2023 ANNUAL REPORT

Prepared for

Diamond D Dairy

9423 Idaho Ave
Hanford CA 93230

Kings County

January 01 through December 31, 2023

Prepared by:

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2023 ANNUAL REPORT

Diamond D 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: Ronnie Donell

Title: Owner

Date: 7-11-24

Dairy Operator

☐ Owner is also the Operator

Signature: _____

Print: _____

Title: _____

Date: _____

Facility Configuration Changes or Information about this Report

Field 52 was planted to Tomatoes. This field did not receive manure or lagoon water for this crop.

PROVOST & PRITCHARD ENGINEERING GROUP
An Employee Owned Company

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 ____three___ current wastewater agreements for this facility.

☐ There is _____ new agreement this reporting period and is 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: Diamond D Dairy
Dairy Address: 9423 Idaho Ave
Hanford, CA 93230
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	268	3,201	268	3,201	1,400	82.0	Holstein
Dry Cows	520	0	520	0	1,600		Holstein
Bred Heifers 15-24 Months	862	0	862	0	1,160		Holstein
Heifers 7-14 Months	690	0	690	0	685		Holstein
Calves 4-6 Months	259	0	259	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: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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	66,112	3,363	572	750
Dry Cows	5,720	260	34	172
Bred Heifers 15-24 Months	8,275	328	47	
Heifers 7-14 Months	4,106	142	23	
Calves 4-6 Months	809	34	5	
Calves 0-3 Months	0	0	0	
Other type of commercial animals				
Total Pounds for report period:		1,506,075	248,668	336,503
Total tons for report period:	15,516			

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: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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
8,342	38,872	219	1,366	400,946

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: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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
8,342	38,872	219	1,366	400,946

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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: Diamond D Dairy
Dairy Address: 9423 Idaho Ave
Hanford, CA 93230
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: 620.98

APN	County	Acres	Land Use	APN Not Part of Land Application Area
016-270-012	Kings	157.56	Cropland	
016-270-013	Kings	45.58	Cropland	
028-040-002	Kings	2.00	Residential	
028-040-003	Kings	77.90	Dairy Site/Cropland	
028-040-004	Kings	80.00	Dairy Site/Cropland	
028-040-006	Kings	40.00	Cropland	
028-040-010	Kings	80.00	Cropland	
028-040-023	Kings	58.06	Cropland	
028-040-031	Kings	78.73	Cropland	
028-040-032	Kings	1.15	Residential	

Total Land Application Areas For Manure And Wastewater

Total Land Application Area Acres: 447.5

Total Acres With Manure Applied For This Report: 334.0

Total Acres Without Manure Applied For This Report: 113.5

Field ID	Acres	APN	Type of Waste Applied For This Report	Field Not Part of Land Application Area
27A	3.5	028-040-003	None	

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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
		028-040-004		
27B	2.0	028-040-004	None	
28	74.0	028-040-031	Liquid	
29	76.0	028-040-010	Liquid	
30	58.0	028-040-023	Liquid	
51	76.0	016-270-012	Liquid	
52	77.0	016-270-012	None	
53A	31.0	028-040-006	None	
53B	6.0	028-040-006	Liquid	
54	44.0	016-270-013	Liquid	

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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	**28**	**28**
Crop	**Triticale**	**Corn Silage**
Expected Yield (tons/ac)	25	25
Acres	74	74
Start Date	11/03/2022	6/02/2023
Applications		
Commercial	46	41
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied		128
PAN Applied	38	113
Irrigation Source	0	1
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	238	327
Balance Ratio		
By Crop		
Total	0.22	0.54
PAN	0.38	0.49
By Field		
Total	0.41	0.41
PAN	0.45	0.45
By Farm		
Total	0.41	0.41
PAN	0.41	0.41

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: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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	**29**	**29**
Crop	**Triticale**	**Corn Silage**
Expected Yield (tons/ac)	25	25
Acres	76	76
Start Date	11/13/2022	6/30/2023
Applications		
Commercial	46	
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied		50
PAN Applied	45	86
Irrigation Source	0	1
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	245	320
Balance Ratio		
By Crop		
Total	0.22	0.18
PAN	0.40	0.29
By Field		
Total	0.20	0.20
PAN	0.34	0.34
By Farm		
Total	0.41	0.41
PAN	0.41	0.41

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: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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	**30**	**30**
Crop	**Triticale**	**Corn Silage**
Expected Yield (tons/ac)	25	25
Acres	58	58
Start Date	11/20/2022	5/23/2023
Applications		
Commercial	46	120
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied	98	98
PAN Applied	57	87
Irrigation Source	0	1
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	241	175
Balance Ratio		
By Crop		
Total	0.63	1.29
PAN	0.46	1.23
By Field		
Total	0.91	0.91
PAN	0.78	0.78
By Farm		
Total	0.41	0.41
PAN	0.41	0.41

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: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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	**51**	**51**
Crop	**Triticale**	**Corn Silage**
Expected Yield (tons/ac)	20	25
Acres	76	76
Start Date	11/14/2022	6/15/2023
Applications		
Commercial	46	40
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied		102
PAN Applied	12	70
Irrigation Source	0	2
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	190	436
Balance Ratio		
By Crop		
Total	0.28	0.35
PAN	0.34	0.27
By Field		
Total	0.33	0.33
PAN	0.29	0.29
By Farm		
Total	0.41	0.41
PAN	0.41	0.41

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: Diamond D Dairy

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Hanford, CA 93230

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	**52**
Crop	**Tomatoes**
Expected Yield (tons/ac)	10
Acres	77
Start Date	12/22/2022
Applications	
Commercial	
Solid Manure	
Total Applied	
PAN Applied	
Lagoon Water	
Total Applied	
PAN Applied	5
Irrigation Source	0
Atmospheric	
Removal	
Planned Harvest	
Actual Harvest	
Balance Ratio	
By Crop	
Total	0.00
PAN	4.82
By Field	
Total	0.00
PAN	4.82
By Farm	
Total	0.41
PAN	0.41

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: Diamond D Dairy

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Hanford, CA 93230

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	**53A**	**53A**
Crop	**Triticale**	**Corn Silage**
Expected Yield (tons/ac)	15	25
Acres	31	31
Start Date	11/02/2022	6/06/2023
Applications		
Commercial	46	40
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied		
PAN Applied	23	25
Irrigation Source	0	2
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	264	188
Balance Ratio		
By Crop		
Total	0.20	0.26
PAN	0.29	0.39
By Field		
Total	0.23	0.23
PAN	0.33	0.33
By Farm		
Total	0.41	0.41
PAN	0.41	0.41

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: Diamond D Dairy

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Hanford, CA 93230

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	**53B**	**53B**
Crop	**Barley**	**Corn Silage**
Expected Yield (tons/ac)	15	25
Acres	6	6
Start Date	11/19/2022	5/24/2023
Applications		
Commercial	46	120
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied		128
PAN Applied	8	83
Irrigation Source	0	2
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	192	330
Balance Ratio		
By Crop		
Total	0.28	0.78
PAN	0.32	0.64
By Field		
Total	0.59	0.59
PAN	0.52	0.52
By Farm		
Total	0.41	0.41
PAN	0.41	0.41

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: Diamond D Dairy

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Hanford, CA 93230

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	**54**	**54**
Crop	**Triticale**	**Corn Silage**
Expected Yield (tons/ac)	20	25
Acres	44	44
Start Date	11/15/2022	6/16/2023
Applications		
Commercial	46	40
Solid Manure		
Total Applied		
PAN Applied		
Lagoon Water		
Total Applied		129
PAN Applied	4	83
Irrigation Source	0	2
Atmospheric	7	7
Removal		
Planned Harvest		
Actual Harvest	500	216
Balance Ratio		
By Crop		
Total	0.11	0.83
PAN	0.12	0.61
By Field		
Total	0.32	0.32
PAN	0.26	0.26
By Farm		
Total	0.41	0.41
PAN	0.41	0.41

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: Diamond D Dairy

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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	
28	Triticale	74.00	11/03/2022		05/11/2023	25	26.20	1,939
28	Corn Silage	74.00	06/02/2023		09/11/2023	25	22.16	1,640
29	Triticale	76.00	11/13/2022		05/22/2023	25	15.61	1,186
29	Corn Silage	76.00	06/30/2023		10/17/2023	25	21.78	1,655
30	Triticale	58.00	11/20/2022		05/03/2023	25	21.83	1,266
30	Corn Silage	58.00	05/23/2023		08/30/2023	25	22.31	1,294
51	Triticale	76.00	11/14/2022		05/21/2023	20	17.12	1,301
51	Corn Silage	76.00	06/15/2023		09/16/2023	25	20.95	1,592
52	Tomatoes	77.00	12/22/2022			10		
53A	Triticale	31.00	11/02/2022		05/03/2023	15	12.90	400
53A	Corn Silage	31.00	06/06/2023		08/30/2023	25	19.06	591
53B	Barley	6.00	11/19/2022		05/03/2023	15	16.67	100
53B	Corn Silage	6.00	05/24/2023		09/11/2023	25	33.33	200
54	Triticale	44.00	11/15/2022		05/22/2023	20	24.84	1,093
54	Corn Silage	44.00	06/16/2023		09/16/2023	25	22.25	979

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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
28	Triticale	5/11/2023	1,939	666		65.67	1.32	0.40	2.40	17,573	5,325	31,952
					24-23-P-1	65.67	1.32	0.40	2.40			
28	Corn Silage	9/11/2023	1,640	649		60.43	1.86	0.34	1.92	24,141	4,413	24,920
					24-23-P-8	60.43	1.86	0.34	1.92			
29	Triticale	5/22/2023	1,186	521		56.10	1.80	0.34	2.24	18,744	3,540	23,325
					24-23-P-2	56.10	1.80	0.34	2.24			
29	Corn Silage	10/17/2023	1,655	655		60.43	1.86	0.34	1.92	24,362	4,453	25,148
					24-23-P-15	60.43	1.86	0.34	1.92			
30	Triticale	5/03/2023	1,266	332		73.76	2.11	0.52	3.85	14,019	3,455	25,579
					24-23-P-3	73.76	2.11	0.52	3.85			
30	Corn Silage	8/30/2023	1,294	495		61.74	1.03	0.26	1.95	10,199	2,574	19,308
					24-23-P-10	61.74	1.03	0.26	1.95			
51	Triticale	5/21/2023	1,301	341		73.76	2.11	0.52	3.85	14,406	3,550	26,286
					24-23-P-4	73.76	2.11	0.52	3.85			
51	Corn Silage	9/16/2023	1,592	714		55.16	2.32	0.32	2.17	33,123	4,569	30,981
					24-23-P-11	55.16	2.32	0.32	2.17			
53A	Triticale	5/03/2023	400	119		70.14	3.38	0.40	3.13	8,074	956	7,477
					24-23-P-5	70.14	3.38	0.40	3.13			
53A	Corn Silage	8/30/2023	591	209		64.67	1.40	0.32	2.04	5,846	1,336	8,519
					24-23-P-12	64.67	1.40	0.32	2.04			
53B	Barley	5/03/2023	100	32		68.30	1.81	0.49	3.76	1,148	311	2,384
					24-23-P-6	68.30	1.81	0.49	3.76			
53B	Corn Silage	9/11/2023	200	71		64.67	1.40	0.32	2.04	1,978	452	2,883
					24-23-P-13	64.67	1.40	0.32	2.04			
54	Triticale	5/22/2023	1,093	326		70.14	3.38	0.40	3.13	22,063	2,611	20,431
					24-23-P-7	70.14	3.38	0.40	3.13			
54	Corn Silage	9/16/2023	979	384		60.79	1.24	0.34	1.70	9,520	2,610	13,051
					24-23-P-14	60.79	1.24	0.34	1.70			

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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: 28

Crop: Triticale

Total Nutrients Applied To This Crop:

Nitrogen	3,419	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
1/20/2023	3,404		

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		
			NO_3-N	**TKN**	**P**	**K**	**N**	**P**	**K**
Total =									

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 28

Crop: Triticale

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
4/16/2023	7,500							15.0
	7,500	24-23-I-1	CP-65	Surface	0.20			15.0
Total =	**7,500**							**15.0**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 28

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	12,639	**lbs**
Phosphorus	53	**lbs**
Potassium	332	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
7/18/2023	3,034		

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		
			No_3-N	**TKN**	**P**	**K**	**N**	**P**	**K**
07/26/2023	800		**0.00**	**569**	**3.2**	**20.0**	3,778	21	133
		24-23-L-12	0.00	569	3.2	20.0			
07/08/2023	800		**0.00**	**569**	**3.2**	**20.0**	3,778	21	133
		24-23-L-12	0.00	569	3.2	20.0			
06/10/2023	400		**0.00**	**569**	**3.2**	**20.0**	1,889	11	66
		24-23-L-12	0.00	569	3.2	20.0			
Total =	**2,000**						**9,445**	**53**	**332**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 28

Crop: Corn Silage

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
6/10/2023	12,000							24.0
	12,000	24-23-I-1	CP-65	Surface	0.20			24.0
6/23/2023	20,000							20.0
	10,000	24-23-I-1	CP-65	Surface	0.20			10.0
	10,000	24-23-I-2	TO-53A	Surface				10.0
7/08/2023	20,000							20.0
	10,000	24-23-I-1	CP-65	Surface	0.20			10.0
	10,000	24-23-I-2	TO-53A	Surface				10.0
7/18/2023	20,000							20.0
	10,000	24-23-I-1	CP-65	Surface	0.20			10.0
	10,000	24-23-I-2	TO-53A	Surface				10.0
7/26/2023	20,000							20.0
	10,000	24-23-I-1	CP-65	Surface	0.20			10.0
	10,000	24-23-I-2	TO-53A	Surface				10.0
8/05/2023	20,000							20.0
	10,000	24-23-I-1	CP-65	Surface	0.20			10.0
	10,000	24-23-I-2	TO-53A	Surface				10.0
8/14/2023	20,000							20.0
	10,000	24-23-I-1	CP-65	Surface	0.20			10.0
	10,000	24-23-I-2	TO-53A	Surface				10.0
8/26/2023	16,000							16.0
	8,000	24-23-I-1	CP-65	Surface	0.20			8.0
	8,000	24-23-I-2	TO-53A	Surface				8.0
Total =	**148,000**							**160.0**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 29

Crop: Triticale

Total Nutrients Applied To This Crop:

Nitrogen	3,513	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
12/29/2022	3,496		

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		
			No_3-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
					NO_3-N	**NH_4-N**	**TKN**	
4/19/2023	8,500							17.0
	8,500	24-23-I-1	CP-65	Surface	0.20			17.0
Total =	**8,500**							**17.0**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 29

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	3,883	**lbs**
Phosphorus	21	**lbs**
Potassium	133	**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		
			No_3-N	**TKN**	**P**	**K**	**N**	**P**	**K**
07/22/2023	400		**0.00**	**569**	**3.2**	**20.0**	1,889	11	66
		24-23-L-12	0.00	569	3.2	20.0			
06/15/2023	400		**0.00**	**569**	**3.2**	**20.0**	1,889	11	66
		24-23-L-12	0.00	569	3.2	20.0			
Total =	**800**						**3,778**	**21**	**133**

Irrigation Applications:

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 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	
6/15/2023	12,000							24.0
	12,000	24-23-I-1	CP-65	Surface	0.20			24.0
7/22/2023	12,000							24.0
	12,000	24-23-I-1	CP-65	Surface	0.20			24.0
8/02/2023	9,500							19.0
	9,500	24-23-I-1	CP-65	Surface	0.20			19.0
8/12/2023	9,500							19.0
	9,500	24-23-I-1	CP-65	Surface	0.20			19.0
8/30/2023	9,500							19.0
	9,500	24-23-I-1	CP-65	Surface	0.20			19.0
Total =	**52,500**							**105.0**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 30

Crop: Triticale

Total Nutrients Applied To This Crop:

Nitrogen	8,343	**lbs**
Phosphorus	32	**lbs**
Potassium	199	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
12/29/2022	2,668		

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		
			No_3-N	**TKN**	**P**	**K**	**N**	**P**	**K**
04/21/2023	1,200		**0.00**	**569**	**3.2**	**20.0**	5,667	32	199
		24-23-L-12	0.00	569	3.2	20.0			
Total =	**1,200**						**5,667**	**32**	**199**

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	**NH_4-N**	**TKN**	
4/21/2023	4,000							8.0
	4,000	24-23-I-1	CP-65	Surface	0.20			8.0
Total =	**4,000**							**8.0**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 30

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	12,693	**lbs**
Phosphorus	32	**lbs**
Potassium	199	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
6/16/2023	1,740		
6/21/2023	1,740		
7/01/2023	1,740		
7/25/2023	1,740		

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		
			NO_3-N	TKN	P	K	N	P	K
05/16/2023	600		**0.00**	**569**	**3.2**	**20.0**	2,834	16	100
		24-23-L-12	0.00	569	3.2	20.0			
05/11/2023	600		**0.00**	**569**	**3.2**	**20.0**	2,834	16	100
		24-23-L-12	0.00	569	3.2	20.0			
Total =	**1,200**						**5,667**	**32**	**199**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 30

Crop: Corn Silage

Irrigation Applications:

Date	Total Gal (1,000 Gal)	Sample ID	Source ID	Source Type	Conc. from Sample Analysis (mg/l)			Total Pounds N Applied
					NO_3-N	NH_4-N	TKN	
5/11/2023	4,900							9.8
	4,900	24-23-I-1	CP-65	Surface	0.20			9.8
5/12/2023	7,900							15.8
	7,900	24-23-I-1	CP-65	Surface	0.20			15.8
5/16/2023	5,900							11.8
	5,900	24-23-I-1	CP-65	Surface	0.20			11.8
6/14/2023	7,900							15.8
	7,900	24-23-I-1	CP-65	Surface	0.20			15.8
6/20/2023	6,500							13.0
	6,500	24-23-I-1	CP-65	Surface	0.20			13.0
Total =	**33,100**							**66.2**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 51

Crop: Triticale

Total Nutrients Applied To This Crop:

Nitrogen	3,512	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
12/29/2022	3,496		

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		
			No_3-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
					NO_3-N	**NH_4-N**	**TKN**	
4/19/2023	8,200							16.4
	8,200	24-23-I-1	CP-65	Surface	0.20			16.4
Total =	**8,200**							**16.4**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 51

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	10,884	**lbs**
Phosphorus	43	**lbs**
Potassium	271	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
7/25/2023	3,040		

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		
			No_3-N	**TKN**	**P**	**K**	**N**	**P**	**K**
05/02/2023	1,630		**0.00**	**569**	**3.2**	**20.0**	7,698	43	271
		24-23-L-12	0.00	569	3.2	20.0			
Total =	**1,630**						**7,698**	**43**	**271**

Irrigation Applications:

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 51

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	
5/02/2023	9,500							19.0
	9,500	24-23-I-1	CP-65	Surface	0.20			19.0
7/04/2023	9,500							19.0
	9,500	24-23-I-1	CP-65	Surface	0.20			19.0
7/16/2023	9,500							19.0
	9,500	24-23-I-1	CP-65	Surface	0.20			19.0
7/25/2023	9,500							19.0
	9,500	24-23-I-1	CP-65	Surface	0.20			19.0
8/03/2023	9,500							19.0
	9,500	24-23-I-1	CP-65	Surface	0.20			19.0
8/13/2023	9,000							18.0
	9,000	24-23-I-1	CP-65	Surface	0.20			18.0
8/24/2023	9,000							18.0
	9,000	24-23-I-1	CP-65	Surface	0.20			18.0
9/01/2023	7,500							15.0
	7,500	24-23-I-1	CP-65	Surface	0.20			15.0
Total =	**73,000**							**146.0**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 52

Crop: Tomatoes

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		
			No_3-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
					NO_3-N	NH_4-N	TKN	
Total =								

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 53A

Crop: Triticale

Total Nutrients Applied To This Crop:

Nitrogen	1,433	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
12/29/2022	1,426		

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		
			No_3-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
					NO_3-N	**NH_4-N**	**TKN**	
4/15/2023	3,500							7.0
	3,500	24-23-I-1	CP-65	Surface	0.20			7.0
Total =	**3,500**							**7.0**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 53A

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	1,301	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
7/24/2023	1,240		

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		
			No_3-N	TKN	P	K	N	P	K
Total =									

Irrigation Applications:

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 53A

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	
5/27/2023	4,893							9.8
	4,893	24-23-I-1	CP-65	Surface	0.20			9.8
7/03/2023	4,593							9.2
	4,593	24-23-I-1	CP-65	Surface	0.20			9.2
7/14/2023	4,593							9.2
	4,593	24-23-I-1	CP-65	Surface	0.20			9.2
7/24/2023	4,593							9.2
	4,593	24-23-I-1	CP-65	Surface	0.20			9.2
8/03/2023	4,203							8.4
	4,203	24-23-I-1	CP-65	Surface	0.20			8.4
8/12/2023	4,000							8.0
	4,000	24-23-I-1	CP-65	Surface	0.20			8.0
8/25/2023	3,500							7.0
	3,500	24-23-I-1	CP-65	Surface	0.20			7.0
Total =	**30,375**							**60.8**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 53B

Crop: Barley

Total Nutrients Applied To This Crop:

Nitrogen	277	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
12/29/2022	276		

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		
			No_3-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
					NO_3-N	**NH_4-N**	**TKN**	
4/10/2023	600							1.2
	600	24-23-I-1	CP-65	Surface	0.20			1.2
Total =	**600**							**1.2**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 53B

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	1,495	**lbs**
Phosphorus	4	**lbs**
Potassium	27	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
6/17/2023	180		
6/22/2023	180		
7/01/2023	180		
7/25/2023	180		

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		
			NO_3-N	**TKN**	**P**	**K**	**N**	**P**	**K**
05/11/2023	162		**0.00**	**569**	**3.2**	**20.0**	763	4	27
		24-23-L-12	0.00	569	3.2	20.0			
Total =	**162**						**763**	**4**	**27**

Irrigation Applications:

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 53B

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	
5/11/2023	400							0.8
	400	24-23-I-1	CP-65	Surface	0.20			0.8
6/17/2023	750							2.3
	750	24-22-W-6	D-5	Well	0.40			2.3
6/22/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
6/24/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
6/26/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
6/28/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
6/30/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
7/01/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
7/03/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
7/13/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
7/15/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
7/17/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
7/20/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
7/23/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
7/26/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
7/29/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
8/02/2023	150							0.5

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 53B

Crop: Corn Silage

	150	24-22-W-6	D-5	Well	0.40			0.5
8/05/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
8/07/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
8/10/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
8/13/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
8/16/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
8/19/2023	150							0.5
	150	24-22-W-6	D-5	Well	0.40			0.5
Total =	**4,300**							**12.5**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 54

Crop: Triticale

Total Nutrients Applied To This Crop:

Nitrogen	2,033	**lbs**
Phosphorus	0	**lbs**
Potassium	0	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
12/29/2022	2,024		

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		
			No_3-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
					NO_3-N	**NH_4-N**	**TKN**	
4/21/2023	4,500							9.0
	4,500	24-22-W-5	D-3	Well	0.20			9.0
Total =	**4,500**							**9.0**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 54

Crop: Corn Silage

Total Nutrients Applied To This Crop:

Nitrogen	7,521	**lbs**
Phosphorus	32	**lbs**
Potassium	199	**lbs**

Commercial Fertilizer Applied To This Crop:

	Total Pounds Applied		
Date	**N**	**P**	**K**
7/24/2023	1,760		

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		
			No_3-N	**TKN**	**P**	**K**	**N**	**P**	**K**
08/22/2023	1,200		**0.00**	**569**	**3.2**	**20.0**	5,667	32	199
		24-23-L-12	0.00	569	3.2	20.0			
Total =	**1,200**						**5,667**	**32**	**199**

Irrigation Applications:

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Field: 54

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	
5/03/2023	6,500							13.0
	6,500	24-22-W-5	D-3	Well	0.20			13.0
7/06/2023	6,500							13.0
	6,500	24-22-W-5	D-3	Well	0.20			13.0
7/16/2023	6,500							13.0
	6,500	24-22-W-5	D-3	Well	0.20			13.0
7/24/2023	6,500							13.0
	6,500	24-22-W-5	D-3	Well	0.20			13.0
8/03/2023	6,500							13.0
	6,500	24-22-W-5	D-3	Well	0.20			13.0
8/11/2023	5,500							11.0
	5,500	24-22-W-5	D-3	Well	0.20			11.0
8/22/2023	4,500							9.0
	4,500	24-22-W-5	D-3	Well	0.20			9.0
9/01/2023	4,500							9.0
	4,500	24-22-W-5	D-3	Well	0.20			9.0
Total =	**47,000**							**94.0**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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
28	06/10/2023	Process Wastewater			
28	07/08/2023	Process Wastewater	Nominal	Nominal	Nominal
28	07/26/2023	Process Wastewater	Nominal	Nominal	Nominal
29	06/15/2023	Process Wastewater	Nominal	Nominal	Nominal
29	07/22/2023	Process Wastewater	Nominal	Nominal	Nominal
30	04/21/2023	Process Wastewater	Nominal	Nominal	Nominal
30	05/11/2023	Process Wastewater	Nominal	Nominal	Nominal
30	05/16/2023	Process Wastewater	Nominal	Nominal	Nominal
51	05/02/2023	Process Wastewater	Nominal	Nominal	Nominal
53B	05/11/2023	Process Wastewater	Nominal	Nominal	Nominal
53B	07/01/2023	Process Wastewater	Nominal	Nominal	Nominal
54	08/22/2023	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: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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
7/01/2023	7,400	3,856								
			24-23-M-1	74.730	0.370	0.110	0.180			
			24-23-M-2	4.610	1.810	0.790	3.480			
			24-23-M-3	75.240	0.530	0.120	0.080			
			24-23-M-4	37.010	1.980	0.570	1.850			
				47.898	**1.173**	**0.398**	**1.398**	**90,413**	**30,652**	**107,764**
Grand Total / Average	**7,400**	**3,856**		**47.898**	**1.173**	**0.398**	**1.398**	**90,413**	**30,652**	**107,764**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

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
01/01/2023	Storage 5	No	900	24-23-L-1		2,319.70	3.70	26.60	6,800				
					0.00	**2,319.70**	**3.70**	**26.60**	**6,800**	**17,328**	**28**	**199**	**30,478**
01/15/2023	Storage 5	No	900	24-23-L-1		2,319.70	3.70	26.60	6,800				
					0.00	**2,319.70**	**3.70**	**26.60**	**6,800**	**17,328**	**28**	**199**	**30,478**
01/20/2023	Storage 5	No	900	24-23-L-1		2,319.70	3.70	26.60	6,800				
					0.00	**2,319.70**	**3.70**	**26.60**	**6,800**	**17,328**	**28**	**199**	**30,478**
02/01/2023	Storage 5	No	900	24-23-L-1		2,319.70	3.70	26.60	6,800				
					0.00	**2,319.70**	**3.70**	**26.60**	**6,800**	**17,328**	**28**	**199**	**30,478**
02/15/2023	Storage 5	No	900	24-23-L-1		2,319.70	3.70	26.60	6,800				
					0.00	**2,319.70**	**3.70**	**26.60**	**6,800**	**17,328**	**28**	**199**	**30,478**
02/20/2023	Storage 5	No	900	24-23-L-1		2,319.70	3.70	26.60	6,800				
					0.00	**2,319.70**	**3.70**	**26.60**	**6,800**	**17,328**	**28**	**199**	**30,478**
03/01/2023	Storage 5	No	900	24-23-L-1		2,319.70	3.70	26.60	6,800				
					0.00	**2,319.70**	**3.70**	**26.60**	**6,800**	**17,328**	**28**	**199**	**30,478**

03/15/2023	Storage 5	No	900	24-23-L-1		2,319.70	3.70	26.60	6,800				
					0.00	**2,319.70**	**3.70**	**26.60**	**6,800**	**17,328**	**28**	**199**	**30,478**
03/20/2023	Storage 5	No	900	24-23-L-6		729.00	7.20	27.10	7,643				
					0.00	**729.00**	**7.20**	**27.10**	**7,643**	**5,446**	**54**	**202**	**34,256**
04/01/2023	Storage 5	No	900	24-23-L-6		729.00	7.20	27.10	7,643				
					0.00	**729.00**	**7.20**	**27.10**	**7,643**	**5,446**	**54**	**202**	**34,256**
04/15/2023	Storage 5	No	900	24-23-L-6		729.00	7.20	27.10	7,643				
					0.00	**729.00**	**7.20**	**27.10**	**7,643**	**5,446**	**54**	**202**	**34,256**
04/20/2023	Storage 5	No	900	24-23-L-6		729.00	7.20	27.10	7,643				
					0.00	**729.00**	**7.20**	**27.10**	**7,643**	**5,446**	**54**	**202**	**34,256**
05/01/2023	Storage 5	No	900	24-23-L-6		729.00	7.20	27.10	7,643				
					0.00	**729.00**	**7.20**	**27.10**	**7,643**	**5,446**	**54**	**202**	**34,256**
05/15/2023	Storage 5	No	900	24-23-L-6		729.00	7.20	27.10	7,643				
					0.00	**729.00**	**7.20**	**27.10**	**7,643**	**5,446**	**54**	**202**	**34,256**
05/20/2023	Storage 4	No	900	24-23-L-5		959.00	6.80	26.30	7,575				
				24-23-L-6		729.00	7.20	27.10	7,643				
					0.00	**844.00**	**7.00**	**26.70**	**7,609**	**6,305**	**52**	**199**	**34,104**
06/01/2023	Storage 5	No	900	24-23-L-6		729.00	7.20	27.10	7,643				

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

					0.00	**729.00**	**7.20**	**27.10**	**7,643**	**5,446**	**54**	**202**	**34,256**
06/15/2023	Storage 5	No	900	24-23-L-6		729.00	7.20	27.10	7,643				
					0.00	**729.00**	**7.20**	**27.10**	**7,643**	**5,446**	**54**	**202**	**34,256**
06/20/2023	Storage 5	No	900	24-23-L-9		539.00	2.40	17.20	5,396				
					0.00	**539.00**	**2.40**	**17.20**	**5,396**	**4,026**	**18**	**128**	**24,185**
07/01/2023	Storage 5	No	900	24-23-L-6		729.00	7.20	27.10	7,643				
					0.00	**729.00**	**7.20**	**27.10**	**7,643**	**5,446**	**54**	**202**	**34,256**
07/15/2023	Storage 5	No	900	24-23-L-9		539.00	2.40	17.20	5,396				
					0.00	**539.00**	**2.40**	**17.20**	**5,396**	**4,026**	**18**	**128**	**24,185**
07/20/2023	Storage 5	No	900	24-23-L-9		539.00	2.40	17.20	5,396				
					0.00	**539.00**	**2.40**	**17.20**	**5,396**	**4,026**	**18**	**128**	**24,185**
08/01/2023	Storage 5	No	900	24-23-L-9		539.00	2.40	17.20	5,396				
					0.00	**539.00**	**2.40**	**17.20**	**5,396**	**4,026**	**18**	**128**	**24,185**
08/15/2023	Storage 5	No	900	24-23-L-9		539.00	2.40	17.20	5,396				
					0.00	**539.00**	**2.40**	**17.20**	**5,396**	**4,026**	**18**	**128**	**24,185**
08/20/2023	Storage 5	No	900	24-23-L-9		539.00	2.40	17.20	5,396				
					0.00	**539.00**	**2.40**	**17.20**	**5,396**	**4,026**	**18**	**128**	**24,185**
09/01/2023	Storage 5	No	900	24-23-L-9		539.00	2.40	17.20	5,396				

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

					0.00	**539.00**	**2.40**	**17.20**	**5,396**	**4,026**	**18**	**128**	**24,185**
09/15/2023	Storage 5	No	900	24-23-L-9		539.00	2.40	17.20	5,396				
					0.00	**539.00**	**2.40**	**17.20**	**5,396**	**4,026**	**18**	**128**	**24,185**
09/20/2023	Storage 5	No	900	24-23-L-12		569.00	3.20	20.00	5,871				
					0.00	**569.00**	**3.20**	**20.00**	**5,871**	**4,250**	**24**	**149**	**26,314**
10/01/2023	Storage 5	No	900	24-23-L-12		569.00	3.20	20.00	5,871				
					0.00	**569.00**	**3.20**	**20.00**	**5,871**	**4,250**	**24**	**149**	**26,314**
10/15/2023	Storage 5	No	900	24-23-L-12		569.00	3.20	20.00	5,871				
					0.00	**569.00**	**3.20**	**20.00**	**5,871**	**4,250**	**24**	**149**	**26,314**
10/20/2023	Storage 5	No	900	24-23-L-12		569.00	3.20	20.00	5,871				
					0.00	**569.00**	**3.20**	**20.00**	**5,871**	**4,250**	**24**	**149**	**26,314**
11/01/2023	Storage 5	No	900	24-23-L-12		569.00	3.20	20.00	5,871				
					0.00	**569.00**	**3.20**	**20.00**	**5,871**	**4,250**	**24**	**149**	**26,314**
11/15/2023	Storage 5	No	900	24-23-L-12		569.00	3.20	20.00	5,871				
					0.00	**569.00**	**3.20**	**20.00**	**5,871**	**4,250**	**24**	**149**	**26,314**
11/20/2023	Storage 5	No	900	24-23-L-12		569.00	3.20	20.00	5,871				
					0.00	**569.00**	**3.20**	**20.00**	**5,871**	**4,250**	**24**	**149**	**26,314**
12/01/2023	Storage 5	No	900	24-23-L-12		569.00	3.20	20.00	5,871				

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

					0.00	**569.00**	**3.20**	**20.00**	**5,871**	**4,250**	**24**	**149**	**26,314**
12/15/2023	Storage 4	No	900	24-23-L-11		539.00	1.40	21.80	5,818				
					0.00	**539.00**	**1.40**	**21.80**	**5,818**	**4,026**	**10**	**163**	**26,076**
Grand Totals / Averages			**31,500**			**1,005.82**	**4.29**	**23.04**	**6,510**	**264,181**	**1,103**	**5,997**	**1,016,294**

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Attachment H

Tabulated Analytical Sample Data

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

Manure Samples

Sample Date	Source Location	Sample ID	Moisture %	Total (% Dry Basis)		
				N	P	K
05/08/2023	Screen Separator	24-23-M-1	74.73	0.37	0.11	0.18
			1.52	0.05	0.01	0.02
05/08/2023	Corral	24-23-M-2	4.61	1.81	0.79	3.48
			1.52	0.05	0.01	0.02
10/11/2023	Screen Separator	24-23-M-3	75.24	0.53	0.12	0.08
			1.52	0.05	0.01	0.02
10/11/2023	Corral	24-23-M-4	37.01	1.98	0.57	1.85
			1.52	0.05	0.01	0.02
Average			**47.90**	**1.17**	**0.40**	**1.40**

Manure General Mineral Analysis

Required Once Every Two Years Last Analysis Date: 3/10/2022

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

Notes: Laboratory detection limit listed below each result.

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Wastewater Samples

(NO_3-N required only if lagoon is aerated)

Sample Date	Source Location	Sample ID	Location Aerated?	Total (mg/l)						EC (umhos/cm)
				NO_3 - N	NH_4 - N	TKN	P	K	TDS	
02/02/2023	Storage 3	24-23-L-2	N		308.6	830	5.3	27.7	7,440	7,440
					2.6	76	0.6	4.3	19	10.00
05/08/2023	Storage 3	24-23-L-4	N		429.3	790	4.6	26.3	7,564	7,564
					2.6	76	0.6	4.3	19	10.00
08/10/2023	Storage 3	24-23-L-7	N		337.0	508	3.0	18.7	5,832	5,832
					2.6	76	0.6	4.3	19	10.00
10/11/2023	Storage 3	24-23-L-10	N		269.0	359	2.2	18.7	5,824	5,824
					2.6	76	0.6	4.3	19	10.00
03/08/2023	Storage 4	24-23-L-3	N		334.0	519	3.9	24.1	6,974	6,974
					2.6	76	0.6	4.3	19	10.00
05/08/2023	Storage 4	24-23-L-5	N		416.0	959	6.8	26.3	7,575	7,575
					2.6	76	0.6	4.3	19	10.00
08/10/2023	Storage 4	24-23-L-8	N		353.0	628	2.6	18.3	5,699	5,699
					2.6	76	0.6	4.3	19	10.00
10/11/2023	Storage 4	24-23-L-11	N		252.0	539	1.4	21.8	5,818	5,818
					2.6	76	0.6	4.3	19	10.00
02/02/2023	Storage 5	24-23-L-1	N		337.3	2,320	3.7	26.6	6,800	6,800
05/08/2023	Storage 5	24-23-L-6	N		428.0	729	7.2	27.1	7,643	7,643
08/10/2023	Storage 5	24-23-L-9	N		310.0	539	2.4	17.2	7,643	5,396
10/11/2023	Storage 5	24-23-L-12	N		282.1	569	3.2	20.0	5,871	5,871
Averages					**338.0**	**774**	**3.9**	**22.7**	**6,724**	**6,536**

Notes: Laboratory detection limit listed below each result.

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Wastewater General Minerals Analysis

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

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: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Water Supply Samples

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

Sample Date	Source ID	Source Type	Status	Sample ID	Condition	Last Gen Min Analysis	EC (umhos/cm)	NO_3-N (mg/l)	NH_4-N (mg/l)	TKN (mg/l)	Notes
7/17/2023	CP-65	Surface	Active	24-23-I-1	Wet		29 1.00	< 0.2 0.20		< 1.00 1.00	
7/17/2023	TO-53A	Surface	Active	24-23-I-2	Wet		29 1.00	< 0.20		< 1.00	
10/16/2023	27-D1	Well	Active	24-23-W-6	Wet	10/16/2023	 1.00	 0.20			
10/16/2023	27-D2	Well	Active	24-23-W-5	Wet	10/16/2023	 1.00	 0.20			
10/16/2023	28-D	Well	Active	24-23-W-4	Wet	10/16/2023	 1.00	 0.20			
10/16/2023	51-D	Well	Active	24-23-W-3	Wet	11/13/2018	760 1.00	0.3 0.20	<		
10/16/2023	54-D	Well	Active	24-23-W-2	Wet	10/10/2018	510 1.00	< 0.2 0.20	<		
10/16/2023	Barn Supply 35	Well	Active	24-23-W-1	Wet		420	0.6	<		
	D-3	Well	Active			2/20/2018					
	D-4	Well	Active			3/30/2016					
	D-5	Well	Active			4/18/2022					
	D6	Well	Active			4/07/2021					
	D7	Well	Active			6/26/2020					
	D8	Well	Active			4/22/2019					
	E-32	Well	Active			7/14/2022					

Notes: Laboratory detection limit listed below each result.

Attachment H

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Sample Date	Source ID	Source Type	Status	Sample ID	Condition	Last Gen Min Analysis	EC (umhos/cm)	NO_3-N (mg/l)	NH_4-N (mg/l)	TKN (mg/l)	Notes
	E-33	Well	Active			11/10/2017					
	E-34	Well	Active			3/30/2022					

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

Notes: Laboratory detection limit listed below each result.

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Water Supply General Minerals Analysis

Required Every Five Years (20% Anually Allowed)

Sample Date	Source ID	Source Type	Sample ID	TDS (mg/l)	CO_3 (mg/l)	HCO_3 (mg/l)	Cl (mg/l)	SO_4-S (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)
10/16/2023	27-D1	Well	24-23-W-6	340.00	< 0.00	97.00	57.00	14.00	5.90	0.40	81.00
				5.00	3.00	3.00	1.00	1.00	0.10	0.10	1.00
10/16/2023	27-D2	Well	24-23-W-5	830.00	< 0.00	310.00	100.00	95.00	70.00	8.20	190.00
				5.00	3.00	3.00	1.00	1.00	0.10	0.10	1.00
10/16/2023	28-D	Well	24-23-W-4	1,200.00	< 0.00	130.00	340.00	93.00	140.00	7.90	180.00
				5.00	3.00	3.00	1.00	1.00	0.10	0.10	1.00

Notes: Laboratory detection limit listed below each result.

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

Soil Samples

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

Sample Date	Field ID	Sample Location	Sample ID	Last PO_4-P Analysis	Depth 0 to 1 ft					Depth 1 to 2 ft
					NO_3-N (mg/kg)	PO_4-P (mg/kg)	K (AA) (mg/kg)	EC (dS/m)	%OM	NO_3-N (mg/kg)
	27A									
	27B									
	28									
	29									
	30									
	51									
	52									
	53A									
	53B									
	54									

Notes: Laboratory detection limit listed below each result.

Dairy Name: Diamond D Dairy
Dairy Address: 9423 Idaho Ave
Hanford, CA 93230
Report Period: Jan 01 through Dec 31, 2023

Plant Tissue Samples
Harvest

Sample Date	Field ID	Crop	Sample Location	Sample ID	Volume % Moisture	Total (% Dry Basis)			
						N	P	K	ASH
05/11/2023	28	Wheat Silage		24-23-P-1	65.67 1.52	1.32 0.050	0.40 0.010	2.40 0.020	10.60 0.67
09/18/2023	28	Corn Silage		24-23-P-8	60.43 1.52	1.86 0.050	0.34 0.010	1.92 0.020	6.30 0.67
05/11/2023	29	Wheat Silage		24-23-P-2	56.10 1.52	1.80 0.050	0.34 0.010	2.24 0.020	10.60 0.67
09/18/2023	29	Corn Silage		24-23-P-15	60.43 1.52	1.86 0.050	0.34 0.010	1.92 0.020	6.30 0.67
05/18/2023	30	Barley		24-23-P-3	73.76 1.52	2.11 0.050	0.52 0.010	3.85 0.020	11.40 0.67
09/18/2023	30	Corn Silage		24-23-P-10	61.74 1.52	1.03 0.050	0.26 0.010	1.95 0.020	6.90 0.67
05/18/2023	51	Wheat Silage		24-23-P-4	73.76 1.52	2.11 0.050	0.52 0.010	3.85 0.020	11.40 0.67
09/18/2023	51	Corn Silage		24-23-P-11	55.16 1.52	2.32 0.050	0.32 0.010	2.17 0.020	8.20 0.67
05/18/2023	53A	Triticale		24-23-P-5	70.14 1.52	3.38 0.050	0.40 0.010	3.13 0.020	19.80 0.67
09/18/2023	53A	Corn Silage		24-23-P-12	64.67 1.52	1.40 0.050	0.32 0.010	2.04 0.020	6.30 0.67
05/18/2023	53B	Barley		24-23-P-6	68.30 1.52	1.81 0.050	0.49 0.010	3.76 0.020	10.97 0.67
09/18/2023	53B	Corn Silage		24-23-P-13	64.67 1.52	1.40 0.050	0.32 0.010	2.04 0.020	6.30 0.67
05/18/2023	54	Triticale		24-23-P-7	70.14 1.52	3.38 0.050	0.40 0.010	3.13 0.020	19.80 0.67
09/18/2023	54	Corn Silage		24-23-P-14	60.79 1.52	1.24 0.050	0.34 0.010	1.70 0.020	7.70 0.67

Notes: Laboratory detection limit listed below each result.

Dairy Name: Diamond D Dairy

Dairy Address: 9423 Idaho Ave
Hanford, CA 93230

Report Period: Jan 01 through Dec 31, 2023

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

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

Notes: Laboratory detection limit listed below each result.

Manure/Process Wastewater Tracking Manifest

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

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

Dairy Information:

Diamond D Dairy		
Name of Dairy		
Rance Danell		
Owner/Operator		
9423 Idaho Ave	Hanford	93230
Address	City	Zip
Jimmy Goebel		(559) 584-0964
Contact Person		Phone Number

Solid Manure Hauler Information:

Name of Hauling Company		
Address	City	Zip
Contact Person		Phone Number

Destination Information:

D.L. Danell Living Trust		
Name of Composting Facility / Broker / Farmer / Other (please identify which)		
8265 Hanford-Armona Rd	Hanford	93230
Address	City	Zip
Rance Danell		(559) 582-1251
Contact Person		Phone Number
016-270-011, 028-040-030		
APN's / Location		

Manure/Process Wastewater Tracking Manifest

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

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

Dairy Information:

Diamond D Dairy
Name of Dairy

Rance Danell
Owner/Operator

9423 Idaho Ave	Hanford	93230
Address	City	Zip

Jimmy Goebel	(559) 584-0964
Contact Person	Phone Number

Solid Manure Hauler Information:

Name of Hauling Company

Address	City	Zip

Contact Person	Phone Number

Destination Information:

Dean Grabow Property
Name of Composting Facility / Broker / Farmer / Other (please identify which)

12522 9th Ave	Hanford	93230
Address	City	Zip

Grabow Farming	(559) 584-3454
Contact Person	Phone Number

016-270-010, -033
APN's / Location

Manure/Process Wastewater Tracking Manifest
(Continued)

Solid Manure:

Start Date: _____ End Date: _____

Amount Hauled:

_____ Tons @ _____ % Moisture

OR

_____ Yds^3 @ _____ Density (lb/ft^3)

Method used to determine amount: _____

_____

Process Wastewater:

A signed Third Party Wastewater Agreement is required. Dairy Operator to sign acknowledging this requirement.

Operator: _____ Date: _____

Start Date: 01/01/23 End Date: 12/31/23

Amount Pumped:

7,000,000 Gallons

OR

_____ Acre inches

Method used to determine amount: _____

_____

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Operator: _____ Date: 7-11-24

Hauler: _____ Date: _____

Manure/Process Wastewater Tracking Manifest
(Continued)

Solid Manure:

Start Date: _____ End Date: _____

Amount Hauled:

_____ Tons @ _____ % Moisture

OR

_____ Yds^3 @ _____ Density (lb/ft^3)

Method used to determine amount: _____

_____

Process Wastewater:

A signed Third Party Wastewater Agreement is required. Dairy Operator to sign acknowledging this requirement.

Operator: _____ Date: _____

Start Date: 01/01/23 End Date: 12/31/23

Amount Pumped:

_____ Gallons

OR

_____ Acre inches

Method used to determine amount: _____

_____

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Operator: _____ Date: 7-11-2024

Hauler: _____ Date: _____

Manure/Process Wastewater Tracking Manifest

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

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

Dairy Information:

Diamond D Dairy		
Name of Dairy		
Rance Danell		
Owner/Operator		
9423 Idaho Ave	Hanford	93230
Address	City	Zip
Jimmy Goebel		(559) 584-0964
Contact Person		Phone Number

Solid Manure Hauler Information:

Name of Hauling Company		
Address	City	Zip
Contact Person		Phone Number

Destination Information:

JR Land Company LLC		
Name of Composting Facility / Broker / Farmer / Other (please identify which)		
8265 Hanford Armona Rd	Hanford	93230
Address	City	Zip
Rance Danell		(559) 582-1251
Contact Person		Phone Number
028-090-001, 022		
APN's / Location		

Manure/Process Wastewater Tracking Manifest
(Continued)

Solid Manure:

Start Date: _____ End Date: _____

Amount Hauled:

_____ Tons @ _____ % Moisture

OR

_____ Yds^3 @ _____ Density (lb/ft^3)

Method used to determine amount: _____

_____

Process Wastewater:

A signed Third Party Wastewater Agreement is required. Dairy Operator to sign acknowledging this requirement.

Operator: _____ Date: _____

Start Date: 01/01/23 End Date: 12/31/23

Amount Pumped:

16,000,000 Gallons

OR

_____ Acre inches

Method used to determine amount: _____

_____

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Operator: _____ Date: 7-11-2024

Hauler: _____ Date: _____

Manure/Process Wastewater Tracking Manifest

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

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

Dairy Information:

Diamond D Dairy		
Name of Dairy		
Rance Danell		
Owner/Operator		
9423 Idaho Ave	Hanford	93230
Address	City	Zip
Jimmy Goebel		(559) 584-0964
Contact Person		Phone Number

Solid Manure Hauler Information:

Larry Brown Truck Systems		
Name of Hauling Company		
15970 Houston	Lemoore	93245
Address	City	Zip
Larry Brown		
Contact Person		Phone Number

Destination Information:

OPC Farms		
Name of Composting Facility / Broker / Farmer / Other (please identify which)		
27887 Jackson Ave	Lemoore	93245
Address	City	Zip
Ernie Costamagna		(559) 269-7387
Contact Person		Phone Number
From composting yard to various fields		
APN's / Location		

Manure/Process Wastewater Tracking Manifest
(Continued)

Solid Manure:

Start Date: 01/01/23 End Date: 12/31/23

Amount Hauled:

7,400 Tons @ variable % Moisture

OR

_____ Yds^3 @ _____ Density (lb/ft^3)

Method used to determine amount: Scale

Process Wastewater:

A signed Third Party Wastewater Agreement is required. Dairy Operator to sign acknowledging this requirement.

Operator: _____ Date: _____

Start Date: _____ End Date: _____

Amount Pumped:

_____ Gallons

OR

_____ Acre inches

Method used to determine amount: _____

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Operator:  Date: 7-11-24

Hauler: _____ Date: _____

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AGG2075
7/31/2023
Invoice: AG17570

Rance Danell
Diamond D Dairy
4728 12th Ave
Hanford, CA 93230

RE: Report for AGG2075 RB5 Surface Water

Dear Rance Danell,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 7/17/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, Mary Thao , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Mary Thao, Project Manager

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Diamond D Dairy	**Invoice To:**	Diamond D Dairy
Report To:	Rance Danell	**Invoice Attn:**	Danny Danell
Project #:	RB5-Surface	**Project PO#:**	-
Received:	7/17/2023 - 16:00		
Report Due:	7/31/2023		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 27.8

Custody Seals
Containers Intact
COC/Labels Agree
Received On Blue Ice
Sample(s) arrived at lab on same day sampled.
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Rance Danell	FINAL.RPT	
Danny Danell	FINAL.RPT	
Madison Looper	FINAL.RPT	

Certificate of Analysis

Sample ID: AGG2075-01
Sampled By: Madison Looper
Sample Description: Canal

Sample Date - Time: 07/17/2023 - 08:55
Matrix: Surface Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	**170**	1.0	umhos/cm	1	AGG1087	07/18/23	07/18/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGG1038	07/17/23 23:34	07/17/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1038	07/17/23 23:34	07/17/23	
Total Dissolved Solids	SM 2540C	**120**	5.0	mg/L	1	AGG1131	07/18/23	07/18/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1212	07/19/23	07/20/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

Certificate of Analysis

Sample ID: AGG2075-02
Sampled By: Madison Looper
Sample Description: Lake Side Ditch

Sample Date - Time: 07/17/2023 - 11:05
Matrix: Surface Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	**29**	1.0	umhos/cm	1	AGG1088	07/18/23	07/18/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGG1038	07/17/23 23:49	07/17/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1038	07/17/23 23:49	07/17/23	
Total Dissolved Solids	SM 2540C	**34**	5.0	mg/L	1	AGG1131	07/18/23	07/18/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1212	07/19/23	07/20/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

Certificate of Analysis

Sample ID: AGG2075-03
Sampled By: Madison Looper
Sample Description: Settlers Canal

Sample Date - Time: 07/17/2023 - 11:05
Matrix: Surface Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	**29**	1.0	umhos/cm	1	AGG1088	07/18/23	07/18/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGG1038	07/18/23 00:03	07/18/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1038	07/18/23 00:03	07/18/23	
Total Dissolved Solids	SM 2540C	**37**	5.0	mg/L	1	AGG1131	07/18/23	07/18/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1212	07/19/23	07/20/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: AGG1038										Prepared: 7/17/2023	
Prep Method: Method Specific Preparation										Analyst: DXR	
Blank (AGG1038-BLK1)											
Nitrate as N	ND	0.23	mg/L							07/17/23	
Nitrite as N	ND	0.050	mg/L							07/17/23	
Blank Spike (AGG1038-BS1)											
Nitrate as N	22	0.23	mg/L	23	ND	97	90-110			07/17/23	
Nitrite as N	1.0	0.050	mg/L	1.0	ND	101	90-110			07/17/23	
Matrix Spike (AGG1038-MS1), Source: AGG1995-02											
Nitrate as N	10	0.23	mg/L	11	ND	91	80-120			07/17/23	
Nitrite as N	0.49	0.050	mg/L	0.50	ND	98	80-120			07/17/23	
Matrix Spike (AGG1038-MS2), Source: AGG2016-02											
Nitrate as N	12	0.23	mg/L	11	1.2	94	80-120			07/18/23	
Nitrite as N	0.49	0.050	mg/L	0.50	ND	97	80-120			07/18/23	
Matrix Spike Dup (AGG1038-MSD1), Source: AGG1995-02											
Nitrate as N	10	0.23	mg/L	11	ND	92	80-120	2	20	07/17/23	
Nitrite as N	0.50	0.050	mg/L	0.50	ND	100	80-120	2	20	07/17/23	
Matrix Spike Dup (AGG1038-MSD2), Source: AGG2016-02											
Nitrate as N	12	0.23	mg/L	11	1.2	97	80-120	2	20	07/18/23	
Nitrite as N	0.50	0.050	mg/L	0.50	ND	100	80-120	3	20	07/18/23	
EPA 351.2 - Quality Control											
Batch: AGG1212										Prepared: 7/19/2023	
Prep Method: Method Specific Preparation										Analyst: ERA	
Blank (AGG1212-BLK1)											
Total Kjeldahl Nitrogen	ND	1.0	mg/L							07/20/23	
Blank Spike (AGG1212-BS1)											
Total Kjeldahl Nitrogen	9.7	1.0	mg/L	10	ND	97	90-110			07/20/23	
Blank Spike Dup (AGG1212-BSD1)											
Total Kjeldahl Nitrogen	10	1.0	mg/L	10	ND	100	90-110	3	10	07/20/23	
Matrix Spike (AGG1212-MS1), Source: AGG1713-01											
Total Kjeldahl Nitrogen	13	1.0	mg/L	10	3.5	95	90-110			07/20/23	
Matrix Spike (AGG1212-MS2), Source: AGG2079-02											
Total Kjeldahl Nitrogen	9.1	1.0	mg/L	10	ND	91	90-110			07/20/23	
Matrix Spike Dup (AGG1212-MSD1), Source: AGG1713-01											
Total Kjeldahl Nitrogen	13	1.0	mg/L	10	3.5	95	90-110	0	10	07/20/23	

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 351.2 - Quality Control											
Batch: AGG1212										Prepared: 7/19/2023	
Prep Method: Method Specific Preparation										Analyst: ERA	
Matrix Spike Dup (AGG1212-MSD2), Source: AGG2079-02											
Total Kjeldahl Nitrogen	9.2	1.0	mg/L	10	ND	92	90-110	1	10	07/20/23	
SM 2510B - Quality Control											
Batch: AGG1087										Prepared: 7/18/2023	
Prep Method: Method Specific Preparation										Analyst: EFG	
Blank Spike (AGG1087-BS1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	100	90-110			07/18/23	
Blank Spike Dup (AGG1087-BSD1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	100	90-110	0	5	07/18/23	
Duplicate (AGG1087-DUP1), Source: AGG2016-02											
Conductivity @ 25C	360	1.0	umhos/cm		350			0	5	07/18/23	
SM 2510B - Quality Control											
Batch: AGG1088										Prepared: 7/18/2023	
Prep Method: Method Specific Preparation										Analyst: EFG	
Blank Spike (AGG1088-BS1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	99	90-110			07/18/23	
Blank Spike Dup (AGG1088-BSD1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	99	90-110	1	5	07/18/23	
Duplicate (AGG1088-DUP1), Source: AGG1977-01											
Conductivity @ 25C	210	1.0	umhos/cm		210			1	5	07/18/23	
SM 2540C - Quality Control											
Batch: AGG1131										Prepared: 7/18/2023	
Prep Method: Method Specific Preparation										Analyst: SYY	
Blank (AGG1131-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							07/18/23	
Blank Spike (AGG1131-BS1)											
Total Dissolved Solids	1000		mg/L	1000		103	70-130			07/18/23	
Duplicate (AGG1131-DUP1), Source: AGG2116-01											
Total Dissolved Solids	350	5.0	mg/L		340			1	10	07/18/23	
Duplicate (AGG1131-DUP2), Source: AGG2116-02											
Total Dissolved Solids	330	5.0	mg/L		330			2	10	07/18/23	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
  Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

Certificate of Analysis

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: **NA**

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certification.**

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-021
State of Nevada	CA000792022-1	State of Oregon - NELAP	4021-021
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1		

San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-007	State of Oregon - NELAP	4119-007

Vancouver

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-22		

AGG2075 Diamo9344 07/17/2023

BSK Associates SR-FL-0002-24

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 8°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes No NA Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received

"—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?	1-3				
Bacti $Na_2S_2O_3$	—	—					
None (P) White Cap	—	—	1C				
Cr6 (P) Lt. Green Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **DW**	Cl, pH > 8	P F					
Cr6 (P) Pink Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **WW**	pH 9.3-9.7	P F					
Cr6 (P) Black Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **7199** ***24 HOUR HOLD TIME***	pH 9.0-9.5	P F					
HNO_3 (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—					
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	P F	1A				
NaOH (P) Green Cap	Cl, pH >10	P F					
NaOH + ZnAc (P)	pH > 9	P F					
Dissolved Oxygen 300ml (g)	—	—					
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
HCl (AG) Lt. Blue Label O&G, Diesel, **TCP**	—	—					
Ascorbic, EDTA, KH_2Ct (AG) Pink Label 525	—	—					
Na_2SO_3 250mL (AG) Neon Green Label 515	—	—					
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—					
$Na_2S_2O_3$ (AG) Blue Label 548, THM, 524	—	—					
$Na_2S_2O_3$ (CG) Blue Label 504, 505, 547	—	—					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	P F					
NH_4Cl (AG) Purple Label 552	—	—					
EDA (P) or (AG) Brown Label DBPs	—	—					
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—					
Buffer pH 4 (CG)	—	—					
H_3PO_4 (CG) Salmon Label	—	—					
Trizma – EPA 537.1 Light Blue Label **FB**	---	---					
Ammonia Acetate - EPA 533 Purple Label **FB**	---	---					
Bottled Water	—	—					
Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—					
Clear Glass	—	—					
OTHER:	—	—					

NH 7.17.23

Split

	Container	Preservative	Lot #	Initials	Date/Time
S P					
S P					

Preservation Check
pH Lot # AG04945
Cl Lot #

Comments

*Preservation check completed by lab performing analysis.

✓ **Indicates Blanks Received**

504 ___ 524.2 ___ TTHM ___ 537/533 ___ TCP___

✓ **MS/MSD Received Method:** _____

Labeled by: **Labels Checked by:**

Scanned: _____ Rush/Short HT Page: _____ Time:_____

BSK ASSOCIATES
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 · Fax (559) 497-2893
www.bskassociates.com

Turnaround Time Request
- ☐ Standard - 10 business days
- ☐ Rush (Surcharge may apply)
- Date needed:

AGG2075 Diamo9344 07/17/2023

10 Y

*Required Fields

Temp: 27.8° #77

Company/Client Name*: Diamond D Dairy	**Report Attention*:** Rance Darrell Additional cc's: madisone@jmlordinc.com	**Invoice To*:** PO#:	**Phone*:** **Fax:** **E-mail*:**
Address*: 8265 Hanford Armona Rd.	**City*:** Hanford	**State*:** CA	**Zip*:** 93230
Project:	**Project #:**	**How would you like to receive your completed results?*** ☐ E-Mail ☐ Fax ☐ Mail	
Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type: _____ **Sampler Name (Printed/Signature)*:** Madison Looper MB Looper	**Regulatory Carbon Copies:** ☐ SWRCB (Drinking Water) ☐ Merced Co ☐ Fresno Co ☐ Madera Co ☐ Tulare Co ☐ Other: _____	**Regulatory Compliance:** ☐ EDT to California SWRCB (Drinking Water) System Number*: _____ ☐ Geotracker #: _____	

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	RB5-Well	RB5 Well-5 Year Well test	RB5-Surface
1	Canal	7/17	8:55	SW				X
2	Lake Side Ditch	1	11:05	1				1
3	settlers Canal	1	11:05	1				1

NH 7-17-23

Relinquished by: (Signature and Printed Name) MB Looper Madison Looper	Company: JM Lord Inc	Date: 7/17	Time: 1600	Received by: (Signature and Printed Name)	Company
Relinquished by: (Signature and Printed Name)	Company	Date: 7/17	Time	Received by: (Signature and Printed Name)	Company
Received for Lab by: (Signature and Printed Name) NH/AMMEND		Date: 7-17-23	Time: 1600	Payment Received at Delivery: Date:	Amount: Check / Cash PIA#: Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier: _____ Custody Seal: Y / N

Cooling Method: Wet Blue None Chilling Process Begun: Y / N

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AGJ2290
10/30/2023
Invoice: AG25634

Dustie Christensen
Diamond D Dairy
4728 12th Ave
Hanford, CA 93230

RE: Report for AGJ2290 RB5 Well

Dear Dustie Christensen,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 10/16/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, PM Staff , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Adam Trevarrow, Project Manager

Accredited in Accordance with NELAP
ORELAP #4021

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Case Narrative

Project and Report Details		Invoice Details	
Client:	Diamond D Dairy	**Invoice To:**	Diamond D Dairy
Report To:	Dustie Christensen	**Invoice Attn:**	Danny Danell
Project #:	-	**Project PO#:**	-
Received:	10/16/2023 - 14:33		
Report Due:	10/30/2023		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 20.5

Containers Intact
COC/Labels Agree
Received On Blue Ice
Sample(s) arrived at lab on same day sampled.
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

MS1.0 Matrix spike recoveries exceed control limits.

Report Distribution

Recipient(s)	Report Format	CC:
Rance Danell	FINAL.RPT	
Danny Danell	FINAL.RPT	
Madison Looper	FINAL.RPT	mike@jmlordinc.com

Certificate of Analysis

Sample ID: AGJ2290-01
Sampled By: Dustie Christensen
Sample Description: Domestic Well #27D1

Sample Date - Time: 10/16/2023 - 11:00
Matrix: Ground Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320B	**110**	3.0	mg/L	1	AGJ1098	10/17/23	10/17/23	
Bicarbonate as CaCO3	SM 2320B	**97**	3.0	mg/L	1	AGJ1098	10/17/23	10/17/23	
Carbonate as CaCO3	SM 2320B	**8.3**	3.0	mg/L	1	AGJ1098	10/17/23	10/17/23	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AGJ1098	10/17/23	10/17/23	
Chloride	EPA 300.0	**57**	1.0	mg/L	1	AGJ1470	10/20/23	10/20/23	
Sulfate as SO4	EPA 300.0	**14**	1.0	mg/L	1	AGJ1470	10/20/23	10/20/23	
Total Dissolved Solids	SM 2540C	**340**	5.0	mg/L	1	AGJ1589	10/23/23	10/23/23	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	**5.9**	0.10	mg/L	1	AGJ1301	10/19/23	10/20/23	
Magnesium	EPA 200.7	**0.49**	0.10	mg/L	1	AGJ1301	10/19/23	10/20/23	
Sodium	EPA 200.7	**81**	1.0	mg/L	1	AGJ1301	10/19/23	10/20/23	

Certificate of Analysis

Sample ID: AGJ2290-02
Sampled By: Dustie Christensen
Sample Description: Domestic Well #27D2

Sample Date - Time: 10/16/2023 - 11:10
Matrix: Ground Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320B	**310**	3.0	mg/L	1	AGJ1110	10/17/23	10/17/23	
Bicarbonate as CaCO3	SM 2320B	**310**	3.0	mg/L	1	AGJ1110	10/17/23	10/17/23	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AGJ1110	10/17/23	10/17/23	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AGJ1110	10/17/23	10/17/23	
Chloride	EPA 300.0	**100**	1.0	mg/L	1	AGJ1470	10/20/23	10/20/23	
Sulfate as SO4	EPA 300.0	**95**	1.0	mg/L	1	AGJ1470	10/20/23	10/20/23	
Total Dissolved Solids	SM 2540C	**830**	5.0	mg/L	1	AGJ1589	10/23/23	10/23/23	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	**70**	0.10	mg/L	1	AGJ1301	10/19/23	10/20/23	
Magnesium	EPA 200.7	**8.2**	0.10	mg/L	1	AGJ1301	10/19/23	10/20/23	
Sodium	EPA 200.7	**190**	1.0	mg/L	1	AGJ1301	10/19/23	10/20/23	

Certificate of Analysis

Sample ID: AGJ2290-03
Sampled By: Dustie Christensen
Sample Description: Domestic Well #28D

Sample Date - Time: 10/16/2023 - 11:40
Matrix: Ground Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320B	**130**	3.0	mg/L	1	AGJ1098	10/17/23	10/17/23	
Bicarbonate as CaCO3	SM 2320B	**130**	3.0	mg/L	1	AGJ1098	10/17/23	10/17/23	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AGJ1098	10/17/23	10/17/23	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AGJ1098	10/17/23	10/17/23	
Chloride	EPA 300.0	**340**	2.0	mg/L	2	AGJ1470	10/20/23	10/20/23	
Sulfate as SO4	EPA 300.0	**93**	2.0	mg/L	2	AGJ1470	10/20/23	10/20/23	
Total Dissolved Solids	SM 2540C	**1200**	5.0	mg/L	1	AGJ1589	10/23/23	10/23/23	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	**140**	0.10	mg/L	1	AGJ1301	10/19/23	10/20/23	
Magnesium	EPA 200.7	**7.9**	0.10	mg/L	1	AGJ1301	10/19/23	10/20/23	
Sodium	EPA 200.7	**180**	1.0	mg/L	1	AGJ1301	10/19/23	10/20/23	

Certificate of Analysis

Sample ID: AGJ2290-04
Sampled By: Dustie Christensen
Sample Description: Domestic Well #51D

Sample Date - Time: 10/16/2023 - 11:15
Matrix: Ground Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	**760**	1.0	umhos/cm	1	AGJ1098	10/17/23	10/17/23	
Nitrate as N	EPA 300.0	**0.28**	0.23	mg/L	1	AGJ1069	10/16/23 23:54	10/16/23	

Certificate of Analysis

Sample ID: AGJ2290-05
Sampled By: Dustie Christensen
Sample Description: Domestic Well #54D

Sample Date - Time: 10/16/2023 - 11:25
Matrix: Ground Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	**510**	1.0	umhos/cm	1	AGJ1098	10/17/23	10/17/23	
Nitrate as N	EPA 300.0	**0.25**	0.23	mg/L	1	AGJ1069	10/16/23 23:38	10/16/23	

Certificate of Analysis

Sample ID: AGJ2290-06
Sampled By: Dustie Christensen
Sample Description: Barn Well 35 (Domestic Well)

Sample Date - Time: 10/16/2023 - 11:30
Matrix: Ground Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	**420**	1.0	umhos/cm	1	AGJ1098	10/17/23	10/17/23	
Nitrate as N	EPA 300.0	**0.63**	0.23	mg/L	1	AGJ1069	10/16/23 23:23	10/16/23	

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: AGJ1069										Prepared: 10/16/2023	
Prep Method: Method Specific Preparation										Analyst: AAS	
Blank (AGJ1069-BLK1)											
Nitrate as N	ND	0.23	mg/L							10/16/23	
Blank Spike (AGJ1069-BS1)											
Nitrate as N	23	0.23	mg/L	23	ND	101	90-110			10/16/23	
Matrix Spike (AGJ1069-MS1), Source: AGJ2251-01											
Nitrate as N	16	0.23	mg/L	11	4.1	105	80-120			10/16/23	
Matrix Spike (AGJ1069-MS2), Source: AGJ2260-02											
Nitrate as N	14	0.23	mg/L	11	1.8	105	80-120			10/17/23	
Matrix Spike Dup (AGJ1069-MSD1), Source: AGJ2251-01											
Nitrate as N	16	0.23	mg/L	11	4.1	107	80-120	1	20	10/16/23	
Matrix Spike Dup (AGJ1069-MSD2), Source: AGJ2260-02											
Nitrate as N	14	0.23	mg/L	11	1.8	104	80-120	1	20	10/17/23	
EPA 300.0 - Quality Control											
Batch: AGJ1470										Prepared: 10/20/2023	
Prep Method: Method Specific Preparation										Analyst: IDM	
Blank (AGJ1470-BLK1)											
Chloride	ND	1.0	mg/L							10/20/23	
Sulfate as SO4	ND	1.0	mg/L							10/20/23	
Blank Spike (AGJ1470-BS1)											
Chloride	100	1.0	mg/L	100	ND	104	90-110			10/20/23	
Sulfate as SO4	100	1.0	mg/L	100	ND	103	90-110			10/20/23	
Matrix Spike (AGJ1470-MS1), Source: AGJ2290-01											
Chloride	110	1.0	mg/L	50	57	102	80-120			10/20/23	
Sulfate as SO4	66	1.0	mg/L	50	14	104	80-120			10/20/23	
Matrix Spike (AGJ1470-MS2), Source: SGJ0477-01											
Chloride	65	1.0	mg/L	50	13	105	80-120			10/20/23	
Sulfate as SO4	73	1.0	mg/L	50	21	104	80-120			10/20/23	
Matrix Spike Dup (AGJ1470-MSD1), Source: AGJ2290-01											
Chloride	110	1.0	mg/L	50	57	103	80-120	1	20	10/20/23	
Sulfate as SO4	67	1.0	mg/L	50	14	105	80-120	1	20	10/20/23	
Matrix Spike Dup (AGJ1470-MSD2), Source: SGJ0477-01											
Chloride	66	1.0	mg/L	50	13	106	80-120	1	20	10/20/23	
Sulfate as SO4	74	1.0	mg/L	50	21	105	80-120	1	20	10/20/23	

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2320B - Quality Control											
Batch: AGJ1098										Prepared: 10/17/2023	
Prep Method: Method Specific Preparation										Analyst: BAG	
Blank (AGJ1098-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							10/17/23	
Bicarbonate as CaCO3	ND	3.0	mg/L							10/17/23	
Carbonate as CaCO3	ND	3.0	mg/L							10/17/23	
Hydroxide as CaCO3	ND	3.0	mg/L							10/17/23	
Blank Spike (AGJ1098-BS1)											
Alkalinity as CaCO3	98	3.0	mg/L	100	ND	98	80-120			10/17/23	
Blank Spike Dup (AGJ1098-BSD1)											
Alkalinity as CaCO3	100	3.0	mg/L	100	ND	100	80-120	1	20	10/17/23	
Duplicate (AGJ1098-DUP1), Source: AGJ2290-03											
Alkalinity as CaCO3	130	3.0	mg/L		130			2	10	10/17/23	
Bicarbonate as CaCO3	130	3.0	mg/L		130			2	10	10/17/23	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	10/17/23	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	10/17/23	
SM 2320B - Quality Control											
Batch: AGJ1110										Prepared: 10/17/2023	
Prep Method: Method Specific Preparation										Analyst: BAG	
Blank (AGJ1110-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							10/17/23	
Bicarbonate as CaCO3	ND	3.0	mg/L							10/17/23	
Carbonate as CaCO3	ND	3.0	mg/L							10/17/23	
Hydroxide as CaCO3	ND	3.0	mg/L							10/17/23	
Blank Spike (AGJ1110-BS1)											
Alkalinity as CaCO3	100	3.0	mg/L	100	ND	101	80-120			10/17/23	
Blank Spike Dup (AGJ1110-BSD1)											
Alkalinity as CaCO3	100	3.0	mg/L	100	ND	101	80-120	1	20	10/17/23	
Duplicate (AGJ1110-DUP1), Source: AGJ2239-01											
Alkalinity as CaCO3	8.1	3.0	mg/L		8.4			5	10	10/17/23	
Bicarbonate as CaCO3	8.1	3.0	mg/L		8.4			5	10	10/17/23	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	10/17/23	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	10/17/23	
SM 2510B - Quality Control											
Batch: AGJ1098										Prepared: 10/17/2023	
Prep Method: Method Specific Preparation										Analyst: BAG	
Blank Spike (AGJ1098-BS1)											

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2510B - Quality Control											
Batch: AGJ1098										Prepared: 10/17/2023	
Prep Method: Method Specific Preparation										Analyst: BAG	
Blank Spike (AGJ1098-BS1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	100	90-110			10/17/23	
Blank Spike Dup (AGJ1098-BSD1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	100	90-110	0	5	10/17/23	
Duplicate (AGJ1098-DUP1), Source: AGJ2290-03											
Conductivity @ 25C	1700	1.0	umhos/cm		1700			0	5	10/17/23	
SM 2540C - Quality Control											
Batch: AGJ1589										Prepared: 10/23/2023	
Prep Method: Method Specific Preparation										Analyst: RRV	
Blank (AGJ1589-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							10/23/23	
Blank Spike (AGJ1589-BS1)											
Total Dissolved Solids	1100		mg/L	1000		105	70-130			10/23/23	
Duplicate (AGJ1589-DUP1), Source: AGJ2511-01											
Total Dissolved Solids	940	5.0	mg/L		970			4	10	10/23/23	
Duplicate (AGJ1589-DUP2), Source: AGJ2535-03											
Total Dissolved Solids	1100	5.0	mg/L		1200			5	10	10/23/23	

BSK Associates Laboratory Fresno

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: AGJ1301										Prepared: 10/19/2023	
Prep Method: EPA 200.2										Analyst: MDS	
Blank (AGJ1301-BLK2)											
Calcium	ND	0.10	mg/L							10/20/23	
Magnesium	ND	0.10	mg/L							10/20/23	
Sodium	ND	1.0	mg/L							10/20/23	
Blank Spike (AGJ1301-BS2)											
Calcium	4.6	0.10	mg/L	4.8	ND	96	85-115			10/20/23	
Magnesium	5.1	0.10	mg/L	4.8	ND	106	85-115			10/20/23	
Sodium	4.7	1.0	mg/L	4.8	ND	98	85-115			10/20/23	
Blank Spike Dup (AGJ1301-BSD2)											
Calcium	4.6	0.10	mg/L	4.8	ND	97	85-115	1	20	10/20/23	
Magnesium	5.1	0.10	mg/L	4.8	ND	106	85-115	0	20	10/20/23	
Sodium	4.7	1.0	mg/L	4.8	ND	99	85-115	1	20	10/20/23	
Matrix Spike (AGJ1301-MS3), Source: AGJ1939-01											
Calcium	22	0.10	mg/L	4.8	17	103	70-130			10/20/23	
Magnesium	5.5	0.10	mg/L	4.8	0.49	104	70-130			10/20/23	
Sodium	98	1.0	mg/L	4.8	93	100	70-130			10/20/23	
Matrix Spike (AGJ1301-MS4), Source: AGJ2456-04											
Calcium	6.0	0.10	mg/L	4.8	1.3	98	70-130			10/20/23	
Magnesium	5.2	0.10	mg/L	4.8	0.16	105	70-130			10/20/23	
Sodium	170	1.0	mg/L	4.8	170	133	70-130			10/20/23	MS1.0 ***High***
Matrix Spike Dup (AGJ1301-MSD3), Source: AGJ1939-01											
Calcium	21	0.10	mg/L	4.8	17	97	70-130	1	20	10/20/23	
Magnesium	5.4	0.10	mg/L	4.8	0.49	102	70-130	2	20	10/20/23	
Sodium	92	1.0	mg/L	4.8	93	NR	70-130	6	20	10/20/23	MS1.0 ***Low***
Matrix Spike Dup (AGJ1301-MSD4), Source: AGJ2456-04											
Calcium	6.1	0.10	mg/L	4.8	1.3	100	70-130	2	20	10/20/23	
Magnesium	5.2	0.10	mg/L	4.8	0.16	105	70-130	1	20	10/20/23	
Sodium	180	1.0	mg/L	4.8	170	246	70-130	3	20	10/20/23	MS1.0 ***High***

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
  Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

Certificate of Analysis

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: **NA**

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certification.**

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-022
State of Nevada	CA000792024-03	State of Oregon - NELAP	4021-022
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1

San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-008	State of Oregon - NELAP	4119-008

Vancouver

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-23		

AGJ2290 Diamo9344 10/16/2023

10

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 8°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes No NA Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received — "-" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?	1-3	4-6			
Bacti $Na_2S_2O_3$	—	—					
None (P) White Cap	—	—	1C	1A			
Cr6 (P) Lt. Green Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **DW**	Cl, pH > 8	P F					
Cr6 (P) Pink Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **WW**	pH 9.3-9.7	P F					
Cr6 (P) Black Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **7199** ***24 HOUR HOLD TIME***	pH 9.0-9.5	P F					
HNO_3 (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—	1B				
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	P F					
NaOH (P) Green Cap	Cl, pH >10	P F					
NaOH + ZnAc (P)	pH > 9	P F					
Dissolved Oxygen 300ml (g)	—	—					
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
HCl (AG) Lt. Blue Label O&G, Diesel, **TCP**	—	—					
Ascorbic, EDTA, KH_2Ct (AG) Pink Label 525	—	—					
Na_2SO_3 250mL (AG) Neon Green Label 515	—	—					
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—					
$Na_2S_2O_3$ (AG) Blue Label 548, THM, 524	—	—					
$Na_2S_2O_3$ (CG) Blue Label 504, 505, 547	—	—					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	P F					
NH_4Cl (AG) Purple Label 552	—	—					
EDA (P) or (AG) Brown Label DBPs	—	—					
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—					
Buffer pH 4 (CG)	—	—					
H_3PO_4 (CG) Salmon Label	—	—					
Trizma – EPA 537.1 Light Blue Label **FB**	---	---					
Ammonia Acetate - EPA 533 Purple Label **FB**	—	—					
Bottled Water	—	—					
Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—					
Clear Glass	—	—					
OTHER:	—	—					

JV 10/16/23

Split

	Container	Preservative	Lot #	Initials	Date/Time
S P					
S P					

Preservation Check
pH Lot #
Cl Lot #

Comments

*Preservation check completed by lab performing analysis.

✓ **Indicates Blanks Received**

504 ___ 524.2 ___ TTHM ___ 537/533 ___ TCP___

✓ **MS/MSD Received Method:** _____

Labeled by: **Labels Checked by:**

Scanned: CW Rush/Short HT Page: _____ Time: _____

TM

BSK ASSOCIATES
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 · Fax (559) 497-2893
www.bskassociates.com

Turnaround Time Request
☐ Standard - 10 business days
☐ Rush (Surcharge may apply)
Date needed:

AGJ2290 Diamo9344 10/16/2023

*Required Fields

Temp: 20.5 #77

Company/Client Name*:	Report Attention*:	Invoice To*:	Phone*:	Fax:
Diamond D Dairy	dustie			
	Additional cc's: dustie@jmlordinc.com	PO#:	E-mail*:	
Address*: 9601 Idaho Ave.	City*: Hanford	State*: CA	Zip*: 93230	
Project:	Project #:	How would you like to receive your completed results?* ☐ E-Mail ☐ Fax ☐ Mail		

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type: _____

Sampler Name (Printed/Signature)*: Dustie Christensen

Regulatory Carbon Copies: ☐ SWRCB (Drinking Water) ☐ Merced Co ☐ Fresno Co ☐ Madera Co ☐ Tulare Co ☐ Other: _____

Regulatory Compliance: ☐ EDT to California SWRCB (Drinking Water) System Number*: _____ ☐ Geotracker #: _____

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	RB5-Well	RB5 Well-5 Year Well test	RB5-Surface
1	Domestic well #27D1	10/16/23	11:00	GW			X	
2	Domestic well #27D2	"	11:10	"			"	
3	Domestic well #28D	"	11:40	"			"	
4	Domestic well #51D	"	11:15	"		X		
5	Domestic well #54D	"	11:25	"		"		
6	Barn well 35 (Domestic well	"	11:30	"		"		

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Dustie Christensen	JM Lord Inc	10/16/23	2:30		
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Received for Lab by: (Signature and Printed Name) Johnny Vue		Date: 10/16	Time: 1423	Payment Received at Delivery: Date:	Amount: PIA#: Check / Cash Init.

Shipping Method: ONTRAC UPS GSO (WALK-IN) FED EX Courier: _____

Cooling Method: Wet (Blue) None

Custody Seal: Y / N

Chilling Process Begun: Y / N

JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation. Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Diamond D Dairy **Date:** 7/7/23

Source ID: Canal **Time:** 8:55

Source Location: NE corner of dairy

Sample Properties at Time of Sampling

Sample Type: ☐ Groundwater Well ☒ Surface Water

EC: ☒ Measured in laboratory.
☐ Field measurement. EC _____ (µS or mS)
Circle the correct units for EC.

Ammonium: ☐ Field measurement. ☐ Present ☐ Absent
☒ Not Applicable.

Notes: Took sample from canal. Sample was clear + no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection. Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature: MB/copies

JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Diamond D Dairy **Date:** 7/7/23

Source ID: Lake Side Ditch **Time:** 11:05

Source Location: North side of field 4.

Sample Properties at Time of Sampling

Sample Type: ☐ Groundwater Well ☑ Surface Water

EC: ☑ Measured in laboratory.
☐ Field measurement. EC _____ (µS or mS)
Circle the correct units for EC.

Ammonium: ☐ Field measurement. ☐ Present ☐ Absent
☑ Not Applicable.

Notes: Took sample from ditch. Sample was clear & no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature: [signature]

JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Diamond D Dairy **Date:** 7/7/23

Source ID: Setters Canal **Time:** 11:05

Source Location: West side of field 1, or North side of field 3.

Sample Properties at Time of Sampling

Sample Type: ☐ Groundwater Well ☒ Surface Water

EC: ☒ Measured in laboratory.
☐ Field measurement. EC _____ (µS or mS)
Circle the correct units for EC.

Ammonium: ☐ Field measurement. ☐ Present ☐ Absent
☒ Not Applicable.

Notes: Took sample from canal. Sample clear & no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature: MB/Lopez

BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AGG2075
7/31/2023
Invoice: AG17570

Rance Danell
Diamond D Dairy
4728 12th Ave
Hanford, CA 93230

RE: Report for AGG2075 RB5 Surface Water

Dear Rance Danell,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 7/17/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, Mary Thao , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Mary Thao, Project Manager

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Diamond D Dairy	**Invoice To:**	Diamond D Dairy
Report To:	Rance Danell	**Invoice Attn:**	Danny Danell
Project #:	RB5-Surface	**Project PO#:**	-
Received:	7/17/2023 - 16:00		
Report Due:	7/31/2023		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 27.8

Custody Seals
Containers Intact
COC/Labels Agree
Received On Blue Ice
Sample(s) arrived at lab on same day sampled.
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Rance Danell	FINAL.RPT	
Danny Danell	FINAL.RPT	
Madison Looper	FINAL.RPT	

Certificate of Analysis

Sample ID: AGG2075-01
Sampled By: Madison Looper
Sample Description: Canal

Sample Date - Time: 07/17/2023 - 08:55
Matrix: Surface Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	**170**	1.0	umhos/cm	1	AGG1087	07/18/23	07/18/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGG1038	07/17/23 23:34	07/17/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1038	07/17/23 23:34	07/17/23	
Total Dissolved Solids	SM 2540C	**120**	5.0	mg/L	1	AGG1131	07/18/23	07/18/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1212	07/19/23	07/20/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

Certificate of Analysis

Sample ID: AGG2075-02
Sampled By: Madison Looper
Sample Description: Lake Side Ditch

Sample Date - Time: 07/17/2023 - 11:05
Matrix: Surface Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	**29**	1.0	umhos/cm	1	AGG1088	07/18/23	07/18/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGG1038	07/17/23 23:49	07/17/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1038	07/17/23 23:49	07/17/23	
Total Dissolved Solids	SM 2540C	**34**	5.0	mg/L	1	AGG1131	07/18/23	07/18/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1212	07/19/23	07/20/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

Certificate of Analysis

Sample ID: AGG2075-03
Sampled By: Madison Looper
Sample Description: Settlers Canal

Sample Date - Time: 07/17/2023 - 11:05
Matrix: Surface Water
Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	**29**	1.0	umhos/cm	1	AGG1088	07/18/23	07/18/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGG1038	07/18/23 00:03	07/18/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1038	07/18/23 00:03	07/18/23	
Total Dissolved Solids	SM 2540C	**37**	5.0	mg/L	1	AGG1131	07/18/23	07/18/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1212	07/19/23	07/20/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: AGG1038										Prepared: 7/17/2023	
Prep Method: Method Specific Preparation										Analyst: DXR	
Blank (AGG1038-BLK1)											
Nitrate as N	ND	0.23	mg/L							07/17/23	
Nitrite as N	ND	0.050	mg/L							07/17/23	
Blank Spike (AGG1038-BS1)											
Nitrate as N	22	0.23	mg/L	23	ND	97	90-110			07/17/23	
Nitrite as N	1.0	0.050	mg/L	1.0	ND	101	90-110			07/17/23	
Matrix Spike (AGG1038-MS1), Source: AGG1995-02											
Nitrate as N	10	0.23	mg/L	11	ND	91	80-120			07/17/23	
Nitrite as N	0.49	0.050	mg/L	0.50	ND	98	80-120			07/17/23	
Matrix Spike (AGG1038-MS2), Source: AGG2016-02											
Nitrate as N	12	0.23	mg/L	11	1.2	94	80-120			07/18/23	
Nitrite as N	0.49	0.050	mg/L	0.50	ND	97	80-120			07/18/23	
Matrix Spike Dup (AGG1038-MSD1), Source: AGG1995-02											
Nitrate as N	10	0.23	mg/L	11	ND	92	80-120	2	20	07/17/23	
Nitrite as N	0.50	0.050	mg/L	0.50	ND	100	80-120	2	20	07/17/23	
Matrix Spike Dup (AGG1038-MSD2), Source: AGG2016-02											
Nitrate as N	12	0.23	mg/L	11	1.2	97	80-120	2	20	07/18/23	
Nitrite as N	0.50	0.050	mg/L	0.50	ND	100	80-120	3	20	07/18/23	
EPA 351.2 - Quality Control											
Batch: AGG1212										Prepared: 7/19/2023	
Prep Method: Method Specific Preparation										Analyst: ERA	
Blank (AGG1212-BLK1)											
Total Kjeldahl Nitrogen	ND	1.0	mg/L							07/20/23	
Blank Spike (AGG1212-BS1)											
Total Kjeldahl Nitrogen	9.7	1.0	mg/L	10	ND	97	90-110			07/20/23	
Blank Spike Dup (AGG1212-BSD1)											
Total Kjeldahl Nitrogen	10	1.0	mg/L	10	ND	100	90-110	3	10	07/20/23	
Matrix Spike (AGG1212-MS1), Source: AGG1713-01											
Total Kjeldahl Nitrogen	13	1.0	mg/L	10	3.5	95	90-110			07/20/23	
Matrix Spike (AGG1212-MS2), Source: AGG2079-02											
Total Kjeldahl Nitrogen	9.1	1.0	mg/L	10	ND	91	90-110			07/20/23	
Matrix Spike Dup (AGG1212-MSD1), Source: AGG1713-01											
Total Kjeldahl Nitrogen	13	1.0	mg/L	10	3.5	95	90-110	0	10	07/20/23	

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 351.2 - Quality Control											
Batch: AGG1212										Prepared: 7/19/2023	
Prep Method: Method Specific Preparation										Analyst: ERA	
Matrix Spike Dup (AGG1212-MSD2), Source: AGG2079-02											
Total Kjeldahl Nitrogen	9.2	1.0	mg/L	10	ND	92	90-110	1	10	07/20/23	
SM 2510B - Quality Control											
Batch: AGG1087										Prepared: 7/18/2023	
Prep Method: Method Specific Preparation										Analyst: EFG	
Blank Spike (AGG1087-BS1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	100	90-110			07/18/23	
Blank Spike Dup (AGG1087-BSD1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	100	90-110	0	5	07/18/23	
Duplicate (AGG1087-DUP1), Source: AGG2016-02											
Conductivity @ 25C	360	1.0	umhos/cm		350			0	5	07/18/23	
SM 2510B - Quality Control											
Batch: AGG1088										Prepared: 7/18/2023	
Prep Method: Method Specific Preparation										Analyst: EFG	
Blank Spike (AGG1088-BS1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	99	90-110			07/18/23	
Blank Spike Dup (AGG1088-BSD1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	99	90-110	1	5	07/18/23	
Duplicate (AGG1088-DUP1), Source: AGG1977-01											
Conductivity @ 25C	210	1.0	umhos/cm		210			1	5	07/18/23	
SM 2540C - Quality Control											
Batch: AGG1131										Prepared: 7/18/2023	
Prep Method: Method Specific Preparation										Analyst: SYY	
Blank (AGG1131-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							07/18/23	
Blank Spike (AGG1131-BS1)											
Total Dissolved Solids	1000		mg/L	1000		103	70-130			07/18/23	
Duplicate (AGG1131-DUP1), Source: AGG2116-01											
Total Dissolved Solids	350	5.0	mg/L		340			1	10	07/18/23	
Duplicate (AGG1131-DUP2), Source: AGG2116-02											
Total Dissolved Solids	330	5.0	mg/L		330			2	10	07/18/23	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
  Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

Certificate of Analysis

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: **NA**

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certification.**

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-021
State of Nevada	CA000792022-1	State of Oregon - NELAP	4021-021
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1		

San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-007	State of Oregon - NELAP	4119-007

Vancouver

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-22		

AGG2075 Diamo9344 07/17/2023

BSK Associates SR-FL-0002-24

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 8°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes No NA Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received

"—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?	1-3				
Bacti $Na_2S_2O_3$	—	—					
None (P) White Cap	—	—	1C				
Cr6 (P) Lt. Green Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **DW**	Cl, pH > 8	P F					
Cr6 (P) Pink Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **WW**	pH 9.3-9.7	P F					
Cr6 (P) Black Label/Blue Cap $NH_4OH(NH_4)_2SO_4$ **7199** ***24 HOUR HOLD TIME***	pH 9.0-9.5	P F					
HNO_3 (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—					
H_2SO_4 (P) or (AG) Yellow Cap/Label	pH < 2	P F	1A				
NaOH (P) Green Cap	Cl, pH >10	P F					
NaOH + ZnAc (P)	pH > 9	P F					
Dissolved Oxygen 300ml (g)	—	—					
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
HCl (AG) Lt. Blue Label O&G, Diesel, **TCP**	—	—					
Ascorbic, EDTA, KH_2Ct (AG) Pink Label 525	—	—					
Na_2SO_3 250mL (AG) Neon Green Label 515	—	—					
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—					
$Na_2S_2O_3$ (AG) Blue Label 548, THM, 524	—	—					
$Na_2S_2O_3$ (CG) Blue Label 504, 505, 547	—	—					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH < 3	P F					
NH_4Cl (AG) Purple Label 552	—	—					
EDA (P) or (AG) Brown Label DBPs	—	—					
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—					
Buffer pH 4 (CG)	—	—					
H_3PO_4 (CG) Salmon Label	—	—					
Trizma – EPA 537.1 Light Blue Label **FB**	---	---					
Ammonia Acetate - EPA 533 Purple Label **FB**	---	---					
Bottled Water	—	—					
Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—					
Clear Glass	—	—					
OTHER:	—	—					

NH 7.17.23

Split

	Container	Preservative	Lot #	Initials	Date/Time
S P					
S P					

Preservation Check
pH Lot # AG04945
Cl Lot #

Comments

*Preservation check completed by lab performing analysis.

✓ **Indicates Blanks Received**

504 ___ 524.2 ___ TTHM ___ 537/533 ___ TCP___

✓ **MS/MSD Received Method:** _____

Labeled by: **Labels Checked by:**

Scanned: _____ Rush/Short HT Page: _____ Time:_____

BSK ASSOCIATES
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 · Fax (559) 497-2893
www.bskassociates.com

Turnaround Time Request
- ☐ Standard - 10 business days
- ☐ Rush (Surcharge may apply)
- Date needed:

AGG2075 Diamo9344 07/17/2023

10 Y

*Required Fields

Temp: 27.8° #77

Company/Client Name*: Diamond D Dairy	**Report Attention*:** Rance Darrell Additional cc's: madisone@jmlordinc.com	**Invoice To*:** PO#:	**Phone*:** **Fax:** **E-mail*:**
Address*: 8265 Hanford Armona Rd.	**City*:** Hanford	**State*:** CA	**Zip*:** 93230
Project:	**Project #:**	**How would you like to receive your completed results?*** ☐ E-Mail ☐ Fax ☐ Mail	
Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type: _____ **Sampler Name (Printed/Signature)*:** Madison Looper MB Looper	**Regulatory Carbon Copies:** ☐ SWRCB (Drinking Water) ☐ Merced Co ☐ Fresno Co ☐ Madera Co ☐ Tulare Co ☐ Other: _____	**Regulatory Compliance:** ☐ EDT to California SWRCB (Drinking Water) System Number*: _____ ☐ Geotracker #: _____	

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	RB5-Well	RB5 Well-5 Year Well test	RB5-Surface
1	Canal	7/17	8:55	SW				X
2	Lake Side Ditch	1	11:05	1				1
3	settlers Canal	1	11:05	1				1

NH 7-17-23

Relinquished by: (Signature and Printed Name) MB Looper Madison Looper	Company: JM Lord Inc	Date: 7/17	Time: 1600	Received by: (Signature and Printed Name)	Company
Relinquished by: (Signature and Printed Name)	Company	Date: 7/17	Time	Received by: (Signature and Printed Name)	Company
Received for Lab by: (Signature and Printed Name) NH/AMMEND		Date: 7-17-23	Time: 1600	Payment Received at Delivery: Date:	Amount: Check / Cash PIA#: Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier: _____ Custody Seal: Y / N

Cooling Method: Wet Blue None Chilling Process Begun: Y / N