and laboratory quality assurance/quality control results).

B. Dischargers who have monitoring well systems shall include all laboratory analyses (including chain-of-custody forms and laboratory quality assurance/quality control results) and tabular and graphical summaries of the monitoring data. Data shall be tabulated to clearly show the sample dates, constituents analyzed, constituent concentrations, detection limits, depth to groundwater and groundwater elevations. Graphical summaries of groundwater gradients and flow directions shall also be included. Each groundwater monitoring report shall include a summary data table for all historical and current groundwater elevations and analytical results. The groundwater monitoring results shall be certified by a California registered professional.

19. Storm Water Reporting Section

- No significant discharges of storm water occurred from the land application areas.
 Yes, significant discharge(s) of storm water occurred from land application areas. The following information shall be submitted for those discharges.
 It was not possible to collect any of the required samples or perform visual observations due to adverse climatic conditions.

20. Mortality Management Practices

- * Dead cows are picked up and disposed of by rendering service.

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"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."

Same as owner

Signature of Operator of Facility

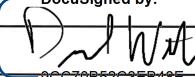
Daniel Westra

Print Name

6/30/2024

Title and Date

DocuSigned by:



9CC70B52C3EB48E...

Signature of Owner of Facility

Daniel Westra

Print Name

6/30/2024

Title and Date



INNOVATIVE AG SERVICES

Westwood Farms LLC 2023
Estimated Manure and Nutrients Generated (Attachment A)

Animal Type	Maximum No. of Head	Average No. of Head*	Housing Type	Weight	Total Manure Produced (tons/year)	NITROGEN	PHOSPHORUS	POTASSIUM	SALTS
						Net (LB) Available for Land Application			
Hol Milk Cows	1,370	1,335	Milk Freestall -	1,400	33,880.82	482,402.25	82,836.75	112,073.25	880,018.65
Hol Dry Cows	120	117	Dry Scrape	1,450	1,707.28	21,352.50	2,989.35	14,092.65	30,132.65
Hol Heifers(15-24)	660	643	Dry Scrape	1,000	6,711.97	89,184.10	14,081.70	42,245.10	165,600.79
Hol Heifers (7-14)	355	346	Dry Scrape	750	3,327.58	32,835.40	5,556.76	18,943.50	41,770.42
	2,505	2,441			45,627.64	625,774.25	105,464.56	187,354.50	1,117,522.51

* The Average No. of Head is used to calculate manure and nutrient production

Estimated Amount of Total Process Wastewater and Nutrients Generated

Total Gallons of Process Wastewater Generated***	Average TKN Concentration (mg/L)*	Average Total Phosphorus Concentration (mg/L)*	Average Potassium Concentration (mg/L)*	Average Total Dissolved Solids (mg/L)*	Total Nitrogen Generated (lb)**	Total Phosphorus Generated (lb)**	Total Potassium Generated (lb)**	Total Salt Generated (lb)**
32,739,396	710.25	113.08	711.00	5,135.00	193,698.79	30,837.72	193,903.33	1,400,412.9

* The average Total Kjeldahl Nitrogen, Total Phosphorus, Total Potassium, and Total Salt concentrations are based on an average of all process wastewater sample results for the year.

** The total pounds of Nitrogen, Phosphorus, Potassium and Total Dissolved Solids generated = Average Concentration (mg/L) X Total Gallons of Wastewater Generated X 8.33 X 0.000001.

*** The total gallons of process wastewater generated is calculated as the total gallons of process wastewater applied to all land application areas (Attachment B) plus the total gallons of process wastewater transferred offsite (Attachment C).



Westwood Farms LLC 2023 Nutrient Applications (Attachment B)

Field Name: 1

Wheat, 15 Acres Planted on 12/22/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			210					
01/15/2023	Ground Water: Well Avg	3.65	Acre Inches	36.60		mg/L			453	0	0	6,935		
01/15/2023	Waste Water: Main Lagoon	0.30	Acre Inches	526.00	53.80	965.00	mg/L		122,194	535	55	982	5,700	
03/14/2023	Ground Water: Well Avg	5.33	Acre Inches	36.60		mg/L			662	0	0	10,127		
03/14/2023	Waste Water: Main Lagoon	0.65	Acre Inches	526.00	53.80	965.00	mg/L		264,754	1,160	119	2,128	12,350	
05/11/2023	Ground Water: Well Avg	5.05	Acre Inches	36.60		mg/L			627	0	0	9,595		
05/11/2023	Waste Water: Main Lagoon	0.61	Acre Inches	525.00	143.00	718.00	mg/L		248,462	1,087	296	1,486	11,156	
05/26/2023	Harvest	19.90	Tons	59.30	1.43	0.32	1.65	%						3,475
Acre Inches Applied:		15.59		Totals:				635,411	4,734	469	4,596	55,864	3,475	
Season Nitrogen Ratio:		1.36		Lbs Per Acre:				316	31	306	3,724	232		



Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: 1

Corn, 15 Acres Planted on 07/18/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
07/30/2023	Surface Water: Tulare	5.37	Acre Inches				mg/L			0	0	0	0	
07/30/2023	Waste Water: Main Lagoon	0.86	Acre Inches	490.00	55.50	466.00	mg/L	350,290	1,430	162	1,360	14,298		
08/14/2023	Surface Water: Tulare	7.33	Acre Inches				mg/L			0	0	0	0	
08/29/2023	Ground Water: Well Avg	5.69	Acre Inches	36.60			mg/L			707	0	0	10,811	
08/29/2023	Waste Water: Main Lagoon	0.41	Acre Inches	490.00	55.50	466.00	mg/L	166,999	682	77	648	6,816		
09/12/2023	Ground Water: Well Avg	5.37	Acre Inches	36.60			mg/L			667	0	0	10,203	
09/26/2023	Ground Water: Well Avg	5.37	Acre Inches	36.60			mg/L			667	0	0	10,203	
10/06/2023	Ground Water: Well Avg	5.87	Acre Inches	36.60			mg/L			729	0	0	11,153	
10/17/2023	Harvest	29.20	Tons	64.30	1.17	0.30	1.01	%						3,659
Acre Inches Applied:		36.27		Totals:				517,289	4,881	239	2,008	63,485		3,659
Season Nitrogen Ratio:		1.33		Lbs Per Acre:					325	16	134	4,232		244



Westwood Farms LLC 2023 Nutrient Applications (Attachment B)

Field Name: 2

Wheat, 35 Acres Planted on 12/23/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			490					
01/16/2023	Ground Water: Well Avg	3.97	Acre Inches	36.60		mg/L			1,150	0	0	17,601		
01/16/2023	Waste Water: Main Lagoon	0.75	Acre Inches	526.00	53.80	965.00	mg/L		712,800	3,123	320	5,730	33,251	
03/15/2023	Ground Water: Well Avg	4.69	Acre Inches	36.60		mg/L			1,359	0	0	20,793		
03/15/2023	Waste Water: Main Lagoon	0.88	Acre Inches	526.00	53.80	965.00	mg/L		836,352	3,664	375	6,723	39,014	
05/12/2023	Surface Water: Tulare	4.57	Acre Inches	0.00		mg/L			0	0	0	1,085		
05/12/2023	Waste Water: Main Lagoon	0.86	Acre Inches	525.00	143.00	718.00	mg/L		817,344	3,575	974	4,888	36,698	
05/27/2023	Harvest	20.75	Tons	56.00	1.51	0.34	1.88	%						9,651
Acre Inches Applied:		15.72		Totals:				2,366,497	13,362	1,668	17,341	148,442		9,651
Season Nitrogen Ratio:		1.38		Lbs Per Acre:				382	48	495	4,241			276

Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: 2

Corn, 35 Acres Planted on 07/26/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
08/07/2023	Surface Water: Tulare	5.01	Acre Inches	0.00			mg/L			0	0	0	1,190	
08/07/2023	Waste Water: Main Lagoon	0.81	Acre Inches	490.00	55.50	466.00	mg/L	769,824	3,142	356	2,988	31,422		
08/22/2023	Surface Water: Tulare	6.29	Acre Inches				mg/L			0	0	0	0	
09/06/2023	Surface Water: Tulare	5.14	Acre Inches	0.00			mg/L			0	0	0	1,221	
09/06/2023	Waste Water: Main Lagoon	0.83	Acre Inches	490.00	55.50	466.00	mg/L	788,832	3,220	365	3,062	32,198		
09/20/2023	Ground Water: Well Avg	6.44	Acre Inches	36.60			mg/L			1,866	0	0	28,551	
10/04/2023	Ground Water: Well Avg	5.01	Acre Inches	36.60			mg/L			1,452	0	0	22,211	
10/14/2023	Ground Water: Well Avg	5.66	Acre Inches	36.60			mg/L			1,640	0	0	25,093	
10/25/2023	Harvest	31.00	Tons	66.00	1.23	0.29	1.57 %							9,075
Acre Inches Applied:		35.19		Totals:				1,558,657	11,320	721	6,050	141,886	9,075	
Season Nitrogen Ratio:		1.25		Lbs Per Acre:				323	21	173	4,054	259		



Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: 3

Wheat, 70 Acres Planted on 12/21/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			980					
01/14/2023	Ground Water: Well Avg	4.09	Acre Inches	36.60		mg/L			2,370	0	0	36,266		
01/14/2023	Waste Water: Main Lagoon	0.77	Acre Inches	526.00	53.80	965.00	mg/L		1,463,617	6,413	656	11,765	68,274	
03/13/2023	Surface Water: Tulare	4.45	Acre Inches			mg/L			0	0	0	0	0	
03/13/2023	Waste Water: Main Lagoon	0.84	Acre Inches	526.00	53.80	965.00	mg/L		1,596,673	6,996	715	12,834	74,481	
05/10/2023	Surface Water: Tulare	4.39	Acre Inches	0.00		mg/L			0	0	0	2,085		
05/10/2023	Waste Water: Main Lagoon	0.83	Acre Inches	525.00	143.00	718.00	mg/L		1,577,665	6,899	1,880	9,436	70,835	
05/25/2023	Harvest	20.90	Tons	60.80	1.62	0.38	2.25 %							18,582
Acre Inches Applied:		15.37		Totals:				4,637,954	23,658	3,251	34,035	251,942	18,582	
Season Nitrogen Ratio:		1.27		Lbs Per Acre:				338	46	486	3,599	265		



Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: 3

Corn, 70 Acres Planted on 07/11/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
07/23/2023	Surface Water: Tulare	4.87	Acre Inches	0.00			mg/L			0	0	0	2,314	
07/23/2023	Waste Water: Main Lagoon	0.78	Acre Inches	490.00	55.50	466.00	mg/L	1,482,625	6,052	685	5,755	60,516		
08/07/2023	Surface Water: Tulare	5.89	Acre Inches				mg/L			0	0	0	0	
08/22/2023	Surface Water: Tulare	4.94	Acre Inches	0.00			mg/L			0	0	0	2,346	
08/22/2023	Waste Water: Main Lagoon	0.79	Acre Inches	490.00	55.50	466.00	mg/L	1,501,633	6,129	694	5,829	61,292		
09/05/2023	Ground Water: Well Avg	5.97	Acre Inches	36.60			mg/L			3,459	0	0	52,935	
09/19/2023	Ground Water: Well Avg	4.87	Acre Inches	36.60			mg/L			2,822	0	0	43,182	
09/29/2023	Ground Water: Well Avg	5.58	Acre Inches	36.60			mg/L			3,234	0	0	49,477	
10/10/2023	Harvest	30.60	Tons	71.60	1.70	0.33	1.30	%						20,683
Acre Inches Applied:		33.69		Totals:				2,984,258	21,696	1,380	11,584	272,063	20,683	
Season Nitrogen Ratio:		1.05		Lbs Per Acre:				310	20	165	3,887	295		



Westwood Farms LLC 2023 Nutrient Applications (Attachment B)

Field Name: 4

Wheat, 56 Acres Planted on 12/22/2022

Date	Event/Source	Amount Applied/Yield (per Acre) Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00 Pounds	100.00		%			784					
01/15/2023	Waste Water: Main Lagoon	0.77 Acre Inches	526.00	53.80	965.00	mg/L		1,170,893	5,130	525	9,412	54,620	
03/14/2023	Surface Water: Tulare	4.51 Acre Inches			mg/L			0	0	0	0	0	
03/14/2023	Waste Water: Main Lagoon	0.85 Acre Inches	526.00	53.80	965.00	mg/L		1,292,545	5,663	579	10,390	60,295	
05/11/2023	Surface Water: Tulare	4.43 Acre Inches		0.00		mg/L		0	0	0	0	1,683	
05/11/2023	Waste Water: Main Lagoon	0.84 Acre Inches	525.00	143.00	718.00	mg/L		1,277,338	5,586	1,522	7,640	57,351	
05/26/2023	Harvest	18.80 Tons	61.70	1.64	0.38	2.24 %							13,226
Acre Inches Applied:		11.40	Totals:					3,740,776	17,163	2,625	27,442	173,948	13,226
Season Nitrogen Ratio:		1.30	Lbs Per Acre:					306	47	490	3,106		236

Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: 4

Corn, 56 Acres Planted on 08/09/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
08/21/2023	Surface Water: Tulare	5.80	Acre Inches	0.00		mg/L		0	0	0	0	2,204		
08/21/2023	Waste Water: Main Lagoon	0.93	Acre Inches	490.00	55.50	466.00	mg/L	1,414,196	5,772	654	5,490	57,723		
09/05/2023	Surface Water: Tulare	7.08	Acre Inches			mg/L		0	0	0	0	0		
09/20/2023	Surface Water: Tulare	5.90	Acre Inches	0.00		mg/L		0	0	0	0	2,242		
10/04/2023	Ground Water: Well Avg	7.20	Acre Inches	36.60		mg/L		3,338	0	0	0	51,073		
10/18/2023	Ground Water: Well Avg	5.80	Acre Inches	36.60		mg/L		2,689	0	0	0	41,142		
10/28/2023	Ground Water: Well Avg	6.62	Acre Inches	36.60		mg/L		3,069	0	0	0	46,959		
11/08/2023	Harvest	28.20	Tons	70.90	1.22	0.24	1.26 %						11,213	
Acre Inches Applied:		39.33		Totals:				1,414,196	14,869	654	5,490	201,344	11,213	
Season Nitrogen Ratio:		1.33		Lbs Per Acre:				266	12	98	3,595	200		



Westwood Farms LLC 2023 Nutrient Applications (Attachment B)

Field Name: 5

Wheat, 37 Acres Planted on 12/23/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00			%			518				
01/16/2023	Ground Water: Well Avg	3.98	Acre Inches	36.60			mg/L			1,219	0	0	18,653	
01/16/2023	Waste Water: Main Lagoon	0.75	Acre Inches	526.00	53.80	965.00	mg/L		753,532	3,302	338	6,057	35,151	
03/15/2023	Surface Water: Tulare	4.66	Acre Inches				mg/L			0	0	0	0	
03/15/2023	Waste Water: Main Lagoon	0.88	Acre Inches	526.00	53.80	965.00	mg/L		884,144	3,874	396	7,107	41,244	
05/12/2023	Surface Water: Tulare	4.55	Acre Inches	0.00			mg/L			0	0	0	1,143	
05/12/2023	Waste Water: Main Lagoon	0.86	Acre Inches	525.00	143.00	718.00	mg/L		864,050	3,779	1,029	5,168	38,795	
05/27/2023	Harvest	22.00	Tons	57.50	1.41	0.31	1.71	%						9,756
Acre Inches Applied:		15.68		Totals:				2,501,726	12,691	1,763	18,332	134,985	9,756	
Season Nitrogen Ratio:		1.30		Lbs Per Acre:						343	48	495	3,648	264



Westwood Farms LLC 2023 Nutrient Applications (Attachment B)

Field Name: 5

Corn, 37 Acres Planted on 07/26/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
08/07/2023	Surface Water: Tulare	5.90	Acre Inches	0.00			mg/L			0	0	0	1,481	
08/07/2023	Waste Water: Main Lagoon	0.65	Acre Inches	490.00	55.50	466.00	mg/L		653,061	2,665	302	2,535	26,656	
08/22/2023	Surface Water: Tulare	6.38	Acre Inches	0.00			mg/L			0	0	0	1,602	
09/06/2023	Surface Water: Tulare	6.05	Acre Inches	0.00			mg/L			0	0	0	1,519	
09/06/2023	Waste Water: Main Lagoon	0.41	Acre Inches	490.00	55.50	466.00	mg/L		411,931	1,681	191	1,599	16,814	
09/20/2023	Ground Water: Well Avg	6.55	Acre Inches	36.60			mg/L			2,007	0	0	30,698	
10/04/2023	Ground Water: Well Avg	5.90	Acre Inches	36.60			mg/L			1,807	0	0	27,652	
10/14/2023	Ground Water: Well Avg	5.68	Acre Inches	36.60			mg/L			1,740	0	0	26,621	
10/25/2023	Harvest	29.50	Tons	66.00	1.04	0.26	0.97	%						7,719
Acre Inches Applied:		37.52		Totals:					1,064,992	9,900	492	4,134	133,043	7,719
Season Nitrogen Ratio:		1.28		Lbs Per Acre:					268	13	112	3,596	209	



Westwood Farms LLC 2023 Nutrient Applications (Attachment B)

Field Name: 6

Wheat, 42 Acres Planted on 12/23/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00			%			588				
01/19/2023	Ground Water: Well Avg	4.01	Acre Inches	36.60			mg/L			1,394	0	0	21,333	
01/19/2023	Waste Water: Main Lagoon	0.76	Acre Inches	526.00	53.80	965.00	mg/L			866,765	3,798	388	6,967	40,433
03/18/2023	Surface Water: Tulare	4.61	Acre Inches				mg/L			0	0	0	0	
03/18/2023	Waste Water: Main Lagoon	0.87	Acre Inches	526.00	53.80	965.00	mg/L			992,218	4,347	445	7,976	46,285
05/15/2023	Surface Water: Tulare	4.51	Acre Inches	0.00			mg/L			0	0	0	1,285	
05/15/2023	Waste Water: Main Lagoon	0.65	Acre Inches	525.00	143.00	718.00	mg/L			741,312	3,242	883	4,434	33,284
05/27/2023	Harvest	21.00	Tons	63.90	1.58	0.27	2.14	%						10,062
Acre Inches Applied:		15.41		Totals:				2,600,296	13,369	1,716	19,377	142,621	10,062	
Season Nitrogen Ratio:		1.33		Lbs Per Acre:						318	41	461	3,396	240



Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: 6

Corn, 42 Acres Planted on 08/09/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
08/21/2023	Surface Water: Tulare	5.87	Acre Inches	0.00			mg/L			0	0	0	1,673	
08/21/2023	Waste Water: Main Lagoon	0.74	Acre Inches	490.00	55.50	466.00	mg/L		843,956	3,445	390	3,276	34,448	
09/05/2023	Surface Water: Tulare	6.27	Acre Inches	0.00			mg/L			0	0	0	1,787	
09/20/2023	Surface Water: Tulare	6.00	Acre Inches	0.00			mg/L			0	0	0	1,710	
09/20/2023	Waste Water: Main Lagoon	0.43	Acre Inches	1,300.00	200.00	695.00	mg/L		490,407	5,310	817	2,839	18,996	
10/04/2023	Ground Water: Well Avg	6.43	Acre Inches	36.60			mg/L			2,236	0	0	34,208	
10/18/2023	Ground Water: Well Avg	5.87	Acre Inches	36.60			mg/L			2,041	0	0	31,229	
10/28/2023	Ground Water: Well Avg	6.65	Acre Inches	36.60			mg/L			2,312	0	0	35,379	
11/08/2023	Harvest	29.35	Tons	67.90	1.53	0.24	1.14	%						12,108
Acre Inches Applied:		38.26		Totals:					1,334,362	15,344	1,207	6,115	159,429	12,108
Season Nitrogen Ratio:		1.27		Lbs Per Acre:					365	29	146	3,796	288	



Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: 7

Corn, 31 Acres Planted on 05/05/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			434					
05/17/2023	Surface Water: Tulare	5.68	Acre Inches	0.00		mg/L			0	0	0	1,195		
05/17/2023	Waste Water: Main Lagoon	0.97	Acre Inches	525.00	143.00	718.00	mg/L	816,530	3,571	973	4,884	36,661		
06/01/2023	Surface Water: Tulare	6.26	Acre Inches	0.00		mg/L			0	0	0	1,317		
06/16/2023	Surface Water: Tulare	5.85	Acre Inches	0.00		mg/L			0	0	0	1,231		
06/16/2023	Waste Water: Main Lagoon	1.00	Acre Inches	525.00	143.00	718.00	mg/L	841,783	3,681	1,003	5,035	37,795		
06/30/2023	Surface Water: Tulare	6.46	Acre Inches	0.00		mg/L			0	0	0	1,359		
07/14/2023	Surface Water: Tulare	5.68	Acre Inches			mg/L			0	0	0	0		
07/14/2023	Waste Water: Main Lagoon	0.97	Acre Inches	490.00	55.50	466.00	mg/L	816,530	3,333	378	3,169	33,328		
07/24/2023	Surface Water: Tulare	6.25	Acre Inches			mg/L			0	0	0	0		
08/04/2023	Harvest	28.60	Tons	54.20	1.21	0.23	1.27	%						9,827
Acre Inches Applied:		39.12		Totals:				2,474,843	11,019	2,353	13,088	112,886	9,827	
Season Nitrogen Ratio:		1.12		Lbs Per Acre:				355	76	422	3,641	317		



Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: 8

Wheat, 39 Acres Planted on 12/23/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			546					
01/13/2023	Surface Water: Tulare	4.50	Acre Inches	0.00		mg/L			0	0	0	1,191		
01/13/2023	Waste Water: Main Lagoon	0.75	Acre Inches	526.00	53.80	965.00	mg/L	794,263	3,480	356	6,385	37,051		
03/12/2023	Surface Water: Tulare	4.64	Acre Inches			mg/L			0	0	0	0	0	
03/12/2023	Waste Water: Main Lagoon	0.88	Acre Inches	526.00	53.80	965.00	mg/L	931,936	4,083	418	7,492	43,473		
05/09/2023	Surface Water: Tulare	4.53	Acre Inches	0.00		mg/L			0	0	0	1,199		
05/09/2023	Waste Water: Main Lagoon	0.86	Acre Inches	525.00	143.00	718.00	mg/L	910,755	3,983	1,085	5,447	40,892		
05/27/2023	Harvest	20.00	Tons	59.60	1.41	0.31	2.19	%						8,887
Acre Inches Applied:		16.16		Totals:				2,636,954	12,092	1,859	19,323	123,806	8,887	
Season Nitrogen Ratio:		1.36		Lbs Per Acre:				310	48	495	3,174	228		

Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: 8

Corn, 39 Acres Planted on 07/18/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
07/30/2023	Surface Water: Tulare	5.89	Acre Inches	0.00		mg/L		0	0	0	0	1,559		
07/30/2023	Waste Water: Main Lagoon	0.65	Acre Inches	490.00	55.50	466.00	mg/L	688,362	2,810	318	2,672	28,097		
08/14/2023	Surface Water: Tulare	6.33	Acre Inches	0.00		mg/L		0	0	0	0	1,675		
08/29/2023	Surface Water: Tulare	6.03	Acre Inches	0.00		mg/L		0	0	0	0	1,596		
08/29/2023	Waste Water: Main Lagoon	0.67	Acre Inches	490.00	55.50	466.00	mg/L	709,542	2,896	328	2,754	28,961		
09/12/2023	Ground Water: Well Avg	6.50	Acre Inches	36.60		mg/L		2,099	0	0	0	32,111		
09/26/2023	Ground Water: Well Avg	5.89	Acre Inches	36.60		mg/L		1,902	0	0	0	29,097		
10/06/2023	Ground Water: Well Avg	6.67	Acre Inches	36.60		mg/L		2,154	0	0	0	32,950		
10/17/2023	Harvest	29.80	Tons	70.30	1.26	0.26	1.05 %							8,699
Acre Inches Applied:		38.63		Totals:				1,397,903	11,860	646	5,426	156,046		8,699
Season Nitrogen Ratio:		1.36		Lbs Per Acre:				304	17	139	4,001			223

Westwood Farms LLC 2023 Nutrient Applications (Attachment B)

Field Name: 9

Wheat, 8 Acres Planted on 12/23/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00			%			112				
01/21/2023	Ground Water: Well Avg	2.52	Acre Inches	36.60			mg/L			167	0	0	2,554	
01/21/2023	Waste Water: Main Lagoon	0.48	Acre Inches	526.00	53.80	965.00	mg/L		104,273	457	47	838	4,864	
03/20/2023	Surface Water: Tulare	5.05	Acre Inches				mg/L			0	0	0	0	
03/20/2023	Waste Water: Main Lagoon	0.95	Acre Inches	526.00	53.80	965.00	mg/L		206,373	904	92	1,659	9,627	
05/17/2023	Surface Water: Tulare	4.63	Acre Inches	0.00			mg/L			0	0	0	251	
05/17/2023	Waste Water: Main Lagoon	0.87	Acre Inches	525.00	143.00	718.00	mg/L		188,994	826	225	1,130	8,486	
05/27/2023	Harvest	19.40	Tons	61.40	1.60	0.37	2.46	%						1,917
Acre Inches Applied:		14.50		Totals:				499,639	2,466	364	3,627	25,782	1,917	
Season Nitrogen Ratio:		1.29		Lbs Per Acre:				308	46	453	3,223	240		



Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: 9

Corn, 8 Acres Planted on 07/18/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
07/30/2023	Ground Water: Well Avg	5.63	Acre Inches	36.60			mg/L			373	0	0	5,705	
08/07/2023	Surface Water: Tulare	5.38	Acre Inches	0.00			mg/L			0	0	0	292	
08/07/2023	Waste Water: Main Lagoon	0.87	Acre Inches	490.00	55.50	466.00	mg/L		188,994	771	87	734	7,714	
08/19/2023	Surface Water: Tulare	7.13	Acre Inches	0.00			mg/L			0	0	0	387	
09/03/2023	Surface Water: Tulare	5.92	Acre Inches	0.00			mg/L			0	0	0	321	
09/03/2023	Waste Water: Main Lagoon	0.85	Acre Inches	490.00	55.50	466.00	mg/L		184,649	754	85	717	7,537	
09/17/2023	Ground Water: Well Avg	7.75	Acre Inches	36.60			mg/L			513	0	0	7,854	
10/01/2023	Ground Water: Well Avg	5.38	Acre Inches	36.60			mg/L			356	0	0	5,452	
10/17/2023	Harvest	28.70	Tons	68.20	1.39	0.26	1.24	%						2,030
Acre Inches Applied:		38.91		Totals:				373,643	2,768	173	1,450	35,262	2,030	
Season Nitrogen Ratio:		1.36		Lbs Per Acre:				346	22	181	4,408	254		

Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: CM1

Corn, 49 Acres Planted on 04/25/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00			%			686				
05/07/2023	Surface Water: Tulare	6.51	Acre Inches	0.00			mg/L			0	0	0	2,165	
05/22/2023	Fertilize - UN32	30.00	Gallons	32.00	0.00	0.00	%			3,919	0	0	0	0
05/22/2023	Surface Water: Tulare	6.89	Acre Inches	0.00			mg/L			0	0	0	2,291	
06/06/2023	Surface Water: Tulare	6.63	Acre Inches	0.00			mg/L			0	0	0	2,205	
06/20/2023	Fertilize - UN32	30.00	Gallons	32.00	0.00	0.00	%			3,919	0	0	0	0
06/20/2023	Surface Water: Tulare	7.02	Acre Inches	0.00			mg/L			0	0	0	2,334	
07/04/2023	Surface Water: Tulare	6.51	Acre Inches	0.00			mg/L			0	0	0	2,165	
07/14/2023	Surface Water: Tulare	6.25	Acre Inches	0.00			mg/L			0	0	0	2,078	
08/04/2023	Harvest	27.20	Tons	51.30	1.38	0.24	1.17	%						17,914
Acre Inches Applied:		39.81		Totals:						8,523	0	0	13,237	17,914
Season Nitrogen Ratio:		0.48		Lbs Per Acre:						174	0	0	270	366

Westwood Farms LLC 2023 Nutrient Applications (Attachment B)

Field Name: CM2

Walnuts, 43 Acres Planted on 06/01/2017

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.							
11/18/2022	Ground Water: Well Avg	3.40	Acre Inches		26.32					870	0	0	0	12,633
12/23/2022	Fertilize (10-34-0)	15.00	Pounds		10.00	34.00	0.00	%		64	219	0	0	0
12/23/2022	Ground Water: Well Avg	3.33	Acre Inches		26.32					853	0	0	0	12,372
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%		602				
01/27/2023	Surface Water: Tulare	3.10	Acre Inches							0	0	0	0	0
02/24/2023	Surface Water: Tulare	3.40	Acre Inches							0	0	0	0	0
03/23/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		1,146	0	0	0	0
03/23/2023	Surface Water: Tulare	3.33	Acre Inches							0	0	0	0	0
04/20/2023	Surface Water: Tulare	3.25	Acre Inches							0	0	0	0	0
05/15/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		1,146	0	0	0	0
05/15/2023	Surface Water: Tulare	3.55	Acre Inches							0	0	0	0	0
06/09/2023	Surface Water: Tulare	3.63	Acre Inches							0	0	0	0	0
07/04/2023	Surface Water: Tulare	3.40	Acre Inches							0	0	0	0	0
07/29/2023	Surface Water: Tulare	2.87	Acre Inches							0	0	0	0	0
08/23/2023	Ground Water: Well Avg	3.33	Acre Inches		36.60					1,186	0	0	18,138	
09/19/2023	Harvest	3.60	Tons		19.90	2.48	0.25	3.01	%					6,150
Acre Inches Applied:		36.59							Totals:	5,868	219	0	43,143	6,150
Season Nitrogen Ratio:		0.95							Lbs Per Acre:	136	5	0	1,003	143



Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: CM3

Wheat, 23 Acres Planted on 12/20/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				%	Moist.	Nitrogen	Phos.							
12/01/2022	Corral Solids: Main Corral	8.00	Tons	48.50	2.14	0.76	3.27	%	184	4,056	1,431	6,197	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%		322				
01/13/2023	Ground Water: Well Avg	3.65	Acre Inches		36.60			mg/L		695	0	0	10,634	
03/12/2023	Surface Water: Tulare	4.70	Acre Inches					mg/L		0	0	0	0	
05/09/2023	Surface Water: Tulare	4.52	Acre Inches					mg/L		0	0	0	0	
05/24/2023	Harvest	19.10	Tons	65.30	1.49	0.37	2.20	%						4,543
Acre Inches Applied:		12.87		Totals:					184	5,073	1,431	6,197	10,634	4,543
Season Nitrogen Ratio: 1.12				Lbs Per Acre:					221	62	269	462	198	

Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: CM3

Corn, 23 Acres Planted on 07/06/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.							
06/20/2023	Corral Solids: Main Corral	3.00	Tons	15.80	2.87	0.36	0.60	%	69	3,335	424	693	0	
07/18/2023	Surface Water: Tulare	5.98	Acre Inches		0.00			mg/L		0	0	0	933	
08/02/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		613	0	0	0	
08/02/2023	Surface Water: Tulare	6.70	Acre Inches		0.00			mg/L		0	0	0	1,046	
08/17/2023	Surface Water: Tulare	5.98	Acre Inches		0.00			mg/L		0	0	0	933	
08/31/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		613	0	0	0	
08/31/2023	Surface Water: Tulare	6.93	Acre Inches		0.00			mg/L		0	0	0	1,082	
09/14/2023	Surface Water: Tulare	5.98	Acre Inches		0.00			mg/L		0	0	0	933	
09/24/2023	Surface Water: Tulare	5.50	Acre Inches		0.00			mg/L		0	0	0	858	
10/05/2023	Harvest	30.10	Tons	65.70	0.74	0.32	1.09	%						3,519
Acre Inches Applied:		37.07		Totals:					69	4,561	424	693	5,786	3,519
Season Nitrogen Ratio:		1.30		Lbs Per Acre:					198	18	30	252	153	

Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: CM4

Wheat, 37 Acres Planted on 12/20/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.	Units							
12/01/2022	Corral Solids: Main Corral	8.00	Tons	48.50	2.14	0.76	3.27	%	296		6,525	2,302	9,970	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			518				
01/11/2023	Surface Water: Tulare	3.65	Acre Inches					mg/L			0	0	0	0	
03/10/2023	Surface Water: Tulare	4.70	Acre Inches					mg/L			0	0	0	0	
05/07/2023	Surface Water: Tulare	4.52	Acre Inches					mg/L			0	0	0	0	
05/24/2023	Harvest	18.95	Tons	62.50	1.51	0.35	1.88	%							7,941
Acre Inches Applied:		12.87		Totals:					296		7,043	2,302	9,970	0	7,941
Season Nitrogen Ratio:		0.89		Lbs Per Acre:							190	62	269	0	215

Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: CM4

Corn, 37 Acres Planted on 07/06/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.							
06/26/2023	Corral Solids: Main Corral	3.00	Tons	15.80	2.87	0.36	0.60	%	111	5,365	682	1,114	0	
07/16/2023	Surface Water: Tulare	5.80	Acre Inches		0.00			mg/L		0	0	0	1,456	
07/31/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	0.00	%		986	0	0	0	0
07/31/2023	Surface Water: Tulare	6.24	Acre Inches		0.00			mg/L		0	0	0	1,567	
08/15/2023	Surface Water: Tulare	5.95	Acre Inches		0.00			mg/L		0	0	0	1,494	
08/29/2023	Fertilize - UN32	10.00	Gallons	32.00	0.00	0.00	0.00	%		986	0	0	0	0
08/29/2023	Surface Water: Tulare	6.39	Acre Inches		0.00			mg/L		0	0	0	1,604	
09/12/2023	Surface Water: Tulare	5.80	Acre Inches		0.00			mg/L		0	0	0	1,456	
09/22/2023	Surface Water: Tulare	5.80	Acre Inches		0.00			mg/L		0	0	0	1,456	
10/05/2023	Harvest	30.30	Tons	63.90	0.77	0.31	1.12	%						6,241
Acre Inches Applied:		35.98		Totals:				111	7,337	682	1,114	9,034	6,241	
Season Nitrogen Ratio:		1.18		Lbs Per Acre:					198	18	30	244	169	

Westwood Farms LLC 2023 Nutrient Applications (Attachment B)

Field Name: CM5

Wheat, 36 Acres Planted on 12/20/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
11/30/2022	Corral Solids: Main Corral	8.00	Tons	48.50	2.14	0.76	3.27	%	288	6,348	2,240	9,700	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00				%		504				
01/15/2023	Surface Water: Tulare	3.78	Acre Inches					mg/L		0	0	0	0	
03/14/2023	Surface Water: Tulare	4.44	Acre Inches					mg/L		0	0	0	0	
05/11/2023	Surface Water: Tulare	4.33	Acre Inches					mg/L		0	0	0	0	
05/24/2023	Harvest	18.60	Tons	64.20	1.49	0.37	2.12	%						7,143
Acre Inches Applied:		12.55		Totals:				288	6,852	2,240	9,700	0	0	7,143
Season Nitrogen Ratio:		0.96		Lbs Per Acre:					190	62	269	0	0	198

Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: CM5

Corn, 36 Acres Planted on 07/26/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.	Units							
07/01/2023	Corral Solids: Main Corral	3.00	Tons	15.80	2.87	0.36	0.60	%	108		5,220	664	1,084	0	
08/05/2023	Surface Water: Tulare	6.33	Acre Inches		0.00			mg/L			0	0	0	1,546	
08/20/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%			960	0	0	0	
08/20/2023	Surface Water: Tulare	6.83	Acre Inches		0.00			mg/L			0	0	0	1,669	
09/04/2023	Surface Water: Tulare	6.50	Acre Inches		0.00			mg/L			0	0	0	1,588	
09/18/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%			960	0	0	0	
09/18/2023	Surface Water: Tulare	7.00	Acre Inches		0.00			mg/L			0	0	0	1,710	
10/02/2023	Surface Water: Tulare	6.33	Acre Inches		0.00			mg/L			0	0	0	1,546	
10/12/2023	Surface Water: Tulare	6.00	Acre Inches		0.00			mg/L			0	0	0	1,466	
10/25/2023	Harvest	30.20	Tons	72.50	1.23	0.25	1.29	%						7,355	
Acre Inches Applied:		38.99		Totals:					108		7,139	664	1,084	9,525	7,355
Season Nitrogen Ratio:		0.97		Lbs Per Acre:							198	18	30	265	204

Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: CM6

Wheat, 55 Acres Planted on 12/25/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.							
12/02/2022	Corral Solids: Main Corral	8.00	Tons	48.50	2.14	0.76	3.27	%	440	9,699	3,422	14,820	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%		770				
01/18/2023	Surface Water: Tulare	3.85	Acre Inches					mg/L		0	0	0	0	
03/17/2023	Surface Water: Tulare	4.29	Acre Inches					mg/L		0	0	0	0	
05/14/2023	Surface Water: Tulare	4.22	Acre Inches					mg/L		0	0	0	0	
05/29/2023	Harvest	18.70	Tons	59.80	1.27	0.29	1.00	%						10,502
Acre Inches Applied:		12.36		Totals:					440	10,469	3,422	14,820	0	10,502
Season Nitrogen Ratio:		1.00		Lbs Per Acre:					190	62	269	0	191	

Westwood Farms LLC 2023

Nutrient Applications (Attachment B)

Field Name: CM6

Corn, 55 Acres Planted on 07/26/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/25/2023	Corral Solids: Main Corral	3.00	Tons	15.80	2.87	0.36	0.60	%	165	7,974	1,014	1,656	0	
08/09/2023	Surface Water: Tulare	6.22	Acre Inches		0.00			mg/L		0	0	0	2,322	
08/24/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		1,466	0	0	0	
08/24/2023	Surface Water: Tulare	6.55	Acre Inches		0.00			mg/L		0	0	0	2,445	
09/08/2023	Surface Water: Tulare	6.33	Acre Inches		0.00			mg/L		0	0	0	2,362	
09/22/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%		1,466	0	0	0	
09/22/2023	Surface Water: Tulare	6.65	Acre Inches		0.00			mg/L		0	0	0	2,482	
10/06/2023	Surface Water: Tulare	6.22	Acre Inches		0.00			mg/L		0	0	0	2,322	
10/15/2023	Surface Water: Tulare	6.00	Acre Inches		0.00			mg/L		0	0	0	2,240	
10/25/2023	Harvest	29.90	Tons	70.80	1.06	0.25	1.08	%						10,180
Acre Inches Applied:		37.97		Totals:					165	10,907	1,014	1,656	14,172	10,180
Season Nitrogen Ratio:		1.07		Lbs Per Acre:					198	18	30	258	185	

Westwood Farms LLC 2023 Nutrient Applications (Attachment B)

Summary of Nutrient Applications, Removal, and Balance

	<u>Total N (Lbs)</u>	<u>Total P (Lbs)</u>	<u>Total K (Lbs)</u>	<u>Total Salts (Lbs)</u>	<u>Total Manure Applied</u>
Solid Manure	48,520.83	12,178.15	45,233.56	0.00	1,661.00 tons
Process Wastewater	143,250.87	21,581.52	199,421.31	1,444,880.43	32,739,396.42 gallons
Irrigation Water	58,884.68				
Fertilizer / Total Imports	18,245.64				
Atmospheric Deposition	8,064.00				
Total Nitrogen Applied	276,966.02				
Crop Nitrogen Removal	242,052.66				
Nitrogen Balance	34,913.36				
Nitrogen Ratio	1.14				

- Nutrient applications shown in Attachment B are on a crop year basis.
 - Lab sample data results for applications are based on the sample taken closest to the application date. Lab sample data results are shown on 100% dry basis for manure applications and harvest events.
 - Well Avg: Irrigation source representing the average nutrient values of all irrigation wells sampled for the facility during the reporting year.
- ** Book Value: No sample data results were available. For manure applications and plant tissue harvests, the calculations were based off book values.



Westwood Farms LLC 2023 Nutrient Applications (Attachment B)

FIELD NITROGEN RATIO Calculation:

"Field Nitrogen Ratio" = "Total Nitrogen Applied to Field" / "Total Nitrogen Extracted from Field at Harvest"

ATMOSHERIC DEPOSITION Applied (Lbs) Calculation:

"Nitrogen Applied (Lbs)" = "14 Lbs (per year) * "Acres Planted"

HARVEST Nitrogen Extraction (Lbs) Calculation:

"Nitrogen Extracted (Lbs)" = ("Yield" (tons per acre) * 2000) * ((100 - "% Moisture") / 100 * "Lab Sample Data Nitrogen Value" / 100) * "Acres Planted"

IRRIGATION Nitrogen and Salts Applied (Lbs) Calculations:

"Nitrogen Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Nitrogen Value" * 0.000001) * "Acres Planted"

"Salts Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data TDS Value" * 0.000001) * "Acres Planted"

PROCESS WASTEWATER Nitrogen, Phosphorus, Potassium and Salts Applied (Lbs) Calculations:

Nitrogen Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Nitrogen Value" * 0.000001) * "Acres Planted"

Phosphorus Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Phosphorus Value" * 0.000001) * "Acres Planted"

Potassium Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Potassium Value" * 0.000001) * "Acres Planted"

Salt Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data TDS Value" * 0.000001) * "Acres Planted"

SOLID MANURE (Corral, Separator, or Compost) Nitrogen, Phosphorus, Potassium and Salts Applied (Lbs) Calculations:

Nitrogen Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Nitrogen Value"/100) * "Acres Planted"

Phosphorus Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Phosphorus Value"/100) * "Acres Planted"

Potassium Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Potassium Value"/100) * "Acres Planted"

Salt Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Ash Value"/100) * "Acres Planted"

"Lbs Applied per Acre" Calculations:

If "Application Units" = Tons, Then "Lbs Applied per Acre" = "Application Amount" (per Acre) * 2000

If "Application Units" = Acres Inches, Then "Lbs Applied per Acre" = "Application Amount" (per Acre) * 8.33 *27,154.3

If "Application Units" = Acre Feet, Then Lbs Applied per Acre" = "Application Amount" (per Acre) * 8.33 * 325,851

If "Application Units" = Gallons, Then "Lbs Applied per Acre" = "Application Amount" (per Acre) * 8.33

Westwood Farms LLC 2023
Estimated Manure and Process Wastewater/Nutrients Transferred Off-Site (Attachment C)

A. ESTIMATED TOTAL MANURE TRANSFERRED OFFSITE

Total Manure Exported (tons)*	Total Nitrogen Exported (lbs)**	Total Phosphorus Exported (lbs)**	Total Potassium Exported (lbs)**	Total Salts Exported (lbs)**
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* The Total Manure (tons) should be calculated as the sum of all manure transferred offsite as reported in all the Manure/Process Wastewater Tracking Manifests for the reporting period.

** Total (N, P, K, Salts) (lbs) = Sum of (N, P, K, Salts) for each manure export event based on (Manure(tons) x 2000lb/ton) x ((100-moisture%)/100) x (N, P, K, and Ash) Concentration (%), dry weight) / 100 using the samples closest in date to the export event.

B. ESTIMATED TOTAL PROCESS WASTEWATER TRANSFERRED OFFSITE

Total Process Wastewater Exported (gal)*	Total Nitrogen Exported (lbs)**	Total Phosphorus Exported (lbs)**	Total Potassium Exported (lbs)**	Total TDS Exported (lbs)**
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* The Total Manure (gals) should be calculated as the sum of all manure transferred offsite as reported in all the Manure/Process Wastewater Tracking Manifests for the reporting period.

** Total (Nitrogen, Phosphorus, Potassium, TDS) (lbs) = Sum of (Nitrogen, Phosphorus, Potassium, TDS) for each wastewater export event based on (Process Wastewater(gals) x 8.33lb/gal) x (NO₃-N or TKN, P, K, TDS) x 10-6 using the samples closest in date to the export event.



Westwood Farms LLC 2023
Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
1	x158 x090 x047 xxxx	15	Process Wastewater
2	x158 x090 x012 xxxx	35	Process Wastewater
3	x158 x090 x037 xxxx	70	Process Wastewater
4	x158 x090 x047 xxxx	56	Process Wastewater
5	x158 x090 x012 xxxx	37	Process Wastewater
6	x158 x090 x006 xxxx	42	Process Wastewater
7	x158 x090 x006 xxxx	31	Process Wastewater
8	x158 x090 x005 xxxx	39	Process Wastewater
9	x158 x090 x037 xxxx	8	Process Wastewater
CM1	x148 x010 x058 xxxx	49	None
CM2	x148 x010 x060 xxxx	43	None
CM3	x148 x010 x003 xxxx	23	Manure
CM4	x148 x010 x058 xxxx, x148 x010 x059 xxxx	37	Manure
CM5	x147 x070 x003 xxxx	36	Manure
CM6	x147 x070 x003 xxxx, x147 x080 x003 xxxx	55	Manure
		576	

Production Area APN(s): x158 x090 x037 xxxx

Westwood Farms LLC 2023 Lab Results Summary (Attachment E)

Process Wastewater

(mg/l/ppm unless noted otherwise)

Sample Date:	TKN	TP	TK	EC (umhos/cm)	NH4N	NO3N	TDS	pH (units)	General Minerals					
									CA	MG	NA	HCO3	CO3	SO4
02/13/2023	526.00	53.80	965.00	8,440	435.00		5,600.00							
06/09/2023	525.00	143.00	718.00	8,120	512.00	0.00	5,390.00	7.59						
07/12/2023	490.00	55.50	466.00	7,380	417.00		4,900.00							
11/06/2023	1,300.00	200.00	695.00	7,000	540.00		4,650.00							
Averages:	710.25	113.08	711.00	7,735	476.00	0.00	5,135.00	7.59						

Manure - Corral Solids

(Dry Weight Basis)

Sample Date:	TN	TP	TK	Moisture	Ash	CA	MG	NA	S	CL
06/09/2023	2.87	0.36	0.60	15.80						%
11/06/2023	2.50	0.37	0.41	29.60						%
Averages:	2.68	0.37	0.50	22.70						

Plant Tissue

(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
1	1	Wheat	05/26/2023	28.60	6.42	33.00	59.30	10.00
1	2	Corn	10/17/2023	23.40	6.04	20.20	64.30	5.03



Westwood Farms LLC 2023 Lab Results Summary (Attachment E)

Plant Tissue

(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
2	1	Wheat	05/27/2023	30.20	6.74	37.60	56.00	9.24
2	2	Corn	10/25/2023	24.60	5.86	31.40	66.00	6.43
3	1	Wheat	05/25/2023	32.40	7.58	45.00	60.80	11.60
3	2	Corn	10/10/2023	34.00	6.58	26.00	71.60	5.98
4	1	Wheat	05/26/2023	32.80	7.50	44.80	61.70	10.10
4	2	Corn	11/08/2023	24.40	4.80	25.20	70.90	4.59
5	1	Wheat	05/27/2023	28.20	6.12	34.20	57.50	10.10
5	2	Corn	10/25/2023	20.80	5.22	19.38	66.00	4.88
6	1	Wheat	05/27/2023	31.60	5.46	42.80	63.90	9.49
6	2	Corn	11/08/2023	30.60	4.84	22.80	67.90	4.88
7	1	Corn	08/04/2023	24.20	4.66	25.40	54.20	5.58
8	1	Wheat	05/27/2023	28.20	6.18	43.80	59.60	9.61
8	2	Corn	10/17/2023	25.20	5.26	21.00	70.30	5.65
9	1	Wheat	05/27/2023	32.00	7.38	49.20	61.40	11.00
9	2	Corn	10/17/2023	27.80	5.18	24.80	68.20	6.89
CM1	1	Corn	08/04/2023	27.60	4.80	23.40	51.30	5.28
CM2	1	Walnuts	09/19/2023	49.60	4.92	60.20	19.90	17.80
CM3	1	Wheat	05/24/2023	29.80	7.48	44.00	65.30	9.39

Westwood Farms LLC 2023 Lab Results Summary (Attachment E)

Plant Tissue

(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
CM3	2	Corn	10/05/2023	14.82	6.50	21.80	65.70	5.54
CM4	1	Wheat	05/24/2023	30.20	7.02	37.60	62.50	9.94
CM4	2	Corn	10/05/2023	15.42	6.14	22.40	63.90	5.02
CM5	1	Wheat	05/24/2023	29.80	7.42	42.40	64.20	10.70
CM5	2	Corn	10/25/2023	24.60	5.08	25.80	72.50	5.97
CM6	1	Wheat	05/29/2023	25.40	5.76	20.00	59.80	10.50
CM6	2	Corn	10/25/2023	21.20	4.96	21.60	70.80	6.57

Well / Irrigation Water

(mg/l/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	General Minerals				
								CA	MG	NA	HCO3	CO3
Dairy												
Dairy #1	06/26/2023	35.30		669								
Dairy #2								Out of service.				
Averages:		35.30		669								



Westwood Farms LLC 2023 Lab Results Summary (Attachment E)

Well / Irrigation Water

(mg/l/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	General Minerals					
								CA	MG	NA	HCO3	CO3	SO4
Domestic													
Hillmans Domestic	12/14/2023	44.70			1,090								
Smith House	06/26/2023	42.70			943								
Averages:		43.70			1,016								
Irrigation													
1								Out of service					
2								Did not run					
3								Out of service					
6								Out of service					
7								Out of service					
8								Did not run					
11	11/14/2023	36.60		785		560.00	36.60						
12								Did not run					
CM2								Out of service					
CM3								Out of service.					
CM4								Did not run					
CM6								Did not run					
Averages:		36.60		785		560.00	36.60						



Westwood Farms LLC 2023 Lab Results Summary (Attachment E)

Well / Irrigation Water

(mg/l/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	General Minerals						
								CA	MG	NA	HCO3	CO3	SO4	CL
Surface Water														
Tulare (General)	06/28/2023	0.00		42		30.00	0.00							
Averages:		0.00		42		30.00	0.00							

* NH4N was non-detectable unless a value is shown

Westwood Farms LLC 2023

Planting and Harvest Information (Attachment F)

Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: 1							
	1 Wheat	15	12/22/2022	05/26/2023	19.7	298.5	19.9
	2 Corn	15	07/18/2023	10/17/2023	28.7	438.0	29.2
Field: 2							
	1 Wheat	35	12/23/2022	05/27/2023	21.1	726.2	20.8
	2 Corn	35	07/26/2023	10/25/2023	30.6	1085.0	31.0
Field: 3							
	1 Wheat	70	12/21/2022	05/25/2023	20.4	1463.0	20.9
	2 Corn	70	07/11/2023	10/10/2023	29.5	2142.0	30.6
Field: 4							
	1 Wheat	56	12/22/2022	05/26/2023	18.3	1052.8	18.8
	2 Corn	56	08/09/2023	11/08/2023	27.5	1579.2	28.2
Field: 5							
	1 Wheat	37	12/23/2022	05/27/2023	22.3	814.0	22.0
	2 Corn	37	07/26/2023	10/25/2023	29.0	1091.5	29.5
Field: 6							
	1 Wheat	42	12/23/2022	05/27/2023	21.2	882.0	21.0
	2 Corn	42	08/09/2023	11/08/2023	28.4	1232.7	29.4
Field: 7							
	1 Corn	31	05/05/2023	08/04/2023	27.6	886.6	28.6
Field: 8							
	1 Wheat	39	12/23/2022	05/27/2023	19.6	780.0	20.0
	2 Corn	39	07/18/2023	10/17/2023	28.6	1162.2	29.8
Field: 9							
	1 Wheat	8	12/23/2022	05/27/2023	18.6	155.2	19.4
	2 Corn	8	07/18/2023	10/17/2023	28.0	229.6	28.7

Westwood Farms LLC 2023
Planting and Harvest Information (Attachment F)

Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: CM1							
	1 Corn	49	04/25/2023	08/04/2023	27.6	1332.8	27.2
Field: CM2							
	1 Walnuts	43	06/01/2017	09/19/2023	3.5	154.8	3.6
Field: CM3							
	1 Wheat	23	12/20/2022	05/24/2023	18.6	439.3	19.1
	2 Corn	23	07/06/2023	10/05/2023	29.4	692.3	30.1
Field: CM4							
	1 Wheat	37	12/20/2022	05/24/2023	18.5	701.2	19.0
	2 Corn	37	07/06/2023	10/05/2023	29.0	1121.1	30.3
Field: CM5							
	1 Wheat	36	12/20/2022	05/24/2023	18.0	669.6	18.6
	2 Corn	36	07/26/2023	10/25/2023	30.0	1087.2	30.2
Field: CM6							
	1 Wheat	55	12/25/2022	05/29/2023	18.0	1028.5	18.7
	2 Corn	55	07/26/2023	10/25/2023	30.0	1644.5	29.9

Westwood Farms LLC 2023

Weather Data (Attachment G)

Day	January	February	March	April	May	June	July	August	September	October	November	December
1	Light	None	Light	None	None	None	None	None	None	None	None	None
2	Light	None	None	None	None	None	None	None	None	None	None	None
3	None	None	None	None	None	None	None	None	None	None	None	None
4	Light	None	None	None	Light	None	None	None	None	None	None	None
5	Heavy	Light	Light	None	None	None	None	None	None	None	None	None
6	None	None	None	None	None	None	None	None	None	None	None	None
7	None	None	None	None	None	SWP	None	None	None	None	None	None
8	None	None	None	None	None	None	None	None	None	None	None	None
9	SWP	None	Light	None	None	None	None	None	None	None	None	None
10	Light	None	SWP	None	None	None	None	None	None	None	None	None
11	None	None	None	None	None	None	None	None	None	None	None	None
12	None	None	None	None	None	None	None	None	None	None	None	None
13	None	None	None	None	None	None	None	None	None	None	None	None
14	Heavy	None	SWP	None	None	None	None	None	None	None	None	None
15	Light	None	Heavy	None	None	None	None	None	None	None	None	None
16	Heavy	None	None	None	None	None	None	None	None	None	None	None
17	None	None	None	None	None	None	None	None	None	None	None	None
18	None	None	None	None	None	None	None	None	None	None	None	None
19	None	None	Light	None	None	None	None	Light	None	None	None	None
20	None	None	None	None	None	None	None	SWP	None	None	None	None
21	None	None	SWP	None	None	None	None	None	None	None	None	None
22	None	Light	Light	None	None	None	None	None	None	None	None	None
23	None	None	None	None	None	None	None	None	None	Heavy	None	None
24	None	SWP	None	None	None	None	None	None	None	None	None	None
25	None	SWP	None	None	None	None	None	None	None	None	None	None
26	None	None	None	None	None	None	None	None	None	None	None	None
27	None	Light	None	None	None	None	None	None	None	None	None	None
28	None	Heavy	Light	None	None	None	None	None	None	None	None	None
29	Light		Heavy	None	None	None	None	None	None	None	None	None
30	None		Light	None	None	None	None	None	None	None	None	Light
31	None		None		None		None	None	None	None		None

*Note: SWP = Standing Water Present





July 7, 2023

Lab No. : VI 2344247
Customer No. : 4018573
Reference : 40715

Innovative Ag Services, LLC
 1201 Delta View Road Suite 5
 Hanford, CA 93230

Laboratory Report

Introduction: This report package contains a total of 4 pages divided into 3 sections:

- | | | |
|-----------------|-----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (2 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
Dairy #1	06/26/2023	06/26/2023	VI 2344247-001	DW
Smith House	06/26/2023	06/26/2023	VI 2344247-002	DW

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 4500-H+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: EHB

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-07-10



July 7, 2023

Innovative Ag Services, LLC
 1201 Delta View Road Suite 5
 Hanford, CA 93230

Description : Dairy #1
 Project : 0166 Westwood Farms LLC

Lab No. : VI 2344247-001
 Customer No.: 4018573
 Reference : 40715
 Sampled On : June 26, 2023 at 13:00
 Sampled By : Henry
 Received On : June 26, 2023 at 15:40
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrate Nitrogen	35.3	0.4	mg/L	10	1		06/27/2023	13:00	lfs	SM 4500-NO3 F	06/27/2023	15:18	lfs
Conductivity	669	1	umhos/cm	1600 ²	1		06/27/2023	21:22	amm	SM 4500-H+B	06/28/2023	06:11	amm

DQF Flags Definition:

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

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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
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July 7, 2023

Innovative Ag Services, LLC
 1201 Delta View Road Suite 5
 Hanford, CA 93230

Description : Smith House
 Project : 0166 Westwood Farms LLC

Lab No. : VI 2344247-002
 Customer No.: 4018573
 Reference : 40715
 Sampled On : June 26, 2023 at 13:10
 Sampled By : Henry
 Received On : June 26, 2023 at 15:40
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrate Nitrogen	42.7	0.4	mg/L	10	1		06/27/2023	13:00	lfs	SM 4500-NO3 F	06/27/2023	15:21	lfs
Conductivity	943	1	umhos/cm	1600 ²	1		06/27/2023	21:22	amm	SM 4500-H+B	06/28/2023	06:14	amm

DQF Flags Definition:

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

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.



July 7, 2023

Innovative Ag Services, LLC

Lab No. : VI 2344247
 Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2343954-001)	Dup	umhos/cm		0.4%	5	
Nitrate Nitrogen	4500NO3F	06/27/2023:207091LFS (STK2338308-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 0.0%	100% 99.4% 99.4% 0.0%	ND 80-120 66-125 66-125 ≤30.4	<0.4

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 analyte. 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.



2344247
Laboratory Analysis Work Order

Nº 40715

ID: #0166

SITE NAME: Westwood FarmsBilling: IASR01
a.1°LABORATORY: FGL

Authorized Copy Release to:

Innovative Ag Services LLC

(559) 587-2800

ANALYSIS TO BE COMPLETED:**Irrigation/Ground Water (ELAP Standards)**

- W1 EC, NO₃N (Dom)
- W2 EC, NO₃N, TDS, TN (Irr)
- W3 NH₄-N (Ammonium)
- W4 EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
- W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
- W6 NO₃N, NO₂ (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
- W8 Other: _____

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
- P2 TN, P, K (Mid-season - Corn)
- P3 TN, TP, TK, Ash, %M (At Harvest)
- P4 TN, %M
- P5 % Moisture
- P6 NIR
- P7 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY FIELD TESTS		
					NH ₃ N*	pH	Temp
1	Dairy # 1	Dom	W1 1:00 6/26	Henry	—		
2	Smith House	1	1:10 6/26	1	—		
3							
4							
5							
6							
7							
8							

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st		IAS		2:00 6/26/23
2 nd	AJB	FGL	6/26/23 1540	
3 rd	AJB	FGL		6/26/23 1558
4 th	SRO	FGL	6/26/23 1558	
	SRG	FGL	6/26/23 1730	
		GLS	6/26/23 1730	
LABORATORY USE ONLY		Total Samples:		Laboratory #:
Logged In By:				

GLS mc 6/27/23 1214



November 28, 2023

Lab No. : VI 2347723**Customer No.** : 4018573**Reference** : 42046

Innovative Ag Services, LLC
 1201 Delta View Road
 Suite 5
 Hanford, CA 93230

Laboratory Report

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

- | | | |
|-----------------|----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (1 page) | : 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
11	11/14/2023	11/14/2023	VI 2347723-001	AGW

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was 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

EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+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: 2023-11-28

Section: Case Narrative

Page 1 of 3

Page 1 of 3

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



November 28, 2023

Innovative Ag Services, LLC
 1201 Delta View Road
 Suite 5
 Hanford, CA 93230

Description : 11
 Project : 0166 Westwood Farms

Lab No. : VI 2347723-001
 Customer No.: 4018573
 Reference : 42046
 Sampled On : November 14, 2023 at 13:25
 Sampled By : Zeke
 Received On : November 14, 2023 at 16:05
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U1	11/21/2023	14:22	sta	EPA 351.2	11/25/2023	13:52	lcr
Nitrate Nitrogen	36.6	0.4	mg/L		1		11/15/2023	16:15	lfs	SM 4500-NO3 F	11/15/2023	15:29	lfs
Nitrogen, Total as Nitrogen	36.6	0.5	mg/L		1	1	11/21/2023	14:22	sta	Calc.	11/25/2023	13:52	lcr
Nitrate + Nitrite as N	36.6	0.4	mg/L		1		11/15/2023	16:15	lfs	SM 4500-NO3 F	11/15/2023	15:29	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U1	11/21/2023	14:22	sta	EPA 351.2	11/25/2023	13:52	lcr
Conductivity	785	1	umhos/cm		1		11/17/2023	12:02	krh	SM 4500-H+B	11/17/2023	13:20	krh
Solids, Total Dissolved (TDS)	560	20	mg/L		1		11/16/2023	10:20	ctl	SM 2540 C	11/17/2023	11:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

1 The MS/MSD did not meet QC criteria.

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

Corporate Offices & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory	Office & 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	2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810



November 28, 2023

Innovative Ag Services, LLC

Lab No. : VI 2347723

Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2347762-003)	Dup	umhos/cm		0.4%	5	
Solids, Total Dissolved	2540CE	11/16/2023:213071CTL (SP 2319182-001) (SP 2319182-001)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	991.5	ND 102% 1.50% 0.4%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	11/21/2023:213242STA (VI 2347758-001) (VI 2347724-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 0.9% 12.00 12.00 0.4%	ND 82.1% 82.9% 82.1% 80.2% 79.8% ≤20	<0.5 73-124 90-110 435 90-110 435 90-110 435 90-110 435 ≤20	
Nitrate + Nitrite as N	4500NO3F	11/15/2023:213023LFS (STK2355877-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609	ND 98.1% 91.4% 92.6% 0.5%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	11/15/2023:213023LFS (STK2355877-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609	ND 98.1% 91.4% 92.6% 0.5%	<0.4 80-120 66-125 66-125 ≤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 analyte. 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.

Explanation

- 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.



Laboratory Analysis Work Order

Nº 42046

ID: # 0166SITE NAME: WESTWOOD FARMSBilling: IAS
ANALYSIS TO BE COMPLETED:
Irrigation/Ground Water (ELAP Standards)
W1 EC, NO₃N (Dom) W2 EC, NO₃N, TDS, TN (Irr)W3 NH₄-N (Ammonium)W4 EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)W6 NO₃N, NO₂ (Dom ILRP, Annually)W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)

W8 Other: _____

Plant Tissue
P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)

P2 TN, P, K (Mid-season - Corn)

P3 TN, TP, TK, Ash, %M (At Harvest)

P4 TN, %M

P5 % Moisture

P6 NIR

P7 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1	11	IRR	W2 11-14/1:25	Zoke			
2							
3							
4							
5							
6							
7							
8							

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES: 1201 19.8°CID#111401
CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st		IAS		11-14-23 / 3:30
2 nd		FGL	11-14-23 15:50	
3 rd		FGL		11-14-23 16:05
4 th		FGL	11-14-23 16:05	
LABORATORY USE ONLY		EGL	11-14-23 17:30	11-14-23 17:30
Logged In By: _____		GLS	11-14-23	
Total Samples: _____			Laboratory #: <u>GJF</u> 111605	



January 2, 2024

Lab No. : VI 2348567
Customer No. : 4018573
Reference : 42183

Innovative Ag Services, LLC
 1201 Delta View Road
 Suite 5
 Hanford, CA 93230

Laboratory Report

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

- | | | |
|-----------------|----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (1 page) | : 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
Hillman Dom	12/14/2023	12/14/2023	VI 2348567-001	DW

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was 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 4500-H+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: 2024-01-03



January 2, 2024

Innovative Ag Services, LLC
 1201 Delta View Road
 Suite 5
 Hanford, CA 93230

Description : Hillman Dom
 Project : 0166 Westwood Farms, LLC

Lab No. : VI 2348567-001
 Customer No.: 4018573
 Reference : 42183
 Sampled On : December 14, 2023 at 11:30
 Sampled By : Zeke
 Received On : December 14, 2023 at 15:50
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrate Nitrogen	44.7	0.8*	mg/L	10	2		12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	18:11	lfs
Conductivity	1090	1	umhos/cm	1600 ²	1		12/22/2023	09:20	krh	SM 4500-H+B	12/22/2023	13:11	krh

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level * RL adjusted for dilution, Dil.=Dilution

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.



January 2, 2024
Innovative Ag Services, LLC

Lab No. : VI 2348567
 Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2348744-001)	Dup	umhos/cm		0.2%	5	
Nitrate Nitrogen	4500NO3F	12/15/2023:214153LFS (STK2357151-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 98.4% 1.6%	ND 97.7% 96.4% 66-125 ≤30.4	<0.4 80-120 66-125 66-125	

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 analyte. 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.



Laboratory Analysis Work Order

Nº 42183

ID: # 01612348567SITE NAME: Westwood FarmsBilling: IAS
ANALYSIS TO BE COMPLETED:
Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom)
W2 EC, NO₃N, TDS, TN (Irr)
W3 NH₄-N (Ammonium)
W4 EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
W6 NO₃N, NO₂ (Dom ILRP, Annually)
W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
W8 Other: _____
- 20° C / 17° F
1/14/23*

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
P2 TN, P, K (Mid-season - Corn)
P3 TN, TP, TK, Ash, %M (At Harvest)
P4 TN, %M
P5 % Moisture
P6 NIR
P7 Other: _____

LABORATORY: FGL

Authorized Copy Release to:

Innovative Ag Services LLC
(559) 587-2800
Process Waste Water (lagoon)

- L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
L3 L1 + Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)
L4 Other: _____

Manure

- M1 TN, TP, TK, %M (2/year)
M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
M3 Other: _____

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
S2 S1 + CEC, CaCO₃, OM, C:N, TN
S3 NO₃N, NH₄N
S4 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1	Hillside Dwn.	Dom	W1 12-14-23 / 11:30	Zeke			
2							
3							
4							
5							
6							
7							
8							

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u>S</u>	<u>IAS</u>		<u>12-14-23 / 11:15</u>
2 nd	<u>ZJ</u>	<u>FGL</u>	<u>12-14-23 15:58</u>	
3 rd	<u>ZJ</u>	<u>FGL</u>	<u>12-14-23</u>	<u>16:08</u>
4 th	<u>DA</u>		<u>12-14-23</u>	<u>16:08</u>

LABORATORY USE ONLY

Logged In By: EDTotal Samples: 12/14/23Laboratory #: ED 12/14/23