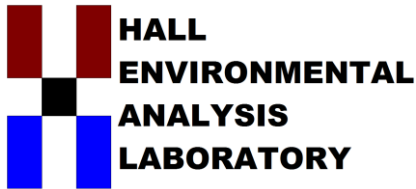


**APPENDIX B**

**ANALYTICAL LABORATORY REPORTS  
(Provided in Electronic Format via CD Located on Front Cover of Report)**



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 04, 2022

Marques Hatfield  
Glorieta GeoScience  
P.O. Box 5727  
Santa Fe, NM 87502  
TEL: (505) 983-5446  
FAX (505) 983-6482

RE: Organ Dairy

OrderNo.: 2202C31

Dear Marques Hatfield:

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/25/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 21, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202C31

Date Reported: 4/4/2022

**CLIENT:** Glorieta GeoScience

**Client Sample ID:** MW-126-04

**Project:** Organ Dairy

**Collection Date:** 2/24/2022 9:50:00 AM

**Lab ID:** 2202C31-001

**Matrix:** AQUEOUS

**Received Date:** 2/25/2022 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	770	50	*	mg/L	100	2/25/2022 8:08:11 PM	R86105
Nitrogen, Nitrate (As N)	23	1.0	*	mg/L	10	2/25/2022 7:55:46 PM	R86105
Sulfate	700	50	*	mg/L	100	2/25/2022 8:08:11 PM	R86105
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3110	20.0	*	mg/L	1	3/8/2022 11:05:00 AM	65924
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/2/2022 1:51:00 PM	65857

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 2202C31  
 Date Reported: 4/4/2022

**CLIENT:** Glorieta GeoScience

**Client Sample ID:** MW-126-05

**Project:** Organ Dairy

**Collection Date:** 2/24/2022 11:15:00 AM

**Lab ID:** 2202C31-002

**Matrix:** AQUEOUS

**Received Date:** 2/25/2022 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	710	50	*	mg/L	100	2/25/2022 8:33:01 PM	R86105
Nitrogen, Nitrate (As N)	10	1.0	*	mg/L	10	2/25/2022 8:20:36 PM	R86105
Sulfate	750	50	*	mg/L	100	2/25/2022 8:33:01 PM	R86105
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3270	20.0	*	mg/L	1	3/8/2022 11:05:00 AM	65924
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/2/2022 1:51:00 PM	65857

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 2202C31  
 Date Reported: 4/4/2022

**CLIENT:** Glorieta GeoScience

**Client Sample ID:** MW-126-07

**Project:** Organ Dairy

**Collection Date:** 2/24/2022 12:25:00 PM

**Lab ID:** 2202C31-003

**Matrix:** AQUEOUS

**Received Date:** 2/25/2022 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	870	50	*	mg/L	100	2/25/2022 8:57:51 PM	R86105
Nitrogen, Nitrate (As N)	22	1.0	*	mg/L	10	2/25/2022 8:45:25 PM	R86105
Sulfate	860	50	*	mg/L	100	2/25/2022 8:57:51 PM	R86105
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3550	20.0	*	mg/L	1	3/8/2022 11:05:00 AM	65924
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/2/2022 1:51:00 PM	65857

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202C31

Date Reported: 4/4/2022

**CLIENT:** Glorieta GeoScience

**Client Sample ID:** MW-126-09

**Project:** Organ Dairy

**Collection Date:** 2/24/2022 1:10:00 PM

**Lab ID:** 2202C31-004

**Matrix:** AQUEOUS

**Received Date:** 2/25/2022 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	150	5.0		mg/L	10	2/25/2022 9:35:05 PM	R86105
Nitrogen, Nitrate (As N)	1.0	1.0		mg/L	10	2/25/2022 9:35:05 PM	R86105
Sulfate	110	5.0		mg/L	10	2/25/2022 9:35:05 PM	R86105
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	856	20.0	*	mg/L	1	3/8/2022 11:05:00 AM	65924
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/2/2022 1:51:00 PM	65857

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 2202C31  
 Date Reported: 4/4/2022

**CLIENT:** Glorieta GeoScience

**Client Sample ID:** MW-126-12

**Project:** Organ Dairy

**Collection Date:** 2/24/2022 10:55:00 AM

**Lab ID:** 2202C31-005

**Matrix:** AQUEOUS

**Received Date:** 2/25/2022 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	420	50	*	mg/L	100	2/25/2022 10:12:18 PM	R86105
Nitrogen, Nitrate (As N)	4.6	1.0		mg/L	10	2/25/2022 9:59:54 PM	R86105
Sulfate	560	50	*	mg/L	100	2/25/2022 10:12:18 PM	R86105
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2180	20.0	*	mg/L	1	3/8/2022 11:05:00 AM	65924
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/2/2022 1:51:00 PM	65857

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202C31

Date Reported: 4/4/2022

**CLIENT:** Glorieta GeoScience

**Client Sample ID:** MW-126-13

**Project:** Organ Dairy

**Collection Date:** 2/24/2022 9:05:00 AM

**Lab ID:** 2202C31-006

**Matrix:** AQUEOUS

**Received Date:** 2/25/2022 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	760	50	*	mg/L	100	2/25/2022 10:37:08 PM	R86105
Nitrogen, Nitrate (As N)	15	1.0	*	mg/L	10	2/25/2022 10:24:43 PM	R86105
Sulfate	840	50	*	mg/L	100	2/25/2022 10:37:08 PM	R86105
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3380	20.0	*	mg/L	1	3/8/2022 11:05:00 AM	65924
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/2/2022 1:51:00 PM	65857

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 2202C31  
 Date Reported: 4/4/2022

**CLIENT:** Glorieta GeoScience

**Client Sample ID:** LRG 458S

**Project:** Organ Dairy

**Collection Date:** 2/24/2022 12:50:00 PM

**Lab ID:** 2202C31-007

**Matrix:** AQUEOUS

**Received Date:** 2/25/2022 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	53	5.0		mg/L	10	2/25/2022 10:49:33 PM	R86105
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	2/25/2022 10:49:33 PM	R86105
Sulfate	77	5.0		mg/L	10	2/25/2022 10:49:33 PM	R86105
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	472	20.0		mg/L	1	3/8/2022 11:05:00 AM	65924
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/2/2022 1:51:00 PM	65857

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 2202C31  
 Date Reported: 4/4/2022

**CLIENT:** Glorieta GeoScience

**Client Sample ID:** Lagoon

**Project:** Organ Dairy

**Collection Date:** 2/24/2022 12:05:00 PM

**Lab ID:** 2202C31-008

**Matrix:** AQUEOUS

**Received Date:** 2/25/2022 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	1700	50	*	mg/L	100	2/25/2022 11:26:47 PM	R86105
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	2/25/2022 11:14:22 PM	R86105
Sulfate	110	5.0		mg/L	10	2/25/2022 11:14:22 PM	R86105
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	5150	1000	*D	mg/L	1	3/8/2022 11:05:00 AM	65924
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	330	10	D	mg/L	1	3/2/2022 1:51:00 PM	65857
<b>EPA METHOD 200.7: TOTAL METALS</b>							Analyst: <b>ELS</b>
Sulfur	78	5.0		mg/L	1	3/8/2022 8:32:46 AM	65932

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202C31

04-Apr-22

**Client:** Glorieta GeoScience

**Project:** Organ Dairy

Sample ID: <b>MB-65932</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 200.7: Total Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65932</b>	RunNo: <b>86311</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043637</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfur	ND	1.0								

Sample ID: <b>LLCS-S-65932</b>	SampType: <b>LCSLL</b>	TestCode: <b>EPA Method 200.7: Total Metals</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>65932</b>	RunNo: <b>86311</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043738</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfur	ND	1.0	1.000	0	93.4	50	150			

Sample ID: <b>LCS-S-65932</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 200.7: Total Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65932</b>	RunNo: <b>86311</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043740</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfur	47	1.0	50.00	0	93.8	85	115			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202C31

04-Apr-22

**Client:** Glorieta GeoScience  
**Project:** Organ Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86105</b>	RunNo: <b>86105</b>								
Prep Date:	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3034768</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86105</b>	RunNo: <b>86105</b>								
Prep Date:	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3034769</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.2	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.7	90	110			
Sulfate	9.5	0.50	10.00	0	95.1	90	110			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202C31

04-Apr-22

**Client:** Glorieta GeoScience

**Project:** Organ Dairy

Sample ID: <b>MB-65924</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65924</b>	RunNo: <b>86304</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043471</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65924</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65924</b>	RunNo: <b>86304</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043472</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Sample ID: <b>2202C31-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>MW-126-04</b>	Batch ID: <b>65924</b>	RunNo: <b>86304</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043474</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	3100	20.0						0.257	10	*

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202C31

04-Apr-22

Client: Glorieta GeoScience

Project: Organ Dairy

Sample ID: <b>MB-65857</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65857</b>	RunNo: <b>86194</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3038036</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65857</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65857</b>	RunNo: <b>86194</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3038037</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.7	1.0	10.00	0	96.6	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

**Sample Log-In Check List**

Client Name: **Glorieta GeoScience**

Work Order Number: **2202C31**

RcptNo: **1**

Received By: **Juan Rojas** 2/25/2022 9:45:00 AM *Juan Rojas*

Completed By: **Desiree Dominguez** 2/25/2022 10:01:37 AM *DD*

Reviewed By: *KPK 2/25/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA  *JR 2/25/22*
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No
- (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No
- (If no, notify customer for authorization.)

# of preserved bottles checked for pH: *9*

(*2* or >12 unless noted)

Adjusted? *yes*

Checked by: *JR 2/25/22*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks: *1.0ml of HNO3 was added to sample 008B for pH < 2.*

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good				

*JR 2/25/22.*

# Chain-of-Custody Record

Client: Clarista Geosciences  
Mailing Address: 1723 2nd St  
Santa Fe NM 87505  
Phone #: 505-983-5446  
email or Fax#:

QA/QC Package:  Standard  Level 4 (Full Validation)  
Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/24/02	950	Aq	MW-126-04	2x500ml	H <sub>2</sub> SO <sub>4</sub>	2202C31
	1115		MW-126-05			-001
	1225		MW-126-07			-002
	1310		MW-126-09			-003
	1055		MW-126-12			-004
	905		MW-126-13			-005
	1250	Barn				-006
	1205	Lagoon				-007
				2x500ml (x 250ml)	H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub>	-008

Date: 2/25/02 Time: 940  
Relinquished by: Zachary Delay  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_

Turn-Around Time:  Standard  Rush  
Project Name: Organ Dairy  
Project #: \_\_\_\_\_  
Project Manager: Marques Hatfield  
Sampler: Zachary Delay  
On Ice:  Yes  No  
# of Coolers: 1  
Cooler Temp (including CP): 10.0 ± 0.9 (°C)

Analysis Request	Analysis Request	Analysis Request	Analysis Request	Analysis Request	Analysis Request	Analysis Request	Analysis Request	Analysis Request	Analysis Request			
BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TDS, Cl, SO <sub>4</sub>	TW, NO <sub>3</sub>	Total S

Received by: [Signature] Date: 2/25/02 Time: 9:45  
Via: CDU  
Remarks: HEAL# 2202C31



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
www.hallenvironmental.com  
4901 Hawkins NE - Albuquerque, NM 87109  
Tel. 505-345-3975 Fax 505-345-4107



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 07, 2022

Regina Mullen

EA Engineering Alb  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Buena Vista Dairy 2

OrderNo.: 2202A58

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/23/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202A58

Date Reported: 3/7/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 74-03

**Project:** Buena Vista Dairy 2

**Collection Date:** 2/22/2022 10:45:00 AM

**Lab ID:** 2202A58-001

**Matrix:** AQUEOUS

**Received Date:** 2/23/2022 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	250	50		mg/L	100	2/23/2022 4:44:55 PM	R86073
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/23/2022 4:32:03 PM	R86073
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	2/23/2022 4:32:03 PM	R86073
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1340	100	*D	mg/L	1	3/1/2022 6:15:00 PM	65835
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/1/2022 9:59:00 AM	65833

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202A58

Date Reported: 3/7/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 74-02

**Project:** Buena Vista Dairy 2

**Collection Date:** 2/22/2022 11:50:00 AM

**Lab ID:** 2202A58-002

**Matrix:** AQUEOUS

**Received Date:** 2/23/2022 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	650	50	*	mg/L	100	2/23/2022 5:10:40 PM	R86073
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/23/2022 4:57:47 PM	R86073
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	2/23/2022 4:57:47 PM	R86073
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2360	100	*D	mg/L	1	3/1/2022 6:15:00 PM	65835
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	2.2	1.0		mg/L	1	3/1/2022 9:59:00 AM	65833

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202A58

Date Reported: 3/7/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 74-01

**Project:** Buena Vista Dairy 2

**Collection Date:** 2/22/2022 1:54:00 PM

**Lab ID:** 2202A58-003

**Matrix:** AQUEOUS

**Received Date:** 2/23/2022 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	850	50	*	mg/L	100	2/23/2022 5:36:23 PM	R86073
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/23/2022 5:23:31 PM	R86073
Nitrogen, Nitrate (As N)	7.2	1.0		mg/L	10	2/23/2022 5:23:31 PM	R86073
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2940	40.0	*D	mg/L	1	3/1/2022 6:15:00 PM	65835
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/1/2022 9:59:00 AM	65833

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A58

07-Mar-22

Client: EA Engineering Alb

Project: Buena Vista Dairy 2

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86073</b>	RunNo: <b>86073</b>								
Prep Date:	Analysis Date: <b>2/23/2022</b>	SeqNo: <b>3032710</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86073</b>	RunNo: <b>86073</b>								
Prep Date:	Analysis Date: <b>2/23/2022</b>	SeqNo: <b>3032711</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.9	90	110			
Nitrogen, Nitrite (As N)	0.99	0.10	1.000	0	99.1	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	102	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A58

07-Mar-22

**Client:** EA Engineering Alb

**Project:** Buena Vista Dairy 2

Sample ID: <b>MB-65835</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65835</b>	RunNo: <b>86168</b>								
Prep Date: <b>2/28/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3036905</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65835</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65835</b>	RunNo: <b>86168</b>								
Prep Date: <b>2/28/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3036906</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202A58

07-Mar-22

**Client:** EA Engineering Alb

**Project:** Buena Vista Dairy 2

Sample ID: <b>MB-65833</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65833</b>	RunNo: <b>86156</b>								
Prep Date: <b>2/28/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3036546</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65833</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65833</b>	RunNo: <b>86156</b>								
Prep Date: <b>2/28/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3036547</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0	102	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2202A58

RcptNo: 1

Received By: Sean Livingston 2/23/2022 9:20:00 AM

Completed By: Desiree Dominguez 2/23/2022 9:53:43 AM

Reviewed By: 2/23/22 WPA

*S. Livingston*  
*DD*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA   
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 5. Sample(s) in proper container(s)? Yes  No   
 6. Sufficient sample volume for indicated test(s)? Yes  No   
 7. Are samples (except VOA and ONG) properly preserved? Yes  No   
 8. Was preservative added to bottles? Yes  No  NA   
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA   
 10. Were any sample containers received broken? Yes  No   
 11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 12. Are matrices correctly identified on Chain of Custody? Yes  No   
 13. Is it clear what analyses were requested? Yes  No   
 14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 3  
 (<2 or >12 unless noted)  
 Adjusted? NO  
 Checked by: JN 2/23/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good				

**Chain-of-Custody Record**

Client: \_\_\_\_\_  
EA Engineering, Science, and Technology  
Mailing Address: \_\_\_\_\_  
320 Gold Ave SW Suite  
Phone #: 505-715-4279  
email or Fax#: rmullen@east.com

QA/QC Package:  Standard  Level 4 (Full Validation)  
Accreditation:  Az Compliance  Nelac  Other  
 EDD (Type) \_\_\_\_\_

Turn-Around Time:  Standard  Rush  
Buena Vista : Dairy 2  
Project #:  
Project Manager: Gina Mullen

Sampler: Angel Nieto Rivera  
On Ice:  Yes  No  
# of Coolers: 1  
Cooler Temp (including CF): 1 ± 0.1 °C

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2-22	10:45	GW	74-03	2		2202A58 -001
2-22	11:50	GW	74-02	2		-002
2-22	13:54	GW	74-01	2		-003

Received by: *See FedEx* Date: 2/23/22 Time: 9:20  
Relinquished by: \_\_\_\_\_ Time: \_\_\_\_\_  
Via: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Time: \_\_\_\_\_

Nitrate/Nitrites EPA Method 300	TKN SM 4500 NORG C	Chloride EPA 300	TDS SM 2540 C MOD	Sulfate EPA 300	Phosphorus EPA 6010B	Total Sulfur															
X	X	X	X																		
X	X	X	X																		
X	X	X	X																		

Remarks:



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 15, 2022

Regina Mullen

EA Engineering Alb  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Buena Vista Dairy 2

OrderNo.: 2202B85

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/24/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202B85

Date Reported: 3/15/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 74-04

**Project:** Buena Vista Dairy 2

**Collection Date:** 2/23/2022 11:15:00 AM

**Lab ID:** 2202B85-001

**Matrix:** AQUEOUS

**Received Date:** 2/24/2022 2:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	730	50	*	mg/L	100	2/24/2022 8:43:30 PM	R86087
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/24/2022 8:30:39 PM	R86087
Nitrogen, Nitrate (As N)	12	1.0	*	mg/L	10	2/24/2022 8:30:39 PM	R86087
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2300	20.0	*	mg/L	1	3/4/2022 3:46:00 PM	65898
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/2/2022 10:33:00 AM	65856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202B85

Date Reported: 3/15/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 74-05

**Project:** Buena Vista Dairy 2

**Collection Date:** 2/23/2022 1:18:00 PM

**Lab ID:** 2202B85-002

**Matrix:** AQUEOUS

**Received Date:** 2/24/2022 2:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	660	50	*	mg/L	100	2/24/2022 9:09:14 PM	R86087
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/24/2022 8:56:22 PM	R86087
Nitrogen, Nitrate (As N)	13	1.0	*	mg/L	10	2/24/2022 8:56:22 PM	R86087
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2190	20.0	*	mg/L	1	3/4/2022 3:46:00 PM	65898
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/2/2022 10:33:00 AM	65856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202B85

15-Mar-22

Client: EA Engineering Alb

Project: Buena Vista Dairy 2

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86087</b>	RunNo: <b>86087</b>								
Prep Date:	Analysis Date: <b>2/24/2022</b>	SeqNo: <b>3033269</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride ND 0.50

Nitrogen, Nitrite (As N) ND 0.10

Nitrogen, Nitrate (As N) ND 0.10

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86087</b>	RunNo: <b>86087</b>								
Prep Date:	Analysis Date: <b>2/24/2022</b>	SeqNo: <b>3033270</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride 4.8 0.50 5.000 0 96.9 90 110

Nitrogen, Nitrite (As N) 1.0 0.10 1.000 0 101 90 110

Nitrogen, Nitrate (As N) 2.6 0.10 2.500 0 104 90 110

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202B85

15-Mar-22

Client: EA Engineering Alb

Project: Buena Vista Dairy 2

Sample ID: <b>MB-65898</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65898</b>	RunNo: <b>86261</b>								
Prep Date: <b>3/2/2022</b>	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3041040</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65898</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65898</b>	RunNo: <b>86261</b>								
Prep Date: <b>3/2/2022</b>	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3041041</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202B85

15-Mar-22

**Client:** EA Engineering Alb

**Project:** Buena Vista Dairy 2

Sample ID: <b>MB-65856</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65856</b>	RunNo: <b>86189</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3037862</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65856</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65856</b>	RunNo: <b>86189</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3037863</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0	105	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2202B85

RcptNo: 1

Received By: Juan Rojas 2/24/2022 2:20:00 PM *Juan Rojas*

Completed By: Tracy Casarrubias 2/24/2022 2:42:47 PM

Reviewed By: *SCA 2/24/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 2  
 (2 or >12 unless noted)  
 Adjusted? NO  
 Checked by: *SCA 2-24-22*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good	Not Present			





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 15, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Big Sky Dairy

OrderNo.: 2202B88

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/24/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202B88

Date Reported: 3/15/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 833-06

**Project:** Big Sky Dairy

**Collection Date:** 2/23/2022 2:45:00 PM

**Lab ID:** 2202B88-001

**Matrix:** AQUEOUS

**Received Date:** 2/24/2022 2:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	880	50	*	mg/L	100	2/24/2022 9:34:58 PM	R86087
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/24/2022 9:22:06 PM	R86087
Nitrogen, Nitrate (As N)	14	1.0	*	mg/L	10	2/24/2022 9:22:06 PM	R86087
Sulfate	460	50	*	mg/L	100	2/24/2022 9:34:58 PM	R86087
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2560	20.0	*	mg/L	1	3/4/2022 3:46:00 PM	65898
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/2/2022 10:33:00 AM	65856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202B88

15-Mar-22

**Client:** EA Engineering  
**Project:** Big Sky Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86087</b>	RunNo: <b>86087</b>								
Prep Date:	Analysis Date: <b>2/24/2022</b>	SeqNo: <b>3033269</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86087</b>	RunNo: <b>86087</b>								
Prep Date:	Analysis Date: <b>2/24/2022</b>	SeqNo: <b>3033270</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.9	90	110			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	101	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	104	90	110			
Sulfate	10	0.50	10.00	0	104	90	110			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202B88

15-Mar-22

Client: EA Engineering

Project: Big Sky Dairy

Sample ID: <b>MB-65898</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65898</b>	RunNo: <b>86261</b>								
Prep Date: <b>3/2/2022</b>	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3041040</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65898</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65898</b>	RunNo: <b>86261</b>								
Prep Date: <b>3/2/2022</b>	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3041041</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202B88

15-Mar-22

**Client:** EA Engineering

**Project:** Big Sky Dairy

Sample ID: <b>MB-65856</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65856</b>	RunNo: <b>86189</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3037862</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65856</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65856</b>	RunNo: <b>86189</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3037863</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0	105	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2202B88

RcptNo: 1

Received By: Juan Rojas

2/24/2022 2:20:00 PM

*Juan Rojas*

Completed By: Tracy Casarrubias

2/24/2022 2:47:35 PM

Reviewed By: *SCC 2/24/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 1  
 (2 or >12 unless noted)

Adjusted? NO

Checked by: *JSC 2-24-22*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_

By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good	Not Present			





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 10, 2022

Gina Mullen

EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Big Sky Dairy

OrderNo.: 2202C67

Dear Gina Mullen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/25/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202C67

Date Reported: 3/10/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 833-04

**Project:** Big Sky Dairy

**Collection Date:** 2/24/2022 11:35:00 AM

**Lab ID:** 2202C67-001

**Matrix:** GROUNDWA

**Received Date:** 2/25/2022 1:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	890	50	*	mg/L	100	3/8/2022 8:52:00 PM	A86345
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/25/2022 10:28:03 PM	R86102
Nitrogen, Nitrate (As N)	29	1.0	*	mg/L	10	2/25/2022 10:28:03 PM	R86102
Sulfate	470	50	*	mg/L	100	2/25/2022 10:40:24 PM	R86102
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2860	20.0	*	mg/L	1	3/7/2022 4:14:00 PM	65925
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/3/2022 1:51:00 PM	65897

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202C67

Date Reported: 3/10/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 833-02

**Project:** Big Sky Dairy

**Collection Date:** 2/24/2022 2:10:00 PM

**Lab ID:** 2202C67-002

**Matrix:** GROUNDWA

**Received Date:** 2/25/2022 1:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	1200	50	*	mg/L	100	3/8/2022 9:04:51 PM	A86345
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/25/2022 11:42:07 PM	R86102
Nitrogen, Nitrate (As N)	53	1.0	*	mg/L	10	2/25/2022 11:42:07 PM	R86102
Sulfate	520	50	*	mg/L	100	2/25/2022 11:54:27 PM	R86102
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3580	20.0	*	mg/L	1	3/7/2022 4:14:00 PM	65925
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/3/2022 1:51:00 PM	65897

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202C67

10-Mar-22

**Client:** EA Engineering

**Project:** Big Sky Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86102</b>	RunNo: <b>86102</b>								
Prep Date:	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3035395</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86102</b>	RunNo: <b>86102</b>								
Prep Date:	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3035396</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	0.95	0.10	1.000	0	95.2	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.0	90	110			
Sulfate	9.0	0.50	10.00	0	90.1	90	110			

Sample ID: <b>2202C67-001AMS</b>	SampType: <b>ms</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>833-04</b>	Batch ID: <b>R86102</b>	RunNo: <b>86102</b>								
Prep Date:	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3035423</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	8.8	1.0	10.00	0	88.2	83.4	105			
Nitrogen, Nitrate (As N)	54	1.0	25.00	29.02	102	93.5	110			

Sample ID: <b>2202C67-001AMSD</b>	SampType: <b>msd</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>833-04</b>	Batch ID: <b>R86102</b>	RunNo: <b>86102</b>								
Prep Date:	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3035424</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	8.9	1.0	10.00	0	88.7	83.4	105	0.554	20	
Nitrogen, Nitrate (As N)	55	1.0	25.00	29.02	102	93.5	110	0.136	20	

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A86345</b>	RunNo: <b>86345</b>								
Prep Date:	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3045318</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	0.50								
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### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202C67

10-Mar-22

**Client:** EA Engineering

**Project:** Big Sky Dairy

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A86345</b>	RunNo: <b>86345</b>								
Prep Date:	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3045319</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.0	0.50	5.000	0	101	90	110			

## Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202C67

10-Mar-22

**Client:** EA Engineering  
**Project:** Big Sky Dairy

Sample ID: <b>MB-65925</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65925</b>	RunNo: <b>86287</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/7/2022</b>	SeqNo: <b>3042311</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65925</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65925</b>	RunNo: <b>86287</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/7/2022</b>	SeqNo: <b>3042312</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Sample ID: <b>2202C67-002ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>833-02</b>	Batch ID: <b>65925</b>	RunNo: <b>86287</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/7/2022</b>	SeqNo: <b>3042322</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	3620	20.0						1.03	10	*

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202C67

10-Mar-22

**Client:** EA Engineering  
**Project:** Big Sky Dairy

Sample ID: <b>MB-65897</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65897</b>	RunNo: <b>86230</b>								
Prep Date: <b>3/2/2022</b>	Analysis Date: <b>3/3/2022</b>	SeqNo: <b>3039298</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65897</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65897</b>	RunNo: <b>86230</b>								
Prep Date: <b>3/2/2022</b>	Analysis Date: <b>3/3/2022</b>	SeqNo: <b>3039299</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.8	1.0	10.00	0	98.0	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2202C67

RcptNo: 1

Received By: Cheyenne Cason

2/25/2022 1:15:00 PM

*Cason*

Completed By: Isaiah Ortiz

2/25/2022 1:49:52 PM

*Ortiz*

Reviewed By: *OC*

*2/25/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 2  
 (<2 or >12 unless noted)

Adjusted? No

Checked by: isa 2/25/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Not Present			





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

March 31, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX

RE: Dona Ana Dairies

OrderNo.: 2203A09

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/18/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203A09

Date Reported: 3/31/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-24

**Project:** Dona Ana Dairies

**Collection Date:** 3/17/2022 11:25:00 AM

**Lab ID:** 2203A09-001

**Matrix:** GROUNDWA

**Received Date:** 3/18/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	890	50	*	mg/L	100	3/18/2022 2:50:37 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/18/2022 2:13:35 PM
Nitrogen, Nitrate (As N)	5.5	1.0		mg/L	10	3/18/2022 2:13:35 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2620	20.0	*	mg/L	1	3/27/2022 6:34:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/29/2022 1:38:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203A09

Date Reported: 3/31/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-19

**Project:** Dona Ana Dairies

**Collection Date:** 3/17/2022 12:40:00 PM

**Lab ID:** 2203A09-002

**Matrix:** GROUNDWA

**Received Date:** 3/18/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	980	50	*	mg/L	100	3/18/2022 3:15:19 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/18/2022 3:02:58 PM
Nitrogen, Nitrate (As N)	27	1.0	*	mg/L	10	3/18/2022 3:02:58 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2960	20.0	*	mg/L	1	3/27/2022 6:34:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/29/2022 1:38:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank  
 E Estimated value  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203A09

Date Reported: 3/31/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-17

**Project:** Dona Ana Dairies

**Collection Date:** 3/17/2022 2:47:00 PM

**Lab ID:** 2203A09-003

**Matrix:** GROUNDWA

**Received Date:** 3/18/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	170	5.0		mg/L	10	3/18/2022 3:52:22 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/18/2022 3:52:22 PM
Nitrogen, Nitrate (As N)	2.7	1.0		mg/L	10	3/18/2022 3:52:22 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	985	100	*D	mg/L	1	3/27/2022 6:34:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/29/2022 1:38:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203A09

Date Reported: 3/31/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-05

**Project:** Dona Ana Dairies

**Collection Date:** 3/17/2022 3:35:00 PM

**Lab ID:** 2203A09-004

**Matrix:** GROUNDWA

**Received Date:** 3/18/2022 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	310	50	*	mg/L	100	3/18/2022 4:29:24 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/18/2022 4:17:03 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/18/2022 4:17:03 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	1840	200	*D	mg/L	1	3/27/2022 6:34:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	18	10	D	mg/L	1	3/29/2022 1:38:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203A09

31-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86577</b>	RunNo: <b>86577</b>								
Prep Date:	Analysis Date: <b>3/18/2022</b>	SeqNo: <b>3056538</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86577</b>	RunNo: <b>86577</b>								
Prep Date:	Analysis Date: <b>3/18/2022</b>	SeqNo: <b>3056539</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	4.7	0.50	5.000	0	93.2	90	110			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	96.2	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.6	90	110			

Sample ID: <b>2203A09-001AMS</b>	SampType: <b>ms</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>DAD-24</b>	Batch ID: <b>R86577</b>	RunNo: <b>86577</b>								
Prep Date:	Analysis Date: <b>3/18/2022</b>	SeqNo: <b>3056553</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	8.6	1.0	10.00	0	86.1	83.4	105			
Nitrogen, Nitrate (As N)	30	1.0	25.00	5.480	98.9	93.5	110			

Sample ID: <b>2203A09-001AMSD</b>	SampType: <b>msd</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>DAD-24</b>	Batch ID: <b>R86577</b>	RunNo: <b>86577</b>								
Prep Date:	Analysis Date: <b>3/18/2022</b>	SeqNo: <b>3056554</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	8.6	1.0	10.00	0	85.6	83.4	105	0.495	20	
Nitrogen, Nitrate (As N)	30	1.0	25.00	5.480	98.0	93.5	110	0.747	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203A09

31-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66376</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66376</b>	RunNo: <b>86764</b>								
Prep Date: <b>3/24/2022</b>	Analysis Date: <b>3/27/2022</b>	SeqNo: <b>3063824</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66376</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66376</b>	RunNo: <b>86764</b>								
Prep Date: <b>3/24/2022</b>	Analysis Date: <b>3/27/2022</b>	SeqNo: <b>3063825</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Sample ID: <b>2203A09-002ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>DAD-19</b>	Batch ID: <b>66376</b>	RunNo: <b>86764</b>								
Prep Date: <b>3/24/2022</b>	Analysis Date: <b>3/27/2022</b>	SeqNo: <b>3063833</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2940	20.0						0.441	10	*

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203A09

31-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66427</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66427</b>	RunNo: <b>86817</b>								
Prep Date: <b>3/28/2022</b>	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3066025</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66427</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66427</b>	RunNo: <b>86817</b>								
Prep Date: <b>3/28/2022</b>	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3066026</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0	101	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2203A09

RcptNo: 1

Received By: Juan Rojas 3/18/2022 9:15:00 AM

Completed By: Sean Livingston 3/18/2022 9:43:40 AM

Reviewed By: JD 3/18/22

*Juan Rojas*  
*Sean Livingston*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA   
 4. Were all samples received at a temperature of >0° C to 6.0° C Yes  No  NA   
 5. Sample(s) in proper container(s)? Yes  No   
 6. Sufficient sample volume for indicated test(s)? Yes  No   
 7. Are samples (except VOA and ONG) properly preserved? Yes  No   
 8. Was preservative added to bottles? Yes  No  NA   
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA   
 10. Were any sample containers received broken? Yes  No   
 11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 12. Are matrices correctly identified on Chain of Custody? Yes  No   
 13. Is it clear what analyses were requested? Yes  No   
 14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 4  
 (<2 or >12 unless noted)  
 Adjusted? NO  
 Checked by: MPA 3/18/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

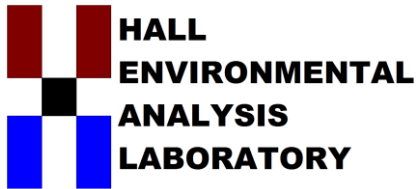
Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good				





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 05, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Dona Ana Dairies

OrderNo.: 2203A96

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/21/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EA Engineering  
**Project:** Dona Ana Dairies  
**Lab ID:** 2203A96-001

**Client Sample ID:** DAD-18  
**Collection Date:** 3/18/2022 10:26:00 AM  
**Matrix:** GROUNDWA **Received Date:** 3/21/2022 9:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	590	50	*	mg/L	100	3/22/2022 10:22:45 PM
Nitrate+Nitrite as N	6.3	1.0		mg/L	5	3/23/2022 12:50:53 AM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2530	20.0	*	mg/L	1	3/28/2022 11:15:00 AM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	1.1	1.0		mg/L	1	3/31/2022 9:47:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EA Engineering  
**Project:** Dona Ana Dairies  
**Lab ID:** 2203A96-002

**Client Sample ID:** DAD-08  
**Collection Date:** 3/18/2022 11:48:00 AM  
**Matrix:** GROUNDWA **Received Date:** 3/21/2022 9:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	1600	50	*	mg/L	100	3/22/2022 10:47:26 PM
Nitrate+Nitrite as N	44	2.0	*	mg/L	10	3/24/2022 5:47:05 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	4520	100	*D	mg/L	1	3/28/2022 11:15:00 AM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/31/2022 9:47:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203A96

Date Reported: 4/5/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-25

**Project:** Dona Ana Dairies

**Collection Date:** 3/18/2022 3:47:00 PM

**Lab ID:** 2203A96-003

**Matrix:** GROUNDWA

**Received Date:** 3/21/2022 9:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	120	5.0		mg/L	10	3/22/2022 10:59:47 PM
Nitrate+Nitrite as N	3.4	1.0		mg/L	5	3/23/2022 1:15:34 AM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	840	200	*D	mg/L	1	3/28/2022 11:15:00 AM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/31/2022 9:47:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203A96

05-Apr-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86687</b>	RunNo: <b>86687</b>								
Prep Date:	Analysis Date: <b>3/22/2022</b>	SeqNo: <b>3060822</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86687</b>	RunNo: <b>86687</b>								
Prep Date:	Analysis Date: <b>3/22/2022</b>	SeqNo: <b>3060824</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.3	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.9	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86750</b>	RunNo: <b>86750</b>								
Prep Date:	Analysis Date: <b>3/24/2022</b>	SeqNo: <b>3063328</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86750</b>	RunNo: <b>86750</b>								
Prep Date:	Analysis Date: <b>3/24/2022</b>	SeqNo: <b>3063329</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203A96

05-Apr-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66400</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66400</b>	RunNo: <b>86776</b>								
Prep Date: <b>3/25/2022</b>	Analysis Date: <b>3/28/2022</b>	SeqNo: <b>3064315</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66400</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66400</b>	RunNo: <b>86776</b>								
Prep Date: <b>3/25/2022</b>	Analysis Date: <b>3/28/2022</b>	SeqNo: <b>3064316</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203A96

05-Apr-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66495</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66495</b>	RunNo: <b>86877</b>								
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>3/31/2022</b>	SeqNo: <b>3069243</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66495</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66495</b>	RunNo: <b>86877</b>								
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>3/31/2022</b>	SeqNo: <b>3069244</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

Sample ID: <b>2203A96-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>DAD-18</b>	Batch ID: <b>66495</b>	RunNo: <b>86877</b>								
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>3/31/2022</b>	SeqNo: <b>3069247</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.7	1.0	10.00	1.120	85.4	75	125			

Sample ID: <b>2203A96-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>DAD-18</b>	Batch ID: <b>66495</b>	RunNo: <b>86877</b>								
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>3/31/2022</b>	SeqNo: <b>3069248</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	1.120	89.6	75	125	4.26	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2203A96

RcptNo: 1

Received By: Cheyenne Cason

3/21/2022 9:37:00 AM

*CC*

Completed By: Desiree Dominguez

3/21/2022 9:49:21 AM

*DD*

Reviewed By: *A 3-21-22*

Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

Log In

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C? Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels?  
 (Note discrepancies on chain of custody) Yes  No
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met?  
 (If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH:

*3*

<2 or >12 unless noted)

Adjusted? *NO*

Checked by: *JN 3/21/22*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via:  eMail  Phone  Fax  In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	6.0	Good				

# Chain-of-Custody Record

Client:

EA Engineering, Science, and Technology  
Mailing Address:

320 Gold Ave SW Suite

Phone #: 505-715-4279

email or Fax#: rmullen@eaest.com

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance

NELAC  Other

EDD (Type)

Turn-Around Time:

Standard  Rush

Project:

Dona Ana Dairies (DAD'S)

Project #:

Project Manager:

Gina Mullen

Sampler: Angel Nieto Rivera

On Ice:  Yes  No

# of Coolers: (

Cooler Temp (including CF): 6.0 - 0 = 6.0

Container Type and #

Preservative Type

HEAL No.  
2203A96

2

-001

2

-002

2

-003

Date Time Matrix Sample Name

3-18 10:26 Gw DAD-18

3-18 11:48 Gw DAD-08

3-18 15:47 Gw DAD-25

Date: 3-18 17:25

Relinquished by: *Paul W.P.*

Date: 3-18 17:25

Relinquished by: *Paul W.P.*

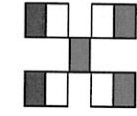
Received by: *Chae Feden* Date: 3/21/04 Time: 09:37

Received by: *Chae Feden* Date: 3/21/04 Time: 09:37

Remarks:

## Analysis Request

Nitrate/Nitrites EPA Method 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
TDS SM 2540 C MOD	X
Sulfate EPA 300	
Phosphorus EPA 6010B	
Total Sulfur	



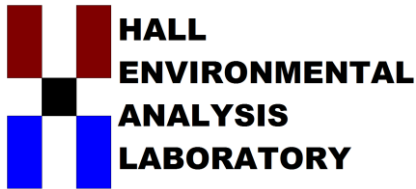
# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 03, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Dona Ana Dairies

OrderNo.: 2203C05

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/23/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203C05

Date Reported: 4/3/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-07

**Project:** Dona Ana Dairies

**Collection Date:** 3/22/2022 10:50:00 AM

**Lab ID:** 2203C05-001

**Matrix:** GROUNDWA

**Received Date:** 3/23/2022 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	480	50	*	mg/L	100	3/23/2022 2:45:11 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/23/2022 2:32:43 PM
Nitrogen, Nitrate (As N)	18	1.0	*	mg/L	10	3/23/2022 2:32:43 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2160	40.0	*D	mg/L	1	3/31/2022 1:21:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/31/2022 1:29:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203C05

Date Reported: 4/3/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-21

**Project:** Dona Ana Dairies

**Collection Date:** 3/22/2022 1:05:00 PM

**Lab ID:** 2203C05-002

**Matrix:** GROUNDWA

**Received Date:** 3/23/2022 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	900	50	*	mg/L	100	3/23/2022 3:36:41 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/23/2022 3:23:49 PM
Nitrogen, Nitrate (As N)	41	1.0	*	mg/L	10	3/23/2022 3:23:49 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2840	40.0	*D	mg/L	1	3/31/2022 1:21:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/31/2022 1:29:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank  
 E Estimated value  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203C05

Date Reported: 4/3/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-09

**Project:** Dona Ana Dairies

**Collection Date:** 3/22/2022 2:35:00 PM

**Lab ID:** 2203C05-003

**Matrix:** GROUNDWA

**Received Date:** 3/23/2022 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	510	50	*	mg/L	100	3/23/2022 4:02:25 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/23/2022 3:49:33 PM
Nitrogen, Nitrate (As N)	32	1.0	*	mg/L	10	3/23/2022 3:49:33 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	1860	40.0	*D	mg/L	1	3/31/2022 1:21:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/31/2022 1:29:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C05

03-Apr-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86723</b>	RunNo: <b>86723</b>								
Prep Date:	Analysis Date: <b>3/23/2022</b>	SeqNo: <b>3061808</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86723</b>	RunNo: <b>86723</b>								
Prep Date:	Analysis Date: <b>3/23/2022</b>	SeqNo: <b>3061809</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.6	90	110			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	99.5	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	103	90	110			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C05

03-Apr-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66464</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66464</b>	RunNo: <b>86882</b>								
Prep Date: <b>3/29/2022</b>	Analysis Date: <b>3/31/2022</b>	SeqNo: <b>3069504</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66464</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66464</b>	RunNo: <b>86882</b>								
Prep Date: <b>3/29/2022</b>	Analysis Date: <b>3/31/2022</b>	SeqNo: <b>3069505</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C05

03-Apr-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66535</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66535</b>	RunNo: <b>86888</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>3/31/2022</b>	SeqNo: <b>3069720</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66535</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66535</b>	RunNo: <b>86888</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>3/31/2022</b>	SeqNo: <b>3069721</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2203C05

RcptNo: 1

Received By: Kasandra Payan 3/23/2022 9:30:00 AM *KP*

Completed By: Desiree Dominguez 3/23/2022 10:45:46 AM *DD*

Reviewed By: *IO* 3/23/22

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
*samples were not frozen*
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 3 (or >12 unless noted)  
 Adjusted? no  
 Checked by: CML 3/23/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

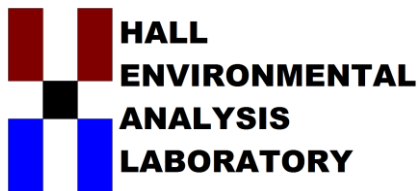
16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-2.0	Good				







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 14, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Dona Ana Dairies

OrderNo.: 2203C96

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/24/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203C96

Date Reported: 4/14/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-15

**Project:** Dona Ana Dairies

**Collection Date:** 3/23/2022 11:38:00 AM

**Lab ID:** 2203C96-001

**Matrix:** AQUEOUS

**Received Date:** 3/24/2022 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	640	50	*	mg/L	100	4/5/2022 11:43:47 AM
Nitrate+Nitrite as N	22	1.0	*	mg/L	5	4/5/2022 5:18:00 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2590	20.0	*	mg/L	1	4/1/2022 12:15:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	4/4/2022 10:21:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203C96

Date Reported: 4/14/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-22

**Project:** Dona Ana Dairies

**Collection Date:** 3/23/2022 12:31:00 PM

**Lab ID:** 2203C96-002

**Matrix:** AQUEOUS

**Received Date:** 3/24/2022 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	780	50	*	mg/L	100	4/5/2022 11:56:40 AM
Nitrate+Nitrite as N	16	1.0	*	mg/L	5	4/5/2022 5:30:52 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2440	20.0	*	mg/L	1	4/1/2022 12:15:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	4/4/2022 10:21:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203C96

Date Reported: 4/14/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-26

**Project:** Dona Ana Dairies

**Collection Date:** 3/23/2022 1:57:00 PM

**Lab ID:** 2203C96-003

**Matrix:** AQUEOUS

**Received Date:** 3/24/2022 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	560	50	*	mg/L	100	3/24/2022 6:03:42 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/24/2022 5:51:22 PM
Nitrogen, Nitrate (As N)	22	1.0	*	mg/L	10	3/24/2022 5:51:22 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	1790	40.0	*D	mg/L	1	4/1/2022 12:15:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	4/4/2022 10:21:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203C96

Date Reported: 4/14/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-20

**Project:** Dona Ana Dairies

**Collection Date:** 3/23/2022 3:00:00 PM

**Lab ID:** 2203C96-004

**Matrix:** AQUEOUS

**Received Date:** 3/24/2022 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	730	50	*	mg/L	100	3/24/2022 6:28:25 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/24/2022 6:16:04 PM
Nitrogen, Nitrate (As N)	21	1.0	*	mg/L	10	3/24/2022 6:16:04 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2300	20.0	*	mg/L	1	4/1/2022 12:15:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	4/4/2022 10:21:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203C96

Date Reported: 4/14/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-10

**Project:** Dona Ana Dairies

**Collection Date:** 3/23/2022 4:20:00 PM

**Lab ID:** 2203C96-005

**Matrix:** AQUEOUS

**Received Date:** 3/24/2022 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	390	50	*	mg/L	100	3/24/2022 6:53:07 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/24/2022 6:40:46 PM
Nitrogen, Nitrate (As N)	1.4	1.0		mg/L	10	3/24/2022 6:40:46 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	1660	200	*D	mg/L	1	4/1/2022 12:15:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/4/2022 10:21:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C96

14-Apr-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>PBW</b>	Batch ID: <b>R86748</b>	RunNo: <b>86748</b>
Prep Date:	Analysis Date: <b>3/24/2022</b>	SeqNo: <b>3063016</b> Units: <b>mg/L</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>LCSW</b>	Batch ID: <b>R86748</b>	RunNo: <b>86748</b>
Prep Date:	Analysis Date: <b>3/24/2022</b>	SeqNo: <b>3063017</b> Units: <b>mg/L</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.6	90	110			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	96.5	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.5	90	110			

Sample ID: <b>2203C96-001AMS</b>	SampType: <b>ms</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>DAD-15</b>	Batch ID: <b>R86748</b>	RunNo: <b>86748</b>
Prep Date:	Analysis Date: <b>3/24/2022</b>	SeqNo: <b>3063043</b> Units: <b>mg/L</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	47	1.0	25.00	21.27	102	93.5	110			

Sample ID: <b>2203C96-001AMSD</b>	SampType: <b>msd</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>DAD-15</b>	Batch ID: <b>R86748</b>	RunNo: <b>86748</b>
Prep Date:	Analysis Date: <b>3/24/2022</b>	SeqNo: <b>3063044</b> Units: <b>mg/L</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	47	1.0	25.00	21.27	104	93.5	110	0.805	20	

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>PBW</b>	Batch ID: <b>R87050</b>	RunNo: <b>87050</b>
Prep Date:	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3076233</b> Units: <b>mg/L</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>LCSW</b>	Batch ID: <b>R87050</b>	RunNo: <b>87050</b>
Prep Date:	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3076241</b> Units: <b>mg/L</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-----	-----------	-------------	------	----------	-----------	------	----------	------

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C96

14-Apr-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R87050</b>	RunNo: <b>87050</b>								
Prep Date:	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3076241</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.1	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.5	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C96

14-Apr-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66515</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66515</b>	RunNo: <b>86908</b>								
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3070371</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66515</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66515</b>	RunNo: <b>86908</b>								
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3070372</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Sample ID: <b>2203C96-004ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>DAD-20</b>	Batch ID: <b>66515</b>	RunNo: <b>86908</b>								
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3070392</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2330	20.0						1.17	10	*

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C96

14-Apr-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66565</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66565</b>	RunNo: <b>86963</b>								
Prep Date: <b>4/1/2022</b>	Analysis Date: <b>4/4/2022</b>	SeqNo: <b>3072942</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66565</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66565</b>	RunNo: <b>86963</b>								
Prep Date: <b>4/1/2022</b>	Analysis Date: <b>4/4/2022</b>	SeqNo: <b>3072943</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Estimated value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix interference	

**Sample Log-In Check List**

Client Name: **EA Engineering**

Work Order Number: **2203C96**

RcptNo: **1**

Received By: **Sean Livingston** 3/24/2022 9:10:00 AM

Completed By: **Desiree Dominguez** 3/24/2022 10:30:27 AM

Reviewed By: *DL 3-24-22*

*Sean Livingston*  
*DL*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0° C Yes  No  NA
5. Sample(s) in proper container(s)? Samples not frozen. Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: (5)  
 (<2 or >12 unless noted)  
 Adjusted? no  
 Checked by: One 3/24/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

Samples not frozen. SGL 3/24/2022

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-1.9	Good				

# Chain-of-Custody Record

Client: \_\_\_\_\_  
 EA Engineering, Science, and Technology  
 Mailing Address: \_\_\_\_\_  
 320 Gold Ave SW Suite \_\_\_\_\_  
 Phone #: 505-715-4279  
 email or Fax#: rmullen@eaest.com

QA/QC Package:  Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  NELAC  Other  
 EDD (Type) \_\_\_\_\_

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3-23	11:38	Gw	DAD-15	2		2203C96
3-23	12:31	Gw	DAD-22	2		-001
3-23	13:57	Gw	DAD-26	2		-002
3-23	15:00	Gw	DAD-20	2		-003
3-23	16:20	Gw	DAD-10	2		-004
						-005

Date: 3-23 Time: 17:40 Relinquished by: *Paul W*  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Relinquished by: \_\_\_\_\_

Turn-Around Time:  Standard  Rush  
 Project: \_\_\_\_\_  
 Dona Ana Dairies (DAD'S)  
 Project #: \_\_\_\_\_

Project Manager: Gina Mullen  
 Sampler: Angel Nieto Rivera  
 On Ice:  Yes  No  
 # of Coolers: \_\_\_\_\_  
 Cooler Temp (including CF): -1.8 -0.1 = -1.9 °C

Nitrate/Nitrites EPA Method 300	TKN SM 4500 NORG C	Chloride EPA 300	TDS SM 2540 C MOD	Sulfate EPA 300	Phosphorus EPA 6010B	Total Sulfur
X	X	X	X			
X	X	X	X			
X	X	X	X			
X	X	X	X			
X	X	X	X			

Received by: SA Date: 3/24/22 Time: 9:10  
 Received by: SA Date: 3/24/22 Time: \_\_\_\_\_

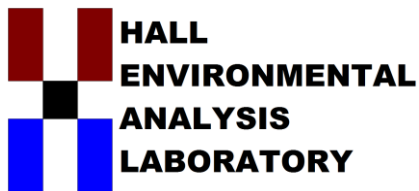


**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

Remarks: *Samples not frozen see 3/24/22*

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 07, 2022

Regina Mullen

EA Engineering

320 Gold Ave SW Suite 1210

Albuquerque, NM 87102

TEL:

FAX:

RE: Del Oro Dairy

OrderNo.: 2203D86

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/25/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203D86

Date Reported: 4/7/2022

CLIENT: EA Engineering

Client Sample ID: 692- Lagoon

Project: Del Oro Dairy

Collection Date: 3/24/2022 3:31:00 PM

Lab ID: 2203D86-001

Matrix: AQUEOUS

Received Date: 3/25/2022 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	3200	250	*	mg/L	500	3/29/2022 1:06:29 PM	R86833
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/25/2022 6:03:01 PM	R86759
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/25/2022 6:03:01 PM	R86759
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	13600	2000	*D	mg/L	1	4/5/2022 8:59:00 AM	66556
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	1000	10	D	mg/L	1	4/5/2022 10:18:00 AM	66594
<b>EPA METHOD 200.7: TOTAL METALS</b>							Analyst: <b>ELS</b>
Sulfur	190	5.0		mg/L	1	3/30/2022 9:50:20 AM	66466

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203D86

07-Apr-22

Client: EA Engineering

Project: Del Oro Dairy

Sample ID: <b>MB-66466</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 200.7: Total Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66466</b>	RunNo: <b>86863</b>								
Prep Date: <b>3/29/2022</b>	Analysis Date: <b>3/30/2022</b>	SeqNo: <b>3068163</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfur	ND	1.0								

Sample ID: <b>LL LCS-S-66466</b>	SampType: <b>LCSLL</b>	TestCode: <b>EPA Method 200.7: Total Metals</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>66466</b>	RunNo: <b>86863</b>								
Prep Date: <b>3/29/2022</b>	Analysis Date: <b>3/30/2022</b>	SeqNo: <b>3068169</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfur	ND	1.0	1.000	0	91.9	50	150			

Sample ID: <b>LCS-S-66466</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 200.7: Total Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66466</b>	RunNo: <b>86863</b>								
Prep Date: <b>3/29/2022</b>	Analysis Date: <b>3/30/2022</b>	SeqNo: <b>3068171</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfur	47	1.0	50.00	0	94.0	85	115			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Estimated value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix interference	



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203D86

07-Apr-22

Client: EA Engineering

Project: Del Oro Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86759</b>	RunNo: <b>86759</b>								
Prep Date:	Analysis Date: <b>3/25/2022</b>	SeqNo: <b>3063633</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86759</b>	RunNo: <b>86759</b>								
Prep Date:	Analysis Date: <b>3/25/2022</b>	SeqNo: <b>3063634</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.95	0.10	1.000	0	95.2	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.8	90	110			

Sample ID: <b>MB</b>	SampType: <b>Mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86833</b>	RunNo: <b>86833</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3066895</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86833</b>	RunNo: <b>86833</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3066896</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.2	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203D86

07-Apr-22

Client: EA Engineering

Project: Del Oro Dairy

Sample ID: <b>MB-66556</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073515</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66556</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073516</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	101	80	120			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Estimated value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix interference	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203D86

07-Apr-22

**Client:** EA Engineering

**Project:** Del Oro Dairy

Sample ID: <b>MB-66594</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66594</b>	RunNo: <b>86995</b>								
Prep Date: <b>4/4/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3074006</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66594</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66594</b>	RunNo: <b>86995</b>								
Prep Date: <b>4/4/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3074007</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0	102	80	120			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2203D86

RcptNo: 1

Received By: Cheyenne Cason 3/25/2022 11:00:00 AM

Completed By: Desiree Dominguez 3/25/2022 11:16:35 AM

Reviewed By: TMC 3/25/22

*Handwritten signatures and initials*

Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? FedEx

Log In

3. Was an attempt made to cool the samples? Yes  No  NA   
 4. Were all samples received at a temperature of >0° C to 6.0° C? Yes  No  NA   
 5. Sample(s) in proper container(s)? Yes  No   
 6. Sufficient sample volume for indicated test(s)? Yes  No   
 7. Are samples (except VOA and ONG) properly preserved? Yes  No   
 8. Was preservative added to bottles? Yes  No  NA   
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  HNO3 NA   
 10. Were any sample containers received broken? Yes  No   
 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No   
 12. Are matrices correctly identified on Chain of Custody? Yes  No   
 13. Is it clear what analyses were requested? Yes  No   
 14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH: 2  
 Adjusted? yes  
 Checked by: KPA 3/25/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

For Sulfur analysis poured off ~ 150mL. From provided unpreserved volume, then added ~ 0.5mL HNO3 to sample 001B for pH <2.

Added 1.0mL of H2SO4 to sample 001A for

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good				

pH <2 - KPA 3/25/22

# Chain-of-Custody Record

Turn-Around Time: \_\_\_\_\_

Standard  Rush

Project: \_\_\_\_\_

Project #: Del Oro Dairy

Project #: \_\_\_\_\_

Project Manager: \_\_\_\_\_

Gina Mullen

Sampler: Angel Nieto Rivera

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 0.8 - 0 = 0.8

Container Type and # 2

Preservative Type \_\_\_\_\_

HEAL No. 2203D86

-001

Relinquished by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Via: \_\_\_\_\_

Date \_\_\_\_\_

Time \_\_\_\_\_

Received by: \_\_\_\_\_

Via: \_\_\_\_\_

Date \_\_\_\_\_

Time \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_

Remarks: \_\_\_\_\_



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

<input checked="" type="checkbox"/>	Nitrate/Nitrites EPA Method 300
<input checked="" type="checkbox"/>	TKN SM 4500 NORG C
<input checked="" type="checkbox"/>	Chloride EPA 300
<input checked="" type="checkbox"/>	TDS SM 2540 C MOD
	Sulfate EPA 300
	Phosphorus EPA 6010B
<input checked="" type="checkbox"/>	Total Sulfur

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 19, 2022

Regina Mullen

EA Engineering Alb  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Bright Star Dairy

OrderNo.: 2203E20

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/26/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203E20

Date Reported: 4/19/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** LRG-00953

**Project:** Bright Star Dairy

**Collection Date:** 3/25/2022 1:35:00 PM

**Lab ID:** 2203E20-001

**Matrix:** GROUNDWA

**Received Date:** 3/26/2022 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	930	50	*	mg/L	100	4/1/2022 12:31:14 PM	R86950
Nitrate+Nitrite as N	15	1.0	*	mg/L	5	4/2/2022 1:49:40 AM	A86950
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2720	20.0	*	mg/L	1	4/5/2022 10:41:00 AM	66573
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	4/6/2022 10:30:00 AM	66630

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E20

19-Apr-22

**Client:** EA Engineering Alb  
**Project:** Bright Star Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072411</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072412</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072449</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072450</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.1	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E20

19-Apr-22

**Client:** EA Engineering Alb  
**Project:** Bright Star Dairy

Sample ID: <b>MB-66573</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66573</b>	RunNo: <b>86992</b>								
Prep Date: <b>4/1/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073880</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66573</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66573</b>	RunNo: <b>86992</b>								
Prep Date: <b>4/1/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073881</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Sample ID: <b>2203E20-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LRG-00953</b>	Batch ID: <b>66573</b>	RunNo: <b>86992</b>								
Prep Date: <b>4/1/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073883</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2710	20.0						0.258	10	*

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E20

19-Apr-22

Client: EA Engineering Alb

Project: Bright Star Dairy

Sample ID: <b>MB-66630</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075974</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66630</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075975</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Client Name: EA Engineering

Work Order Number: 2203E20

RcptNo: 1

Received By: Desiree Dominguez 3/26/2022 11:20:00 AM

*DD*

Completed By: Desiree Dominguez 3/26/2022 12:22:25 PM

*DD*

Reviewed By: *SM 3/28/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH:

*1* (<2 or >12 unless noted)

Adjusted? *NO*

Checked by: *SM 3/28/22*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good				





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 19, 2022

Regina Mullen

EA Engineering Alb  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Buena Vista Dairy II

OrderNo.: 2203E21

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/26/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203E21

Date Reported: 4/19/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** LRG-01876

**Project:** Buena Vista Dairy II

**Collection Date:** 3/25/2022 2:30:00 PM

**Lab ID:** 2203E21-001

**Matrix:** GROUNDWA

**Received Date:** 3/26/2022 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	380	50	*	mg/L	100	4/1/2022 1:20:53 PM	R86950
Nitrate+Nitrite as N	2.4	1.0		mg/L	5	4/2/2022 2:02:04 AM	A86950
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1470	20.0	*	mg/L	1	4/5/2022 10:41:00 AM	66573
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/6/2022 10:30:00 AM	66630

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E21

19-Apr-22

**Client:** EA Engineering Alb  
**Project:** Buena Vista Dairy II

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072411</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072412</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072449</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072450</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.1	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E21

19-Apr-22

Client: EA Engineering Alb

Project: Buena Vista Dairy II

Sample ID: <b>MB-66573</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66573</b>	RunNo: <b>86992</b>								
Prep Date: <b>4/1/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073880</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66573</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66573</b>	RunNo: <b>86992</b>								
Prep Date: <b>4/1/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073881</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E21

19-Apr-22

**Client:** EA Engineering Alb  
**Project:** Buena Vista Dairy II

Sample ID: <b>MB-66630</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075974</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66630</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075975</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

Sample ID: <b>2203E21-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LRG-01876</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075985</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0.5600	96.6	75	125			

Sample ID: <b>2203E21-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LRG-01876</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075986</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0.5600	98.0	75	125	1.36	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2203E21

RcptNo: 1

Received By: Desiree Dominguez 3/26/2022 11:20:00 AM

Completed By: Desiree Dominguez 3/26/2022 12:25:53 PM

Reviewed By: *SRC 3/28/22*

*DD*  
*DD*

Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? FedEx

Log In

3. Was an attempt made to cool the samples? Yes  No  NA   
 4. Were all samples received at a temperature of >0° C to 6.0°C? Yes  No  NA   
 5. Sample(s) in proper container(s)? Yes  No   
 6. Sufficient sample volume for indicated test(s)? Yes  No   
 7. Are samples (except VOA and ONG) properly preserved? Yes  No   
 8. Was preservative added to bottles? Yes  No  NA   
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA   
 10. Were any sample containers received broken? Yes  No   
 11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 12. Are matrices correctly identified on Chain of Custody? Yes  No   
 13. Is it clear what analyses were requested? Yes  No   
 14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 1  
 (<2 or >12 unless noted)

Adjusted? NO

Checked by: *CME 3/28/22*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good				





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 08, 2022

Regina Mullen

EA Engineering

320 Gold Ave SW Suite 1210

Albuquerque, NM 87102

TEL:

FAX:

RE: Del Oro Dairy

OrderNo.: 2203E22

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/26/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203E22

Date Reported: 4/8/2022

**CLIENT:** EA Engineering

**Client Sample ID:** LRG-5820

**Project:** Del Oro Dairy

**Collection Date:** 3/25/2022 3:00:00 PM

**Lab ID:** 2203E22-001

**Matrix:** GROUNDWA

**Received Date:** 3/26/2022 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	380	50	*	mg/L	100	3/29/2022 10:09:32 PM	R86841
Nitrate+Nitrite as N	ND	1.0		mg/L	5	3/29/2022 10:22:24 PM	R86841
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1280	40.0	*D	mg/L	1	4/5/2022 8:59:00 AM	66556
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/6/2022 10:30:00 AM	66630

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E22

08-Apr-22

Client: EA Engineering

Project: Del Oro Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86841</b>	RunNo: <b>86841</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3067711</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86841</b>	RunNo: <b>86841</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3067712</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.2	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	100	90	110			

Sample ID: <b>LCS-D</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86841</b>	RunNo: <b>86841</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3067721</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.3	90	110			
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E22

08-Apr-22

Client: EA Engineering

Project: Del Oro Dairy

Sample ID: <b>MB-66556</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073515</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66556</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073516</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	101	80	120			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Estimated value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix interference	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E22

08-Apr-22

**Client:** EA Engineering

**Project:** Del Oro Dairy

Sample ID: <b>MB-66630</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075974</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66630</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075975</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



# Sample Log-In Check List

Client Name: EA Engineering

Work Order Number: 2203E22

RcptNo: 1

Received By: Desiree Dominguez 3/26/2022 11:20:00 AM *DD*

Completed By: Desiree Dominguez 3/26/2022 12:28:44 PM *DD*

Reviewed By: *SD 3/28/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 1  
 (<2 or >12 unless noted)

Adjusted? NO

Checked by: CMC 3/28/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good				





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 11, 2022

Regina Mullen

EA Engineering Alb  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX

RE: Dominguez Dairy I

OrderNo.: 2203E23

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/26/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203E23

Date Reported: 4/11/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** LRG-00591-S

**Project:** Dominguez Dairy I

**Collection Date:** 3/25/2022 1:50:00 PM

**Lab ID:** 2203E23-001

**Matrix:** GROUNDWA

**Received Date:** 3/26/2022 11:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1200	50	*	mg/L	100	4/1/2022 1:45:42 PM	R86950
Nitrate+Nitrite as N	30	1.0	*	mg/L	5	4/2/2022 2:14:29 AM	A86950
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3370	40.0	*D	mg/L	1	4/5/2022 8:59:00 AM	66556
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	4/6/2022 10:30:00 AM	66630

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203E23

Date Reported: 4/11/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** LRG-00591-S-2

**Project:** Dominguez Dairy I

**Collection Date:** 3/25/2022 2:00:00 PM

**Lab ID:** 2203E23-002

**Matrix:** GROUNDWA

**Received Date:** 3/26/2022 11:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	960	50	*	mg/L	100	4/1/2022 2:10:32 PM	R86950
Nitrate+Nitrite as N	19	1.0	*	mg/L	5	4/2/2022 2:26:54 AM	A86950
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2760	20.0	*	mg/L	1	4/5/2022 8:59:00 AM	66556
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	4/6/2022 10:30:00 AM	66630

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E23

11-Apr-22

**Client:** EA Engineering Alb  
**Project:** Dominguez Dairy I

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072411</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072412</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072449</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072450</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.1	90	110			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E23

11-Apr-22

**Client:** EA Engineering Alb  
**Project:** Dominguez Dairy I

Sample ID: <b>MB-66556</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073515</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66556</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073516</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	100	80	120			

Sample ID: <b>2203E23-002ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LRG-00591-S-2</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073534</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2740	20.0						0.437	10	*

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E23

11-Apr-22

**Client:** EA Engineering Alb  
**Project:** Dominguez Dairy I

Sample ID: <b>MB-66630</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075974</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66630</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075975</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |



**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2203E23

RcptNo: 1

Received By: Desiree Dominguez 3/26/2022 11:20:00 AM

*DD*

Completed By: Desiree Dominguez 3/26/2022 12:30:59 PM

*DD*

Reviewed By: *SCC 3/28/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C? Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels?  
 (Note discrepancies on chain of custody) Yes  No
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met?  
 (If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH: *(2)*  
 (\*2 or >12 unless noted)

Adjusted? *NO*

Checked by: *CMC 3/28/22*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good				





*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

June 01, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Big Sky Dairy

OrderNo.: 2203E24

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/26/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 11, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203E24

Date Reported: 6/1/2022

**CLIENT:** EA Engineering

**Client Sample ID:** LRG-4116

**Project:** Big Sky Dairy

**Collection Date:** 3/25/2022 1:00:00 PM

**Lab ID:** 2203E24-002

**Matrix:** GROUNDWA

**Received Date:** 3/26/2022 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	420	50	*	mg/L	100	4/1/2022 3:00:10 PM	R86950
Nitrate+Nitrite as N	ND	1.0		mg/L	5	4/2/2022 2:51:43 AM	A86950
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1530	20.0	*	mg/L	1	4/5/2022 8:59:00 AM	66556
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/6/2022 1:44:00 PM	66664

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E24

01-Jun-22

**Client:** EA Engineering  
**Project:** Big Sky Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072411</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072412</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072449</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86950</b>	RunNo: <b>86950</b>								
Prep Date:	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3072450</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.1	90	110			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E24

01-Jun-22

**Client:** EA Engineering

**Project:** Big Sky Dairy

Sample ID: <b>MB-66556</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073515</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66556</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073516</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	101	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E24

01-Jun-22

**Client:** EA Engineering  
**Project:** Big Sky Dairy

Sample ID: <b>MB-66664</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66664</b>	RunNo: <b>87043</b>								
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075994</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66664</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66664</b>	RunNo: <b>87043</b>								
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075995</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.8	1.0	10.00	0	98.0	80	120			

Sample ID: <b>2203E24-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LRG-4116</b>	Batch ID: <b>66664</b>	RunNo: <b>87043</b>								
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075998</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0	101	75	125			

Sample ID: <b>2203E24-002AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LRG-4116</b>	Batch ID: <b>66664</b>	RunNo: <b>87043</b>								
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075999</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0	102	75	125	1.38	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2203E24

RcptNo: 1

Received By: Desiree Dominguez 3/26/2022 11:20:00 AM

*DD*

Completed By: Desiree Dominguez 3/26/2022 12:34:01 PM

*DD*

Reviewed By: *SZC 3/28/22*

Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

Log In

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels?  
 (Note discrepancies on chain of custody) Yes  No
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met?  
 (If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH: (2)  
 (<2 or >12 unless noted)

Adjusted? no

Checked by: CMC 3/28/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

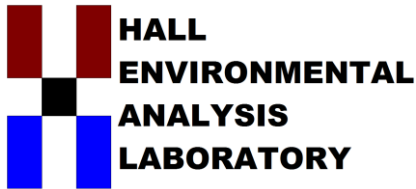
16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good				







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 01, 2022

Regina Mullen

EA Engineering Alb  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Mountain View Dairy LLC

OrderNo.: 2203E26

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/26/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 08, 2022..

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203E26

Date Reported: 6/1/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** LRG-457 (Pivot)

**Project:** Mountain View Dairy LLC

**Collection Date:** 3/25/2022 10:00:00 AM

**Lab ID:** 2203E26-002

**Matrix:** GROUNDWA

**Received Date:** 3/26/2022 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1100	50	*	mg/L	100	3/29/2022 8:52:19 PM	R86841
Nitrate+Nitrite as N	7.0	1.0		mg/L	5	3/29/2022 10:48:09 PM	R86841
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3030	20.0	*H	mg/L	1	4/13/2022 4:27:00 PM	66756
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/6/2022 10:30:00 AM	66630

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203E26

Date Reported: 6/1/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** LRG-00952 (Dairy Parlor)

**Project:** Mountain View Dairy LLC

**Collection Date:** 3/25/2022 1:20:00 PM

**Lab ID:** 2203E26-003

**Matrix:** GROUNDWA

**Received Date:** 3/26/2022 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	740	50	*	mg/L	100	3/29/2022 9:18:03 PM	R86841
Nitrate+Nitrite as N	4.2	1.0		mg/L	5	3/29/2022 11:01:01 PM	R86841
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2370	20.0	*	mg/L	1	4/5/2022 8:59:00 AM	66556
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/6/2022 10:30:00 AM	66630

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E26

01-Jun-22

**Client:** EA Engineering Alb  
**Project:** Mountain View Dairy LLC

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86841</b>	RunNo: <b>86841</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3067711</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.500								
Nitrate+Nitrite as N	ND	0.200								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86841</b>	RunNo: <b>86841</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3067712</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.71	0.500	5.000	0	94.2	90	110			
Nitrate+Nitrite as N	3.51	0.200	3.500	0	100	90	110			

Sample ID: <b>LCS-D</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86841</b>	RunNo: <b>86841</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3067721</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.76	0.500	5.000	0	95.3	90	110			
Nitrate+Nitrite as N	3.56	0.200	3.500	0	102	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E26

01-Jun-22

**Client:** EA Engineering Alb  
**Project:** Mountain View Dairy LLC

Sample ID: <b>MB-66556</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073515</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66556</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073516</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	101	80	120			

Sample ID: <b>MB-66756</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66756</b>	RunNo: <b>87215</b>								
Prep Date: <b>4/12/2022</b>	Analysis Date: <b>4/13/2022</b>	SeqNo: <b>3083829</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66756</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66756</b>	RunNo: <b>87215</b>								
Prep Date: <b>4/12/2022</b>	Analysis Date: <b>4/13/2022</b>	SeqNo: <b>3083830</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	996	20.0	1000	0	99.6	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E26

01-Jun-22

**Client:** EA Engineering Alb  
**Project:** Mountain View Dairy LLC

Sample ID: <b>MB-66630</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075974</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66630</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66630</b>	RunNo: <b>87042</b>								
Prep Date: <b>4/5/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075975</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

**Sample Log-In Check List**

Client Name: **EA Engineering**

Work Order Number: **2203E26**

RcptNo: **1**

Received By: **Desiree Dominguez** **3/26/2022 11:20:00 AM**

*DD*

Completed By: **Desiree Dominguez** **3/26/2022 12:39:47 PM**

*DD*

Reviewed By: *SEC 3/28/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA   
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 5. Sample(s) in proper container(s)? Yes  No   
 6. Sufficient sample volume for indicated test(s)? Yes  No   
 7. Are samples (except VOA and ONG) properly preserved? Yes  No   
 8. Was preservative added to bottles? Yes  No  NA   
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA   
 10. Were any sample containers received broken? Yes  No   
 11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 12. Are matrices correctly identified on Chain of Custody? Yes  No   
 13. Is it clear what analyses were requested? Yes  No   
 14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: **3**  
 (<2 or >12 unless noted)  
 Adjusted? **NO**

Checked by: *CME 3/28/22*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good				







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 31, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Sunset Dairy

OrderNo.: 2203E27

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/26/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 08, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203E27

Date Reported: 5/31/2022

**CLIENT:** EA Engineering

**Client Sample ID:** LRG-3348-AS

**Project:** Sunset Dairy

**Collection Date:** 3/25/2022 11:45:00 AM

**Lab ID:** 2203E27-004

**Matrix:** GROUNDWA

**Received Date:** 3/26/2022 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	770	50	*	mg/L	100	3/30/2022 4:49:03 PM	R86874
Nitrate+Nitrite as N	8.0	1.0		mg/L	5	3/31/2022 12:59:07 PM	R86915
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2470	20.0	*	mg/L	1	4/5/2022 8:59:00 AM	66556
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/6/2022 1:44:00 PM	66664

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

**Analytical Report**

Lab Order 2203E27

Date Reported: 5/31/2022

**CLIENT:** EA Engineering

**Client Sample ID:** LRG-3348-B

**Project:** Sunset Dairy

**Collection Date:** 3/25/2022 12:00:00 PM

**Lab ID:** 2203E27-005

**Matrix:** GROUNDWA

**Received Date:** 3/26/2022 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	370	50	*	mg/L	100	3/30/2022 5:13:52 PM	R86874
Nitrate+Nitrite as N	ND	1.0		mg/L	5	3/31/2022 1:11:31 PM	R86915
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1360	20.0	*	mg/L	1	4/5/2022 8:59:00 AM	66556
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/6/2022 1:44:00 PM	66664

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E27

31-May-22

**Client:** EA Engineering  
**Project:** Sunset Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R86874</b>		RunNo: <b>86874</b>							
Prep Date:	Analysis Date: <b>3/30/2022</b>		SeqNo: <b>3069116</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.500								
Nitrate+Nitrite as N	ND	0.200								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R86874</b>		RunNo: <b>86874</b>							
Prep Date:	Analysis Date: <b>3/30/2022</b>		SeqNo: <b>3069117</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.74	0.500	5.000	0	94.7	90	110			
Nitrate+Nitrite as N	3.52	0.200	3.500	0	101	90	110			

Sample ID: <b>LCS-D</b>	SampType: <b>ics</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R86874</b>		RunNo: <b>86874</b>							
Prep Date:	Analysis Date: <b>3/30/2022</b>		SeqNo: <b>3069173</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.5	0.50	5.000	0	90.8	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	96.9	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R86915</b>		RunNo: <b>86915</b>							
Prep Date:	Analysis Date: <b>3/31/2022</b>		SeqNo: <b>3070751</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R86915</b>		RunNo: <b>86915</b>							
Prep Date:	Analysis Date: <b>3/31/2022</b>		SeqNo: <b>3070752</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.4	0.20	3.500	0	96.4	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E27

31-May-22

**Client:** EA Engineering

**Project:** Sunset Dairy

Sample ID: <b>MB-66556</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073515</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66556</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66556</b>	RunNo: <b>86980</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/5/2022</b>	SeqNo: <b>3073516</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	101	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203E27

31-May-22

**Client:** EA Engineering

**Project:** Sunset Dairy

Sample ID: <b>MB-66664</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66664</b>	RunNo: <b>87043</b>								
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075994</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66664</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66664</b>	RunNo: <b>87043</b>								
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/6/2022</b>	SeqNo: <b>3075995</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.8	1.0	10.00	0	98.0	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# Sample Log-In Check List

Client Name: **EA Engineering**

Work Order Number: **2203E27**

RcptNo: 1

Received By: **Desiree Dominguez** 3/26/2022 11:20:00 AM

*DD*

Completed By: **Desiree Dominguez** 3/26/2022 12:54:10 PM

*DD*

Reviewed By: *SAC 3/28/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: (5)  
 (2 or >12 unless noted)  
 Adjusted? NO  
 Checked by: *CME 3/28/22*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good				



# Chain-of-Custody Record

Client: \_\_\_\_\_  
 EA Engineering, Science, and Technology  
 Mailing Address: \_\_\_\_\_  
 320 Gold Ave SW Suite \_\_\_\_\_  
 Phone #: 505-715-4279  
 email or Fax#: rmullen@eaest.com

QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type) \_\_\_\_\_

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3-25	10:50	GW	LRG-3359-AA-Twin S	2		2203E27
3-25	11:10	GW	LRG-3348-S-2 Twin N	2		-001
3-25	11:35	GW	LRG-940-POD2	2		-002
3-25	11:45	GW	LRG-3348-AS	2		-003
3-25	12:00	GW	LRG-3348-B	2		-004
						-005

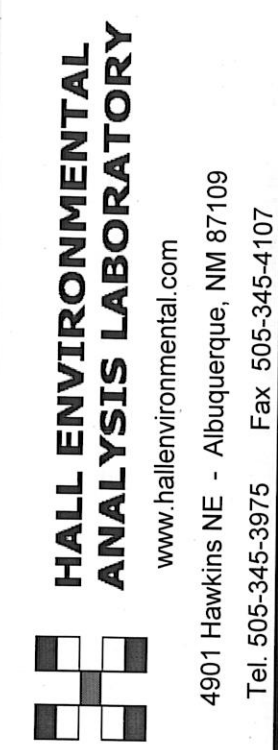
Date: 3-25 Time: 17:00 Relinquished by: *Chad*  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Relinquished by: \_\_\_\_\_

Turn-Around Time:  
 Standard  Rush  
 Project: *Sunset Dairy*  
 Project #: \_\_\_\_\_

Project Manager: Gina Mullen  
 Sampler: Angel Nieto Rivera  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 1.8-0.0 ± 1.8°C

Nitrate/Nitrites EPA Method 300	TKN SM 4500 NORG C	Chloride EPA 300	TDS SM 2540 C MOD	Sulfate EPA 300	Phosphorus EPA 6010B	Total Sulfur
X	X					
X	X					
X	X					
X	X	X	X			
X	X	X	X			

Received by: *JD* Date: 3/26/22 Time: 11:20  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_



## Analysis Request

Remarks:  
 Remove Samples from report, as per Gina - LRG-3359-AA-Twin S; LRG-3348-S-2 Twin N; LRG-940-POD2.  
 5/31/22 MMG

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 07, 2022

Regina Mullen  
EA Engineering Alb  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Bright Star Dairy

OrderNo.: 2202734

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/15/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202734

Date Reported: 3/7/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 86/340-01

**Project:** Bright Star Dairy

**Collection Date:** 2/14/2022 10:25:00 AM

**Lab ID:** 2202734-001

**Matrix:** GROUNDWA

**Received Date:** 2/15/2022 12:11:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	230	50		mg/L	100	2/15/2022 8:57:43 PM	A85856
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/15/2022 8:45:19 PM	A85856
Nitrogen, Nitrate (As N)	3.2	1.0		mg/L	10	2/15/2022 8:45:19 PM	A85856
Sulfate	750	50	*	mg/L	100	2/15/2022 8:57:43 PM	A85856
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2170	40.0	*D	mg/L	1	2/22/2022 5:27:00 PM	65683
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	2/17/2022 1:49:00 PM	65615

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202734

Date Reported: 3/7/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 70/86/340-01

**Project:** Bright Star Dairy

**Collection Date:** 2/14/2022 12:33:00 PM

**Lab ID:** 2202734-002

**Matrix:** GROUNDWA

**Received Date:** 2/15/2022 12:11:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	1700	100	*	mg/L	200	3/2/2022 9:11:48 PM	R86214
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/15/2022 9:59:48 PM	A85856
Nitrogen, Nitrate (As N)	20	1.0	*	mg/L	10	2/15/2022 9:59:48 PM	A85856
Sulfate	1400	50	*	mg/L	100	2/15/2022 10:12:13 PM	A85856
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	5440	40.0	*D	mg/L	1	2/22/2022 5:27:00 PM	65683
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	2/17/2022 1:49:00 PM	65615

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202734

Date Reported: 3/7/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 340-01

**Project:** Bright Star Dairy

**Collection Date:** 2/14/2022 1:58:00 PM

**Lab ID:** 2202734-003

**Matrix:** GROUNDWA

**Received Date:** 2/15/2022 12:11:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	630	50	*	mg/L	100	2/15/2022 10:37:03 PM	A85856
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/15/2022 10:24:38 PM	A85856
Nitrogen, Nitrate (As N)	48	1.0	*	mg/L	10	2/15/2022 10:24:38 PM	A85856
Sulfate	550	50	*	mg/L	100	2/15/2022 10:37:03 PM	A85856
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2950	40.0	*D	mg/L	1	2/22/2022 5:27:00 PM	65683
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	2/17/2022 1:49:00 PM	65615

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202734

Date Reported: 3/7/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 340-02

**Project:** Bright Star Dairy

**Collection Date:** 2/14/2022 3:15:00 PM

**Lab ID:** 2202734-004

**Matrix:** GROUNDWA

**Received Date:** 2/15/2022 12:11:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	850	50	*	mg/L	100	2/15/2022 11:01:52 PM	A85856
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/15/2022 10:49:28 PM	A85856
Nitrogen, Nitrate (As N)	55	1.0	*	mg/L	10	2/15/2022 10:49:28 PM	A85856
Sulfate	610	50	*	mg/L	100	2/15/2022 11:01:52 PM	A85856
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3200	100	*D	mg/L	1	2/22/2022 5:27:00 PM	65683
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	2/17/2022 1:49:00 PM	65615

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202734

07-Mar-22

Client: EA Engineering Alb

Project: Bright Star Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A85856</b>	RunNo: <b>85856</b>								
Prep Date:	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023245</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A85856</b>	RunNo: <b>85856</b>								
Prep Date:	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023246</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.5	0.50	5.000	0	90.1	90	110			
Nitrogen, Nitrite (As N)	0.91	0.10	1.000	0	91.3	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.4	90	110			
Sulfate	9.1	0.50	10.00	0	90.8	90	110			

Sample ID: <b>2202734-001AMS</b>	SampType: <b>ms</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>86/340-01</b>	Batch ID: <b>A85856</b>	RunNo: <b>85856</b>								
Prep Date:	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023255</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	8.7	1.0	10.00	0	87.1	83.4	105			
Nitrogen, Nitrate (As N)	28	1.0	25.00	3.154	98.6	93.5	110			

Sample ID: <b>2202734-001AMSD</b>	SampType: <b>msd</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>86/340-01</b>	Batch ID: <b>A85856</b>	RunNo: <b>85856</b>								
Prep Date:	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023256</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	8.8	1.0	10.00	0	87.6	83.4	105	0.492	20	
Nitrogen, Nitrate (As N)	28	1.0	25.00	3.154	99.0	93.5	110	0.384	20	

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86214</b>	RunNo: <b>86214</b>								
Prep Date:	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3038855</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Estimated value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix interference	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202734

07-Mar-22

Client: EA Engineering Alb

Project: Bright Star Dairy

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86214</b>	RunNo: <b>86214</b>								
Prep Date:	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3038863</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	91.6	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202734

07-Mar-22

Client: EA Engineering Alb

Project: Bright Star Dairy

Sample ID: <b>MB-65683</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65683</b>	RunNo: <b>86002</b>								
Prep Date: <b>2/21/2022</b>	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3029846</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65683</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65683</b>	RunNo: <b>86002</b>								
Prep Date: <b>2/21/2022</b>	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3029847</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202734

07-Mar-22

Client: EA Engineering Alb

Project: Bright Star Dairy

Sample ID: <b>MB-65615</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65615</b>	RunNo: <b>85909</b>								
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/17/2022</b>	SeqNo: <b>3025179</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65615</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65615</b>	RunNo: <b>85909</b>								
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/17/2022</b>	SeqNo: <b>3025180</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

**Sample Log-In Check List**

Client Name: **EA Engineering**

Work Order Number: **2202734**

RcptNo: 1

Received By: **Cheyenne Cason** 2/15/2022 12:11:00 PM *CC*

Completed By: **Cheyenne Cason** 2/15/2022 1:39:12 PM *CC*

Reviewed By: *SC 2/15/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA   
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
     samples not frozen  
 5. Sample(s) in proper container(s)? Yes  No   
 6. Sufficient sample volume for indicated test(s)? Yes  No   
 7. Are samples (except VOA and ONG) properly preserved? Yes  No   
 8. Was preservative added to bottles? Yes  No  NA   
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA   
 10. Were any sample containers received broken? Yes  No   
 11. Does paperwork match bottle labels? Yes  No   
     (Note discrepancies on chain of custody)  
 12. Are matrices correctly identified on Chain of Custody? Yes  No   
 13. Is it clear what analyses were requested? Yes  No   
 14. Were all holding times able to be met? Yes  No   
     (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 4  
 (<2 or >12 unless noted)  
 Adjusted? NO  
 Checked by: KPG 2/15/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.4	Good	Not Present			





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 09, 2022

Regina Mullen  
EA Engineering Alb  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX

RE: Mountain View Dairy

OrderNo.: 2202786

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/16/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202786

Date Reported: 3/9/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 70-03

**Project:** Mountain View Dairy

**Collection Date:** 2/15/2022 10:37:00 AM

**Lab ID:** 2202786-001

**Matrix:** GROUNDWA

**Received Date:** 2/16/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	1600	50	*	mg/L	100	2/17/2022 12:12:25 AM	R85896
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/17/2022 12:00:01 AM	R85896
Nitrogen, Nitrate (As N)	38	1.0	*	mg/L	10	2/17/2022 12:00:01 AM	R85896
Sulfate	840	50	*	mg/L	100	2/17/2022 12:12:25 AM	R85896
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	4240	20.0	*	mg/L	1	2/22/2022 2:39:00 PM	65686
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	2/21/2022 1:38:00 PM	65644

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202786

Date Reported: 3/9/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 70-01

**Project:** Mountain View Dairy

**Collection Date:** 2/15/2022 12:08:00 PM

**Lab ID:** 2202786-002

**Matrix:** GROUNDWA

**Received Date:** 2/16/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	690	50	*	mg/L	100	2/24/2022 12:06:47 AM	A86057
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/17/2022 12:24:50 AM	R85896
Nitrogen, Nitrate (As N)	20	1.0	*	mg/L	10	2/17/2022 12:24:50 AM	R85896
Sulfate	720	50	*	mg/L	100	3/7/2022 9:56:41 PM	R86285
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3170	20.0	*	mg/L	1	2/22/2022 2:39:00 PM	65686
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	2/21/2022 1:38:00 PM	65644

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202786

Date Reported: 3/9/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 70-02

**Project:** Mountain View Dairy

**Collection Date:** 2/15/2022 2:00:00 PM

**Lab ID:** 2202786-003

**Matrix:** GROUNDWA

**Received Date:** 2/16/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	860	50	*	mg/L	100	2/17/2022 1:26:52 AM	R85896
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/17/2022 1:14:27 AM	R85896
Nitrogen, Nitrate (As N)	34	1.0	*	mg/L	10	2/17/2022 1:14:27 AM	R85896
Sulfate	470	5.0	*	mg/L	10	2/17/2022 1:14:27 AM	R85896
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2980	20.0	*	mg/L	1	2/22/2022 2:39:00 PM	65686
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	2/21/2022 1:38:00 PM	65644

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202786

Date Reported: 3/9/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 70-04

**Project:** Mountain View Dairy

**Collection Date:** 2/15/2022 2:56:00 PM

**Lab ID:** 2202786-004

**Matrix:** GROUNDWA

**Received Date:** 2/16/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	600	50	*	mg/L	100	2/17/2022 1:51:40 AM	R85896
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/17/2022 1:39:16 AM	R85896
Nitrogen, Nitrate (As N)	17	1.0	*	mg/L	10	2/17/2022 1:39:16 AM	R85896
Sulfate	730	50	*	mg/L	100	2/17/2022 1:51:40 AM	R85896
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3000	100	*D	mg/L	1	2/22/2022 2:39:00 PM	65686
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	2/21/2022 1:38:00 PM	65644

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202786

09-Mar-22

**Client:** EA Engineering Alb  
**Project:** Mountain View Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R85896</b>	RunNo: <b>85896</b>								
Prep Date:	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024984</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R85896</b>	RunNo: <b>85896</b>								
Prep Date:	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024985</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.2	90	110			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	99.9	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	102	90	110			
Sulfate	9.4	0.50	10.00	0	94.4	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A86057</b>	RunNo: <b>86057</b>								
Prep Date:	Analysis Date: <b>2/23/2022</b>	SeqNo: <b>3032194</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A86057</b>	RunNo: <b>86057</b>								
Prep Date:	Analysis Date: <b>2/23/2022</b>	SeqNo: <b>3032195</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.8	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86285</b>	RunNo: <b>86285</b>								
Prep Date:	Analysis Date: <b>3/7/2022</b>	SeqNo: <b>3043139</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202786

09-Mar-22

**Client:** EA Engineering Alb  
**Project:** Mountain View Dairy

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86285</b>	RunNo: <b>86285</b>								
Prep Date:	Analysis Date: <b>3/7/2022</b>	SeqNo: <b>3043140</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.6	0.50	10.00	0	96.0	90	110			

## Qualifiers:

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202786

09-Mar-22

**Client:** EA Engineering Alb  
**Project:** Mountain View Dairy

Sample ID: <b>MB-65686</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65686</b>	RunNo: <b>85996</b>								
Prep Date: <b>2/21/2022</b>	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3029379</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65686</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65686</b>	RunNo: <b>85996</b>								
Prep Date: <b>2/21/2022</b>	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3029380</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	101	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202786

09-Mar-22

**Client:** EA Engineering Alb  
**Project:** Mountain View Dairy

Sample ID: <b>MB-65644</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65644</b>	RunNo: <b>85968</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>3028228</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65644</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65644</b>	RunNo: <b>85968</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>3028229</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0	101	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



Hall Environmental Analysis Laboratory  
 4901 Hawkins NE  
 Albuquerque, NM 87109  
 TEL: 505-345-3975 FAX: 505-345-4107  
 Website: clients.hallenvironmental.com

# Sample Log-In Check List

Client Name: EA Engineering

Work Order Number: 2202786

RcptNo: 1

Received By: Juan Rojas

2/16/2022 9:05:00 AM

*Juan Rojas*

Completed By: Sean Livingston

2/16/2022 10:47:00 AM

*Sean Livingston*

Reviewed By: *JR 2-16-22*

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

### Log In

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0° C? Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes  No
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH: 4  
 (<2 or >12 unless noted)  
 Adjusted? No  
 Checked by: SEA 2/16/22

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes  No  NA

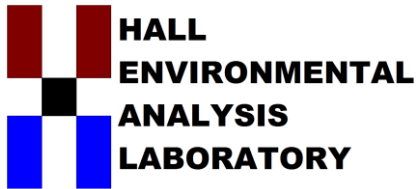
Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good				





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 08, 2022

Regina Mullen

EA Engineering Alb  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Dominguez Dairy 2

OrderNo.: 2202884

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/17/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202884

Date Reported: 3/8/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 42-03

**Project:** Dominguez Dairy 2

**Collection Date:** 2/16/2022 10:40:00 AM

**Lab ID:** 2202884-001

**Matrix:** AQUEOUS

**Received Date:** 2/17/2022 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1000	50	*	mg/L	100	3/4/2022 2:09:08 PM	R86272
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/17/2022 9:51:56 PM	R85924
Nitrogen, Nitrate (As N)	31	1.0	*	mg/L	10	2/17/2022 9:51:56 PM	R85924
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3240	20.0	*	mg/L	1	2/25/2022 12:25:00 PM	65749
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	2/22/2022 1:16:00 PM	65681

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202884

Date Reported: 3/8/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 42-13

**Project:** Dominguez Dairy 2

**Collection Date:** 2/16/2022 12:20:00 PM

**Lab ID:** 2202884-002

**Matrix:** AQUEOUS

**Received Date:** 2/17/2022 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1000	50	*	mg/L	100	3/4/2022 2:21:28 PM	R86272
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/17/2022 10:17:08 PM	R85924
Nitrogen, Nitrate (As N)	16	1.0	*	mg/L	10	2/17/2022 10:17:08 PM	R85924
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3330	20.0	*	mg/L	1	2/25/2022 12:25:00 PM	65749
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	2/22/2022 1:16:00 PM	65681

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202884

Date Reported: 3/8/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 42-02

**Project:** Dominguez Dairy 2

**Collection Date:** 2/16/2022 3:30:00 PM

**Lab ID:** 2202884-003

**Matrix:** AQUEOUS

**Received Date:** 2/17/2022 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	520	50	*	mg/L	100	3/4/2022 2:33:49 PM	R86272
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/17/2022 10:42:52 PM	R85924
Nitrogen, Nitrate (As N)	7.3	1.0		mg/L	10	2/17/2022 10:42:52 PM	R85924
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2850	20.0	*	mg/L	1	2/25/2022 12:25:00 PM	65749
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	2/22/2022 1:16:00 PM	65681

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202884

08-Mar-22

Client: EA Engineering Alb

Project: Dominguez Dairy 2

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R85924</b>	RunNo: <b>85924</b>								
Prep Date:	Analysis Date: <b>2/17/2022</b>	SeqNo: <b>3026012</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R85924</b>	RunNo: <b>85924</b>								
Prep Date:	Analysis Date: <b>2/17/2022</b>	SeqNo: <b>3026019</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.97	0.10	1.000	0	97.3	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.6	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86272</b>	RunNo: <b>86272</b>								
Prep Date:	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3042009</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86272</b>	RunNo: <b>86272</b>								
Prep Date:	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3042010</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.9	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202884

08-Mar-22

**Client:** EA Engineering Alb  
**Project:** Dominguez Dairy 2

Sample ID: <b>MB-65749</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65749</b>	RunNo: <b>86098</b>								
Prep Date: <b>2/23/2022</b>	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3033793</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65749</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65749</b>	RunNo: <b>86098</b>								
Prep Date: <b>2/23/2022</b>	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3033794</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Sample ID: <b>2202884-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>42-03</b>	Batch ID: <b>65749</b>	RunNo: <b>86098</b>								
Prep Date: <b>2/23/2022</b>	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3033800</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	3270	20.0						1.04	10	*

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202884

08-Mar-22

Client: EA Engineering Alb

Project: Dominguez Dairy 2

Sample ID: <b>MB-65681</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65681</b>	RunNo: <b>85998</b>								
Prep Date: <b>2/21/2022</b>	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3029801</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65681</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65681</b>	RunNo: <b>85998</b>								
Prep Date: <b>2/21/2022</b>	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3029802</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2202884

RcptNo: 1

Received By: Tracy Casarrubias 2/17/2022 11:00:00 AM

Completed By: Tracy Casarrubias 2/17/2022 1:43:07 PM

Reviewed By: DAD 2/17/22

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA   
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 5. Sample(s) in proper container(s)? Samples not Frozen. Yes  No   
 6. Sufficient sample volume for indicated test(s)? Yes  No   
 7. Are samples (except VOA and ONG) properly preserved? Yes  No   
 8. Was preservative added to bottles? Yes  No  NA   
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA   
 10. Were any sample containers received broken? Yes  No   
 11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 12. Are matrices correctly identified on Chain of Custody? Yes  No   
 13. Is it clear what analyses were requested? Yes  No   
 14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 3  
 (<2 or >12 unless noted)  
 Adjusted? NO  
 Checked by: TO 2/17/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

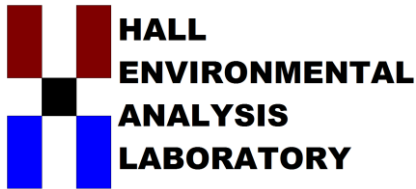
16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-1.4	Good	Not Present			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 08, 2022

Regina Mullen

EA Engineering Alb  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Dominguez Dairy 2

OrderNo.: 2202914

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/18/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 2202914  
 Date Reported: 3/8/2022

**CLIENT:** EA Engineering Alb  
**Project:** Dominguez Dairy 2  
**Lab ID:** 2202914-001

**Client Sample ID:** 42-08  
**Collection Date:** 2/17/2022 10:38:00 AM  
**Matrix:** GROUNDWA **Received Date:** 2/18/2022 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	270	50	*	mg/L	100	2/18/2022 6:37:31 PM	R85947
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/18/2022 5:58:55 PM	R85947
Nitrogen, Nitrate (As N)	25	1.0	*	mg/L	10	2/18/2022 5:58:55 PM	R85947
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1830	20.0	*	mg/L	1	2/24/2022 11:30:00 AM	65719
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	2/23/2022 1:34:00 PM	65718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 2202914  
 Date Reported: 3/8/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 42-06

**Project:** Dominguez Dairy 2

**Collection Date:** 2/17/2022 11:50:00 AM

**Lab ID:** 2202914-002

**Matrix:** GROUNDWA

**Received Date:** 2/18/2022 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	570	50	*	mg/L	100	2/18/2022 7:28:57 PM	R85947
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/18/2022 7:16:05 PM	R85947
Nitrogen, Nitrate (As N)	170	10	*	mg/L	100	2/18/2022 7:28:57 PM	R85947
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3510	20.0	*	mg/L	1	2/24/2022 11:30:00 AM	65719
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	2/23/2022 1:34:00 PM	65718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 2202914  
 Date Reported: 3/8/2022

**CLIENT:** EA Engineering Alb  
**Project:** Dominguez Dairy 2  
**Lab ID:** 2202914-003

**Client Sample ID:** 42-11  
**Collection Date:** 2/17/2022 2:21:00 PM  
**Matrix:** GROUNDWA **Received Date:** 2/18/2022 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	380	50	*	mg/L	100	2/18/2022 7:54:40 PM	R85947
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/18/2022 7:41:48 PM	R85947
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	2/18/2022 7:41:48 PM	R85947
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1410	20.0	*	mg/L	1	2/24/2022 11:30:00 AM	65719
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	2/23/2022 1:34:00 PM	65718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202914

Date Reported: 3/8/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 42-12

**Project:** Dominguez Dairy 2

**Collection Date:** 2/17/2022 3:15:00 PM

**Lab ID:** 2202914-004

**Matrix:** GROUNDWA

**Received Date:** 2/18/2022 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	270	50	*	mg/L	100	2/18/2022 8:20:24 PM	R85947
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/18/2022 8:07:32 PM	R85947
Nitrogen, Nitrate (As N)	1.9	1.0		mg/L	10	2/18/2022 8:07:32 PM	R85947
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1090	20.0	*	mg/L	1	2/24/2022 11:30:00 AM	65719
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	2/23/2022 1:34:00 PM	65718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202914

Date Reported: 3/8/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 42-10

**Project:** Dominguez Dairy 2

**Collection Date:** 2/15/2022 3:55:00 PM

**Lab ID:** 2202914-005

**Matrix:** GROUNDWA

**Received Date:** 2/18/2022 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	410	50	*	mg/L	100	2/18/2022 8:46:09 PM	R85947
Nitrate+Nitrite as N	6.1	1.0		mg/L	5	3/4/2022 11:23:41 PM	R86255
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1590	20.0	*	mg/L	1	2/24/2022 11:30:00 AM	65719
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	2/23/2022 1:34:00 PM	65718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202914

08-Mar-22

**Client:** EA Engineering Alb  
**Project:** Dominguez Dairy 2

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R85947</b>	RunNo: <b>85947</b>								
Prep Date:	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027084</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R85947</b>	RunNo: <b>85947</b>								
Prep Date:	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027086</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	4.6	0.50	5.000	0	92.1	90	110			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	96.1	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.0	90	110			

Sample ID: <b>2202914-001AMS</b>	SampType: <b>ms</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>42-08</b>	Batch ID: <b>R85947</b>	RunNo: <b>85947</b>								
Prep Date:	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027102</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	9.5	1.0	10.00	0	94.8	83.4	105			
Nitrogen, Nitrate (As N)	51	1.0	25.00	24.70	106	93.5	110			

Sample ID: <b>2202914-001AMSD</b>	SampType: <b>msd</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>42-08</b>	Batch ID: <b>R85947</b>	RunNo: <b>85947</b>								
Prep Date:	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027103</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	9.4	1.0	10.00	0	94.3	83.4	105	0.613	20	
Nitrogen, Nitrate (As N)	51	1.0	25.00	24.70	105	93.5	110	0.527	20	

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86255</b>	RunNo: <b>86255</b>								
Prep Date:	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3041637</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrate+Nitrite as N	ND	0.20								
----------------------	----	------	--	--	--	--	--	--	--	--

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202914

08-Mar-22

Client: EA Engineering Alb

Project: Dominguez Dairy 2

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86255</b>	RunNo: <b>86255</b>								
Prep Date:	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3041638</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.5	0.20	3.500	0	101	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202914

08-Mar-22

**Client:** EA Engineering Alb  
**Project:** Dominguez Dairy 2

Sample ID: <b>MB-65719</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65719</b>	RunNo: <b>86053</b>								
Prep Date: <b>2/22/2022</b>	Analysis Date: <b>2/24/2022</b>	SeqNo: <b>3032046</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65719</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65719</b>	RunNo: <b>86053</b>								
Prep Date: <b>2/22/2022</b>	Analysis Date: <b>2/24/2022</b>	SeqNo: <b>3032047</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	998	20.0	1000	0	99.8	80	120			

Sample ID: <b>2202914-004ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>42-12</b>	Batch ID: <b>65719</b>	RunNo: <b>86053</b>								
Prep Date: <b>2/22/2022</b>	Analysis Date: <b>2/24/2022</b>	SeqNo: <b>3032067</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1090	20.0						0.0916	10	*

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202914

08-Mar-22

Client: EA Engineering Alb

Project: Dominguez Dairy 2

Sample ID: <b>MB-65718</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65718</b>	RunNo: <b>86031</b>								
Prep Date: <b>2/22/2022</b>	Analysis Date: <b>2/23/2022</b>	SeqNo: <b>3031262</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65718</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65718</b>	RunNo: <b>86031</b>								
Prep Date: <b>2/22/2022</b>	Analysis Date: <b>2/23/2022</b>	SeqNo: <b>3031263</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2202914

RcptNo: 1

Received By: Cheyenne Cason 2/18/2022 9:32:00 AM

*Handwritten signature*

Completed By: Cheyenne Cason 2/18/2022 9:38:47 AM

*Handwritten signature*

Reviewed By: JR 2/18/22

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C? Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 5  
 (<2 or >12 unless noted)  
 Adjusted? NO  
 Checked by: WPG 2/18/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Not Present			

# Chain-of-Custody Record

Client: \_\_\_\_\_  
 EA Engineering, Science, and Technology  
 Mailing Address: \_\_\_\_\_  
 320 Gold Ave SW Suite \_\_\_\_\_  
 Phone #: 505-715-4279  
 email or Fax#: rmullen@eaest.com  
 QA/QC Package: \_\_\_\_\_  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Turn-Around Time: \_\_\_\_\_  
 Standard  Rush  
 Project Name: \_\_\_\_\_  
 Dominguez Dairy 2  
 Project #: \_\_\_\_\_  
 Project Manager: \_\_\_\_\_  
 Gina Mullen  
 Sampler: Angel Nieto Rivera  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 1.3-0.1 = 1.2

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2-17	10:38	Gw	42-08	2		2202914
2-17	11:50	Gw	42-06	2		001
2-17	14:21	Gw	42-11	2		002
2-17	15:15	Gw	42-12	2		003
2-15	15:55	Gw	42-10	2		004
						005

Date: 2-17 Time: 17:30 Relinquished by: *Paul H*  
 Date: 2-17 Time: 09:32 Received by: *Care Soder*  
 Via: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Remarks: \_\_\_\_\_

**Analysis Request**

Nitrate/Nitrites EPA Method 300	TKN SM 4500 NORG C	Chloride EPA 300	TDS SM 2540 C MOD	Sulfate EPA 300	Phosphorus EPA 6010B	Total Sulfur
X	X	X	X			
X	X	X	X			
X	X	X	X			
X	X	X	X			

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 01, 2022

Regina Mullen

EA Engineering Alb  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Dominguez Dairy 1

OrderNo.: 2202950

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/19/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202950

Date Reported: 3/1/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 624-11

**Project:** Dominguez Dairy 1

**Collection Date:** 2/18/2022 10:19:00 AM

**Lab ID:** 2202950-001

**Matrix:** GROUNDWA

**Received Date:** 2/19/2022 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1100	50	*	mg/L	100	2/22/2022 5:05:53 PM	R86015
Nitrate+Nitrite as N	9.7	1.0		mg/L	5	2/22/2022 5:18:17 PM	R86015
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3220	100	*D	mg/L	1	2/28/2022 6:29:00 PM	65776
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	1.1	1.0		mg/L	1	2/25/2022 9:19:00 AM	65781

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202950

Date Reported: 3/1/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 624-01

**Project:** Dominguez Dairy 1

**Collection Date:** 2/18/2022 11:45:00 AM

**Lab ID:** 2202950-002

**Matrix:** GROUNDWA

**Received Date:** 2/19/2022 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	670	50	*	mg/L	100	2/22/2022 7:22:21 PM	A86015
Nitrate+Nitrite as N	6.1	1.0		mg/L	5	2/23/2022 2:24:09 AM	A86015
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2340	20.0	*	mg/L	1	2/28/2022 6:29:00 PM	65776
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	2/25/2022 9:19:00 AM	65781

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202950

Date Reported: 3/1/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 624-02

**Project:** Dominguez Dairy 1

**Collection Date:** 2/18/2022 1:20:00 PM

**Lab ID:** 2202950-003

**Matrix:** GROUNDWA

**Received Date:** 2/19/2022 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	830	50	*	mg/L	100	2/22/2022 7:47:09 PM	A86015
Nitrate+Nitrite as N	12	1.0	*	mg/L	5	2/23/2022 2:36:34 AM	A86015
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3240	20.0	*	mg/L	1	2/28/2022 6:29:00 PM	65776
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	2/25/2022 9:19:00 AM	65781

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202950

Date Reported: 3/1/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 624-10

**Project:** Dominguez Dairy 1

**Collection Date:** 2/18/2022 2:24:00 PM

**Lab ID:** 2202950-004

**Matrix:** GROUNDWA

**Received Date:** 2/19/2022 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	390	50	*	mg/L	100	2/22/2022 8:36:48 PM	A86015
Nitrate+Nitrite as N	14	1.0	*	mg/L	5	2/23/2022 2:48:59 AM	A86015
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2200	100	*D	mg/L	1	2/28/2022 6:29:00 PM	65776
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	2/25/2022 9:19:00 AM	65781

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202950

Date Reported: 3/1/2022

**CLIENT:** EA Engineering Alb

**Client Sample ID:** 624-09

**Project:** Dominguez Dairy 1

**Collection Date:** 2/18/2022 3:35:00 PM

**Lab ID:** 2202950-005

**Matrix:** GROUNDWA

**Received Date:** 2/19/2022 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	310	50	*	mg/L	100	2/22/2022 9:01:37 PM	A86015
Nitrate+Nitrite as N	1.6	1.0		mg/L	5	2/23/2022 3:01:23 AM	A86015
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1880	200	*D	mg/L	1	2/28/2022 6:29:00 PM	65776
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	1.1	1.0		mg/L	1	2/25/2022 9:19:00 AM	65781

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202950

01-Mar-22

**Client:** EA Engineering Alb

**Project:** Dominguez Dairy 1

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86015</b>	RunNo: <b>86015</b>								
Prep Date:	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3030702</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86015</b>	RunNo: <b>86015</b>								
Prep Date:	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3030703</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.1	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	98.3	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A86015</b>	RunNo: <b>86015</b>								
Prep Date:	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3030740</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A86015</b>	RunNo: <b>86015</b>								
Prep Date:	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3030741</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.2	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	98.5	90	110			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202950

01-Mar-22

**Client:** EA Engineering Alb

**Project:** Dominguez Dairy 1

Sample ID: <b>MB-65776</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65776</b>	RunNo: <b>86140</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3035672</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65776</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65776</b>	RunNo: <b>86140</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3035673</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202950

01-Mar-22

**Client:** EA Engineering Alb  
**Project:** Dominguez Dairy 1

Sample ID: <b>MB-65781</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65781</b>	RunNo: <b>86090</b>								
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3033339</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65781</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65781</b>	RunNo: <b>86090</b>								
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3033340</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.8	1.0	10.00	0	98.0	80	120			

Sample ID: <b>2202950-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>624-01</b>	Batch ID: <b>65781</b>	RunNo: <b>86090</b>								
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3033350</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.7	1.0	10.00	0	96.6	75	125			

Sample ID: <b>2202950-002AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>624-01</b>	Batch ID: <b>65781</b>	RunNo: <b>86090</b>								
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3033351</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.5	1.0	10.00	0	95.2	75	125	1.46	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

**Sample Log-In Check List**

Client Name: EA Engineering      Work Order Number: 2202950      RcptNo: 1

Received By: Kasandra Payan      2/19/2022 10:15:00 AM

Completed By: Sean Livingston      2/21/2022 8:21:15 AM

Reviewed By: *WPK*      *2/21/22*

*WPK*  
*Sean Livingston*

**Chain of Custody**

1. Is Chain of Custody complete?      Yes       No       Not Present
2. How was the sample delivered?      FedEx

**Log In**

3. Was an attempt made to cool the samples?      Yes       No       NA
4. Were all samples received at a temperature of >0° C to 6.0°C      Yes       No       NA
5. Sample(s) in proper container(s)?      Yes       No       Not frozen
6. Sufficient sample volume for indicated test(s)?      Yes       No
7. Are samples (except VOA and ONG) properly preserved?      Yes       No
8. Was preservative added to bottles?      Yes       No       NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA?      Yes       No       NA
10. Were any sample containers received broken?      Yes       No
11. Does paperwork match bottle labels?      Yes       No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody?      Yes       No
13. Is it clear what analyses were requested?      Yes       No
14. Were all holding times able to be met?      Yes       No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 5  
 (<2 or >12 unless noted)  
 Adjusted? X/0  
 Checked by: JN 2/21/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order?      Yes       No       NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.5	Good				

# Chain-of-Custody Record

Client: \_\_\_\_\_  
 EA Engineering, Science, and Technology  
 Mailing Address: \_\_\_\_\_  
 320 Gold Ave SW Suite \_\_\_\_\_  
 Phone #: 505-715-4279  
 email or Fax#: rmullen@eaest.com

QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Turn-Around Time: \_\_\_\_\_  
 Standard  Rush  
 Project Name: \_\_\_\_\_  
 Dominguez Dairy 1  
 Project #: \_\_\_\_\_

Project Manager: Gina Mullen  
 Sampler: Angel Nieto Rivera  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CP): -0.9-0.1 = -0.5

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2-18	10:19	GW	624-11	2		2202950
2-18	11:45	GW	624-01	2		001
2-18	13:20	GW	624-02	2		002
2-18	14:24	GW	624-10	2		003
2-18	15:35	GW	624-09	2		004
						005

Date: 2-18 Time: 16:55 Relinquished by: *Carol ML*  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Relinquished by: \_\_\_\_\_

Received by: *[Signature]* Date: 2/18/22 Time: 10:15  
 Received by: \_\_\_\_\_ Date: 2/19/22 Time: \_\_\_\_\_



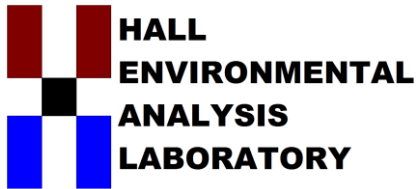
**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

Nitrate/Nitrites EPA Method 300	TKN SM 4500 NORG C	Chloride EPA 300	TDS SM 2540 C MOD	Sulfate EPA 300	Phosphorus EPA 6010B	Total Sulfur
X	X	X	X			
X	X	X	X			
X	X	X	X			
X	X	X	X			
X	X	X	X			

Remarks: Not Frozen

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 10, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX

RE: Big Sky Dairy

OrderNo.: 2203014

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/1/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203014

Date Reported: 3/10/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 833-10

**Project:** Big Sky Dairy

**Collection Date:** 2/28/2022 11:36:00 AM

**Lab ID:** 2203014-001

**Matrix:** GROUNDWA

**Received Date:** 3/1/2022 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	890	50	*	mg/L	100	3/1/2022 11:42:14 PM	R86178
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2022 11:03:37 PM	R86178
Nitrogen, Nitrate (As N)	1.0	1.0		mg/L	10	3/1/2022 11:03:37 PM	R86178
Sulfate	570	50	*	mg/L	100	3/1/2022 11:42:14 PM	R86178
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2830	20.0	*	mg/L	1	3/8/2022 1:34:00 PM	65954
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	1.1	1.0		mg/L	1	3/4/2022 10:36:00 AM	65921

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203014

10-Mar-22

**Client:** EA Engineering

**Project:** Big Sky Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86178</b>	RunNo: <b>86178</b>								
Prep Date:	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3037561</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86178</b>	RunNo: <b>86178</b>								
Prep Date:	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3037562</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.0	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	97.6	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	100	90	110			
Sulfate	10	0.50	10.00	0	100	90	110			

Sample ID: <b>2203014-001AMS</b>	SampType: <b>ms</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>833-10</b>	Batch ID: <b>R86178</b>	RunNo: <b>86178</b>								
Prep Date:	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3037610</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	9.6	1.0	10.00	0.1540	94.5	83.4	105			
Nitrogen, Nitrate (As N)	26	1.0	25.00	1.034	101	93.5	110			

Sample ID: <b>2203014-001AMSD</b>	SampType: <b>msd</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>833-10</b>	Batch ID: <b>R86178</b>	RunNo: <b>86178</b>								
Prep Date:	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3037611</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	9.5	1.0	10.00	0.1540	93.6	83.4	105	0.889	20	
Nitrogen, Nitrate (As N)	26	1.0	25.00	1.034	100	93.5	110	0.509	20	

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203014

10-Mar-22

**Client:** EA Engineering  
**Project:** Big Sky Dairy

Sample ID: <b>MB-65954</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65954</b>	RunNo: <b>86313</b>								
Prep Date: <b>3/4/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043808</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65954</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65954</b>	RunNo: <b>86313</b>								
Prep Date: <b>3/4/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043809</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Sample ID: <b>2203014-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>833-10</b>	Batch ID: <b>65954</b>	RunNo: <b>86313</b>								
Prep Date: <b>3/4/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043815</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2820	20.0						0.354	10	*

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203014

10-Mar-22

**Client:** EA Engineering  
**Project:** Big Sky Dairy

Sample ID: <b>MB-65921</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65921</b>	RunNo: <b>86251</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3040891</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65921</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65921</b>	RunNo: <b>86251</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3040892</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2203014

RcptNo: 1

Received By: Kasandra Payan

3/1/2022 9:45:00 AM

*KP*

Completed By: Sean Livingston

3/1/2022 10:01:35 AM

*Sean Livingston*

Reviewed By: *jr 3/1/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 1  
 (<2 or >12 unless noted)  
 Adjusted? NO *KPG 3/1/22*  
 Checked by: *KPG af*  
*3/1/22*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good				





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 23, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Sunset Dairy

OrderNo.: 2203016

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/1/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203016

Date Reported: 3/23/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 257-01

**Project:** Sunset Dairy

**Collection Date:** 2/28/2022 1:45:00 PM

**Lab ID:** 2203016-001

**Matrix:** GROUNDWA

**Received Date:** 3/1/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	870	50	*	mg/L	100	3/2/2022 12:01:52 PM	R86219
Sulfate	660	50	*	mg/L	100	3/2/2022 12:01:52 PM	R86219
Nitrate+Nitrite as N	35	2.0	*	mg/L	10	3/16/2022 10:27:37 AM	R86543
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3400	100	*D	mg/L	1	3/8/2022 1:34:00 PM	65954
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/5/2022 8:20:00 AM	65957

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203016

Date Reported: 3/23/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 257-02

**Project:** Sunset Dairy

**Collection Date:** 2/28/2022 2:40:00 PM

**Lab ID:** 2203016-002

**Matrix:** GROUNDWA

**Received Date:** 3/1/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	600	50	*	mg/L	100	3/2/2022 12:27:37 PM	R86219
Sulfate	420	50	*	mg/L	100	3/2/2022 12:27:37 PM	R86219
Nitrate+Nitrite as N	9.4	1.0		mg/L	5	3/11/2022 1:12:57 PM	R86442
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2440	40.0	*D	mg/L	1	3/8/2022 1:34:00 PM	65954
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/5/2022 8:20:00 AM	65957

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203016

Date Reported: 3/23/2022

**CLIENT:** EA Engineering

**Client Sample ID:** MW-4

**Project:** Sunset Dairy

**Collection Date:** 2/28/2022 3:58:00 PM

**Lab ID:** 2203016-003

**Matrix:** GROUNDWA

**Received Date:** 3/1/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1300	50	*	mg/L	100	3/2/2022 1:19:06 PM	R86219
Sulfate	940	50	*	mg/L	100	3/2/2022 1:19:06 PM	R86219
Nitrate+Nitrite as N	1.3	1.0		mg/L	5	3/11/2022 1:25:22 PM	R86442
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	4150	100	*D	mg/L	1	3/8/2022 1:34:00 PM	65954
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/5/2022 8:20:00 AM	65957

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203016

23-Mar-22

Client: EA Engineering

Project: Sunset Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86219</b>	RunNo: <b>86219</b>								
Prep Date:	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3039048</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86219</b>	RunNo: <b>86219</b>								
Prep Date:	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3039049</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.3	90	110			
Sulfate	9.9	0.50	10.00	0	99.4	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86442</b>	RunNo: <b>86442</b>								
Prep Date:	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049631</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86442</b>	RunNo: <b>86442</b>								
Prep Date:	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049632</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86543</b>	RunNo: <b>86543</b>								
Prep Date:	Analysis Date: <b>3/16/2022</b>	SeqNo: <b>3054394</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86543</b>	RunNo: <b>86543</b>								
Prep Date:	Analysis Date: <b>3/16/2022</b>	SeqNo: <b>3054395</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.5	0.20	3.500	0	101	90	110			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203016

23-Mar-22

Client: EA Engineering

Project: Sunset Dairy

Sample ID: <b>MB-65954</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65954</b>	RunNo: <b>86313</b>								
Prep Date: <b>3/4/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043808</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-65954</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65954</b>	RunNo: <b>86313</b>								
Prep Date: <b>3/4/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043809</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Estimated value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix interference	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203016

23-Mar-22

Client: EA Engineering

Project: Sunset Dairy

Sample ID: <b>MB-65957</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65957</b>	RunNo: <b>86281</b>								
Prep Date: <b>3/4/2022</b>	Analysis Date: <b>3/5/2022</b>	SeqNo: <b>3042092</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65957</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65957</b>	RunNo: <b>86281</b>								
Prep Date: <b>3/4/2022</b>	Analysis Date: <b>3/5/2022</b>	SeqNo: <b>3042093</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

**Sample Log-In Check List**

Client Name: EA Engineering      Work Order Number: 2203016      RcptNo: 1

Received By: Kasandra Payan      3/1/2022 9:45:00 AM

Completed By: Sean Livingston      3/1/2022 10:12:52 AM

Reviewed By: *jr 3/1/22*

*KP*  
*Sean Livingston*

**Chain of Custody**

1. Is Chain of Custody complete?      Yes       No       Not Present
2. How was the sample delivered?      FedEx

**Log In**

3. Was an attempt made to cool the samples?      Yes       No       NA
4. Were all samples received at a temperature of >0° C to 6.0°C      Yes       No       NA
5. Sample(s) in proper container(s)?      Yes       No
6. Sufficient sample volume for indicated test(s)?      Yes       No
7. Are samples (except VOA and ONG) properly preserved?      Yes       No
8. Was preservative added to bottles?      Yes       No       NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA?      Yes       No       NA
10. Were any sample containers received broken?      Yes       No
11. Does paperwork match bottle labels?      Yes       No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody?      Yes       No
13. Is it clear what analyses were requested?      Yes       No
14. Were all holding times able to be met?      Yes       No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 3  
 (<2 or >12 unless noted)  
 Adjusted? NO  
 Checked by: *KP 3/1/22*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order?      Yes       No       NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good				





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 15, 2022

Regina Mullen

EA Engineering

320 Gold Ave SW Suite 1210

Albuquerque, NM 87102

TEL:

FAX:

RE: Del Oro Dairy

OrderNo.: 2203097

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/2/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203097

Date Reported: 3/15/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 692-02

**Project:** Del Oro Dairy

**Collection Date:** 3/1/2022 11:10:00 AM

**Lab ID:** 2203097-001

**Matrix:** AQUEOUS

**Received Date:** 3/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	300	50	*	mg/L	100	3/2/2022 10:02:46 PM	R86219
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/2/2022 9:50:26 PM	R86219
Nitrogen, Nitrate (As N)	5.0	1.0		mg/L	10	3/2/2022 9:50:26 PM	R86219
Sulfate	140	5.0		mg/L	10	3/2/2022 9:50:26 PM	R86219
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1060	20.0	*	mg/L	1	3/9/2022 6:51:00 PM	66018
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/5/2022 8:20:00 AM	65957

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203097

Date Reported: 3/15/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 692-04

**Project:** Del Oro Dairy

**Collection Date:** 3/1/2022 12:35:00 PM

**Lab ID:** 2203097-002

**Matrix:** AQUEOUS

**Received Date:** 3/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	570	50	*	mg/L	100	3/2/2022 10:28:31 PM	R86219
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/2/2022 10:15:38 PM	R86219
Nitrogen, Nitrate (As N)	29	1.0	*	mg/L	10	3/2/2022 10:15:38 PM	R86219
Sulfate	380	5.0	*	mg/L	10	3/2/2022 10:15:38 PM	R86219
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2460	100	*D	mg/L	1	3/9/2022 6:51:00 PM	66018
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/5/2022 8:20:00 AM	65957

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203097

Date Reported: 3/15/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 692-09

**Project:** Del Oro Dairy

**Collection Date:** 3/1/2022 2:50:00 PM

**Lab ID:** 2203097-003

**Matrix:** AQUEOUS

**Received Date:** 3/2/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	360	50	*	mg/L	100	3/2/2022 10:54:15 PM	R86219
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/2/2022 10:41:23 PM	R86219
Nitrogen, Nitrate (As N)	8.5	1.0		mg/L	10	3/2/2022 10:41:23 PM	R86219
Sulfate	210	5.0		mg/L	10	3/2/2022 10:41:23 PM	R86219
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1460	20.0	*	mg/L	1	3/9/2022 6:51:00 PM	66018
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/5/2022 8:20:00 AM	65957

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203097

15-Mar-22

Client: EA Engineering

Project: Del Oro Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86219</b>	RunNo: <b>86219</b>								
Prep Date:	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3039048</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86219</b>	RunNo: <b>86219</b>								
Prep Date:	Analysis Date: <b>3/2/2022</b>	SeqNo: <b>3039049</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.3	90	110			
Nitrogen, Nitrite (As N)	0.97	0.10	1.000	0	97.1	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.2	90	110			
Sulfate	9.9	0.50	10.00	0	99.4	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203097

15-Mar-22

Client: EA Engineering

Project: Del Oro Dairy

Sample ID: <b>MB-66018</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66018</b>	RunNo: <b>86362</b>								
Prep Date: <b>3/8/2022</b>	Analysis Date: <b>3/9/2022</b>	SeqNo: <b>3045880</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66018</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66018</b>	RunNo: <b>86362</b>								
Prep Date: <b>3/8/2022</b>	Analysis Date: <b>3/9/2022</b>	SeqNo: <b>3045881</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1040	20.0	1000	0	104	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203097

15-Mar-22

Client: EA Engineering

Project: Del Oro Dairy

Sample ID: <b>MB-65957</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65957</b>	RunNo: <b>86281</b>								
Prep Date: <b>3/4/2022</b>	Analysis Date: <b>3/5/2022</b>	SeqNo: <b>3042092</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65957</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65957</b>	RunNo: <b>86281</b>								
Prep Date: <b>3/4/2022</b>	Analysis Date: <b>3/5/2022</b>	SeqNo: <b>3042093</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

Sample ID: <b>2203097-003AMS</b>	SampType: <b>MS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>692-09</b>	Batch ID: <b>65957</b>	RunNo: <b>86281</b>								
Prep Date: <b>3/4/2022</b>	Analysis Date: <b>3/5/2022</b>	SeqNo: <b>3042105</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.8	1.0	10.00	0	98.0	75	125			

Sample ID: <b>2203097-003AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>692-09</b>	Batch ID: <b>65957</b>	RunNo: <b>86281</b>								
Prep Date: <b>3/4/2022</b>	Analysis Date: <b>3/5/2022</b>	SeqNo: <b>3042106</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.5	1.0	10.00	0	95.2	75	125	2.90	20	

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Estimated value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix interference	



Hall Environmental Analysis Laboratory  
 4901 Hawkins NE  
 Albuquerque, NM 87109  
 TEL: 505-345-3975 FAX: 505-345-4107  
 Website: clients.hallenvironmental.com

# Sample Log-In Check List

Client Name: EA Engineering

Work Order Number: 2203097

RcptNo: 1

Received By: Cheyenne Cason 3/2/2022 9:30:00 AM

*Check*

Completed By: Tracy Casarrubias 3/2/2022 11:30:54 AM

Reviewed By: *jan 3/2/22*

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? FedEx

### Log In

3. Was an attempt made to cool the samples? Yes  No  NA   
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 5. Sample(s) in proper container(s)? Yes  No   
 6. Sufficient sample volume for indicated test(s)? Yes  No   
 7. Are samples (except VOA and ONG) properly preserved? Yes  No   
 8. Was preservative added to bottles? Yes  No  NA   
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA   
 10. Were any sample containers received broken? Yes  No   
 11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 12. Are matrices correctly identified on Chain of Custody? Yes  No   
 13. Is it clear what analyses were requested? Yes  No   
 14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: (3)  
 (<2 or >12 unless noted)  
 Adjusted? no  
 Checked by CWC 3/2/22

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

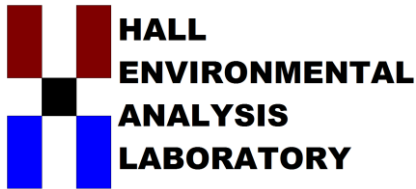
16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Not Present			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 22, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX

RE: Del Oro Dairy

OrderNo.: 2203237

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/3/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203237

Date Reported: 3/22/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 692-05

**Project:** Del Oro Dairy

**Collection Date:** 3/2/2022 10:10:00 AM

**Lab ID:** 2203237-001

**Matrix:** AQUEOUS

**Received Date:** 3/3/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	400	50	*	mg/L	100	3/4/2022 3:38:29 AM	R86224
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/4/2022 3:26:04 AM	R86224
Nitrogen, Nitrate (As N)	16	1.0	*	mg/L	10	3/4/2022 3:26:04 AM	R86224
Sulfate	270	5.0	*	mg/L	10	3/4/2022 3:26:04 AM	R86224
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1550	40.0	*D	mg/L	1	3/10/2022 2:14:00 PM	66053
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/8/2022 10:31:00 AM	65990

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203237

Date Reported: 3/22/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 692-06

**Project:** Del Oro Dairy

**Collection Date:** 3/2/2022 11:55:00 AM

**Lab ID:** 2203237-002

**Matrix:** AQUEOUS

**Received Date:** 3/3/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	400	50	*	mg/L	100	3/4/2022 4:03:17 AM	R86224
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/4/2022 3:50:53 AM	R86224
Nitrogen, Nitrate (As N)	3.7	1.0		mg/L	10	3/4/2022 3:50:53 AM	R86224
Sulfate	200	5.0		mg/L	10	3/4/2022 3:50:53 AM	R86224
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1380	40.0	*D	mg/L	1	3/10/2022 2:14:00 PM	66053
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/8/2022 10:31:00 AM	65990

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203237

Date Reported: 3/22/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 692-07

**Project:** Del Oro Dairy

**Collection Date:** 3/2/2022 2:20:00 PM

**Lab ID:** 2203237-003

**Matrix:** AQUEOUS

**Received Date:** 3/3/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	510	50	*	mg/L	100	3/4/2022 4:28:06 AM	R86224
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/4/2022 4:15:42 AM	R86224
Nitrogen, Nitrate (As N)	2.5	1.0		mg/L	10	3/4/2022 4:15:42 AM	R86224
Sulfate	200	5.0		mg/L	10	3/4/2022 4:15:42 AM	R86224
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1530	100	*D	mg/L	1	3/10/2022 2:14:00 PM	66053
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/8/2022 10:31:00 AM	65990

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203237

Date Reported: 3/22/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 692-08

**Project:** Del Oro Dairy

**Collection Date:** 3/2/2022 4:35:00 PM

**Lab ID:** 2203237-004

**Matrix:** AQUEOUS

**Received Date:** 3/3/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	390	50	*	mg/L	100	3/4/2022 4:52:54 AM	R86224
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/4/2022 4:40:30 AM	R86224
Nitrogen, Nitrate (As N)	5.0	1.0		mg/L	10	3/4/2022 4:40:30 AM	R86224
Sulfate	190	5.0		mg/L	10	3/4/2022 4:40:30 AM	R86224
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1370	20.0	*	mg/L	1	3/10/2022 2:14:00 PM	66053
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/8/2022 10:31:00 AM	65990

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203237

22-Mar-22

**Client:** EA Engineering  
**Project:** Del Oro Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86224</b>	RunNo: <b>86224</b>								
Prep Date:	Analysis Date: <b>3/3/2022</b>	SeqNo: <b>3040704</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86224</b>	RunNo: <b>86224</b>								
Prep Date:	Analysis Date: <b>3/3/2022</b>	SeqNo: <b>3040705</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.4	90	110			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	102	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	103	90	110			
Sulfate	9.6	0.50	10.00	0	96.2	90	110			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203237

22-Mar-22

**Client:** EA Engineering  
**Project:** Del Oro Dairy

Sample ID: <b>MB-66053</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66053</b>	RunNo: <b>86390</b>								
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047071</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66053</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66053</b>	RunNo: <b>86390</b>								
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047072</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Sample ID: <b>2203237-004ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>692-08</b>	Batch ID: <b>66053</b>	RunNo: <b>86390</b>								
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047091</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1370	20.0						0.219	10	*

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203237

22-Mar-22

**Client:** EA Engineering  
**Project:** Del Oro Dairy

Sample ID: <b>MB-65990</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>65990</b>	RunNo: <b>86319</b>								
Prep Date: <b>3/7/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043961</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-65990</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>65990</b>	RunNo: <b>86319</b>								
Prep Date: <b>3/7/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043962</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	80	120			

Sample ID: <b>2203237-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>692-06</b>	Batch ID: <b>65990</b>	RunNo: <b>86319</b>								
Prep Date: <b>3/7/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043966</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.5	1.0	10.00	0	95.2	75	125			

Sample ID: <b>2203237-002AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>692-06</b>	Batch ID: <b>65990</b>	RunNo: <b>86319</b>								
Prep Date: <b>3/7/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3043967</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.9	1.0	10.00	0	99.4	75	125	4.32	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



# Sample Log-In Check List

Client Name: EA Engineering

Work Order Number: 2203237

RcptNo: 1

Received By: Tracy Casarrubias 3/3/2022 9:55:00 AM

Completed By: Tracy Casarrubias 3/3/2022 11:59:45 AM

Reviewed By: *OC* 3/3/22

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Samples Not Frozen  
 Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 4  
 (<2 or >12 unless noted)  
 Adjusted? NO  
 Checked by: TMC 3/3/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.7	Good	Not Present			





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 25, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Dona Ana Dairies

OrderNo.: 2203335

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/4/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203335

Date Reported: 3/25/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-01

**Project:** Dona Ana Dairies

**Collection Date:** 3/3/2022 11:52:00 AM

**Lab ID:** 2203335-001

**Matrix:** GROUNDWA

**Received Date:** 3/4/2022 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	420	50	*	mg/L	100	3/4/2022 7:17:45 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/4/2022 7:05:25 PM
Nitrogen, Nitrate (As N)	20	1.0	*	mg/L	10	3/4/2022 7:05:25 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>CJS</b>
Total Dissolved Solids	1750	40.0	*D	mg/L	1	3/11/2022 3:36:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>CJS</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/11/2022 3:23:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference

- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** EA Engineering**Client Sample ID:** DAD-12**Project:** Dona Ana Dairies**Collection Date:** 3/3/2022 2:05:00 PM**Lab ID:** 2203335-002**Matrix:** GROUNDWA**Received Date:** 3/4/2022 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	950	50	*	mg/L	100	3/4/2022 7:42:27 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/4/2022 7:30:06 PM
Nitrogen, Nitrate (As N)	12	1.0	*	mg/L	10	3/4/2022 7:30:06 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>CJS</b>
Total Dissolved Solids	3240	40.0	*D	mg/L	1	3/11/2022 3:36:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>CJS</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/11/2022 3:23:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** EA Engineering**Client Sample ID:** DAD-13**Project:** Dona Ana Dairies**Collection Date:** 3/3/2022 3:25:00 PM**Lab ID:** 2203335-003**Matrix:** GROUNDWA**Received Date:** 3/4/2022 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	740	50	*	mg/L	100	3/4/2022 8:31:51 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/4/2022 8:19:30 PM
Nitrogen, Nitrate (As N)	9.0	1.0		mg/L	10	3/4/2022 8:19:30 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>CJS</b>
Total Dissolved Solids	2500	40.0	*D	mg/L	1	3/11/2022 3:36:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>CJS</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/11/2022 3:23:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203335

25-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86272</b>	RunNo: <b>86272</b>								
Prep Date:	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3042009</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86272</b>	RunNo: <b>86272</b>								
Prep Date:	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3042010</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.9	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	97.6	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	100	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203335

25-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66093</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66093</b>	RunNo: <b>86422</b>								
Prep Date: <b>3/10/2022</b>	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3048802</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66093</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66093</b>	RunNo: <b>86422</b>								
Prep Date: <b>3/10/2022</b>	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3048803</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	100	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203335

25-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66095</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66095</b>	RunNo: <b>86438</b>								
Prep Date: <b>3/10/2022</b>	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049608</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66095</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66095</b>	RunNo: <b>86438</b>								
Prep Date: <b>3/10/2022</b>	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049609</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0	101	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2203335

RcptNo: 1

Received By: Juan Rojas

3/4/2022 9:00:00 AM

*Juan Rojas*

Completed By: Tracy Casarrubias

3/4/2022 11:32:02 AM

Reviewed By: *JO*

*3.4.22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: (3)  
 (<2 or >12 unless noted)  
 Adjusted? no  
 Checked by: Cmc 3/4/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Not Present			





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 21, 2022

Regina Mullen

EA Engineering

320 Gold Ave SW Suite 1210

Albuquerque, NM 87102

TEL:

FAX:

RE: Big Sky Dairy

OrderNo.: 2203675

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/11/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203675

Date Reported: 3/21/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 833-08

**Project:** Big Sky Dairy

**Collection Date:** 3/10/2022 10:10:00 AM

**Lab ID:** 2203675-001

**Matrix:** AQUEOUS

**Received Date:** 3/11/2022 9:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1600	50	*	mg/L	100	3/11/2022 2:50:20 PM	R86436
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/11/2022 1:58:21 PM	R86436
Nitrogen, Nitrate (As N)	45	1.0	*	mg/L	10	3/11/2022 1:58:21 PM	R86436
Sulfate	600	50	*	mg/L	100	3/11/2022 2:50:20 PM	R86436
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	4200	40.0	*D	mg/L	1	3/18/2022 10:53:00 AM	66181
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/18/2022 10:16:00 AM	66248

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203675

Date Reported: 3/21/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 833-05

**Project:** Big Sky Dairy

**Collection Date:** 3/10/2022 11:30:00 AM

**Lab ID:** 2203675-002

**Matrix:** AQUEOUS

**Received Date:** 3/11/2022 9:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1200	50	*	mg/L	100	3/11/2022 4:07:06 PM	R86436
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/11/2022 3:54:14 PM	R86436
Nitrogen, Nitrate (As N)	45	1.0	*	mg/L	10	3/11/2022 3:54:14 PM	R86436
Sulfate	520	50	*	mg/L	100	3/11/2022 4:07:06 PM	R86436
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3490	40.0	*D	mg/L	1	3/18/2022 10:53:00 AM	66181
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/18/2022 10:16:00 AM	66248

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203675

Date Reported: 3/21/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 833-07

**Project:** Big Sky Dairy

**Collection Date:** 3/10/2022 2:07:00 PM

**Lab ID:** 2203675-003

**Matrix:** AQUEOUS

**Received Date:** 3/11/2022 9:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1100	50	*	mg/L	100	3/11/2022 4:32:49 PM	R86436
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/11/2022 4:19:58 PM	R86436
Nitrogen, Nitrate (As N)	66	10	*	mg/L	100	3/11/2022 4:32:49 PM	R86436
Sulfate	590	50	*	mg/L	100	3/11/2022 4:32:49 PM	R86436
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	3580	40.0	*D	mg/L	1	3/18/2022 10:53:00 AM	66181
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/18/2022 10:16:00 AM	66248

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203675

Date Reported: 3/21/2022

**CLIENT:** EA Engineering

**Client Sample ID:** 833-09

**Project:** Big Sky Dairy

**Collection Date:** 3/10/2022 3:22:00 PM

**Lab ID:** 2203675-004

**Matrix:** AQUEOUS

**Received Date:** 3/11/2022 9:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	910	50	*	mg/L	100	3/11/2022 4:58:35 PM	R86436
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/11/2022 4:45:43 PM	R86436
Nitrogen, Nitrate (As N)	120	10	*	mg/L	100	3/11/2022 4:58:35 PM	R86436
Sulfate	830	50	*	mg/L	100	3/11/2022 4:58:35 PM	R86436
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	4160	40.0	*D	mg/L	1	3/18/2022 10:53:00 AM	66181
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/18/2022 10:16:00 AM	66248

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203675

21-Mar-22

Client: EA Engineering

Project: Big Sky Dairy

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86436</b>	RunNo: <b>86436</b>								
Prep Date:	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049547</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86436</b>	RunNo: <b>86436</b>								
Prep Date:	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049548</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.7	90	110			
Nitrogen, Nitrite (As N)	0.99	0.10	1.000	0	98.9	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Sulfate	10	0.50	10.00	0	101	90	110			

Sample ID: <b>2203675-001AMS</b>	SampType: <b>ms</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>833-08</b>	Batch ID: <b>R86436</b>	RunNo: <b>86436</b>								
Prep Date:	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049557</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	9.2	1.0	10.00	0	91.6	83.4	105			
Nitrogen, Nitrate (As N)	71	1.0	25.00	45.14	105	93.5	110			

Sample ID: <b>2203675-001AMSD</b>	SampType: <b>msd</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>833-08</b>	Batch ID: <b>R86436</b>	RunNo: <b>86436</b>								
Prep Date:	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049558</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	9.1	1.0	10.00	0	90.9	83.4	105	0.734	20	
Nitrogen, Nitrate (As N)	71	1.0	25.00	45.14	102	93.5	110	1.11	20	

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Estimated value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix interference	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203675

21-Mar-22

Client: EA Engineering

Project: Big Sky Dairy

Sample ID: <b>MB-66181</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66181</b>	RunNo: <b>86569</b>								
Prep Date: <b>3/16/2022</b>	Analysis Date: <b>3/18/2022</b>	SeqNo: <b>3055374</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66181</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66181</b>	RunNo: <b>86569</b>								
Prep Date: <b>3/16/2022</b>	Analysis Date: <b>3/18/2022</b>	SeqNo: <b>3055375</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1050	20.0	1000	0	105	80	120			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Estimated value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix interference	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203675

21-Mar-22

Client: EA Engineering

Project: Big Sky Dairy

Sample ID: <b>MB-66248</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66248</b>	RunNo: <b>86574</b>								
Prep Date: <b>3/17/2022</b>	Analysis Date: <b>3/18/2022</b>	SeqNo: <b>3055683</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66248</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66248</b>	RunNo: <b>86574</b>								
Prep Date: <b>3/17/2022</b>	Analysis Date: <b>3/18/2022</b>	SeqNo: <b>3055684</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.7	1.0	10.00	0	96.6	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2203675

RcptNo: 1

Received By: Kasandra Payan

3/11/2022 9:34:00 AM

*K/P*

Completed By: Tracy Casarrubias

3/11/2022 9:54:00 AM

Reviewed By: *CAC*

*3/11/22*

Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

Log In

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Samples not Frozen  
Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
(If no, notify customer for authorization.)

# of preserved bottles checked for pH: 4  
 Adjusted? NO  
 Checked by: KPG 3/11/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.6	Good	Not Present			

# Chain-of-Custody Record

Client: EA Engineering, Science, and Technology

Mailing Address: 320 Gold Ave SW Suite

Phone #: 505-715-4279

email or Fax#: rrmullen@east.com

QA/QC Package:  Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance  NELAC  Other

EDD (Type)

Turn-Around Time:  Standard  Rush

Project #: Big Sky Dairy

Project Manager: Gina Mullen

Sampler: Angel Nieto Rivera

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): -0.6 -0.6

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3-10	10:10	GW	833-08	2		2203675
3-10	10:30	GW	833-05	2		001
3-10	14:07	GW	833-07	2		003
3-10	15:22	GW	833-09	2		004

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3-10	13:00	<i>RM</i>	<i>AN</i>	Fedex	3/11/22	9:34

Remarks:																			



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107  
**Analysis Request**

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 28, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX

RE: Dona Ana Dairies

OrderNo.: 2203854

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/16/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203854

Date Reported: 3/28/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-11

**Project:** Dona Ana Dairies

**Collection Date:** 3/15/2022 11:20:00 AM

**Lab ID:** 2203854-001

**Matrix:** GROUNDWA

**Received Date:** 3/16/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	640	50	*	mg/L	100	3/16/2022 3:49:54 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/16/2022 3:12:51 PM
Nitrogen, Nitrate (As N)	11	1.0	*	mg/L	10	3/16/2022 3:12:51 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2850	20.0	*	mg/L	1	3/23/2022 11:39:00 AM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/24/2022 10:22:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203854

Date Reported: 3/28/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-14

**Project:** Dona Ana Dairies

**Collection Date:** 3/15/2022 12:45:00 PM

**Lab ID:** 2203854-002

**Matrix:** GROUNDWA

**Received Date:** 3/16/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	620	50	*	mg/L	100	3/16/2022 4:14:35 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/16/2022 4:02:14 PM
Nitrogen, Nitrate (As N)	17	1.0	*	mg/L	10	3/16/2022 4:02:14 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2670	100	*D	mg/L	1	3/23/2022 11:39:00 AM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/24/2022 10:22:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank  
 E Estimated value  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit



**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** EA Engineering**Client Sample ID:** DAD-23**Project:** Dona Ana Dairies**Collection Date:** 3/15/2022 3:00:00 PM**Lab ID:** 2203854-003**Matrix:** GROUNDWA**Received Date:** 3/16/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	620	50	*	mg/L	100	3/16/2022 4:39:17 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/16/2022 4:26:55 PM
Nitrogen, Nitrate (As N)	15	1.0	*	mg/L	10	3/16/2022 4:26:55 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2550	200	*D	mg/L	1	3/23/2022 11:39:00 AM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/24/2022 10:22:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203854

28-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86543</b>	RunNo: <b>86543</b>								
Prep Date:	Analysis Date: <b>3/16/2022</b>	SeqNo: <b>3054394</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86543</b>	RunNo: <b>86543</b>								
Prep Date:	Analysis Date: <b>3/16/2022</b>	SeqNo: <b>3054395</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	4.8	0.50	5.000	0	95.7	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	98.5	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	103	90	110			

Sample ID: <b>2203854-001AMS</b>	SampType: <b>ms</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>DAD-11</b>	Batch ID: <b>R86543</b>	RunNo: <b>86543</b>								
Prep Date:	Analysis Date: <b>3/16/2022</b>	SeqNo: <b>3054418</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	8.8	1.0	10.00	0	88.3	83.4	105			
Nitrogen, Nitrate (As N)	36	1.0	25.00	11.02	99.4	93.5	110			

Sample ID: <b>2203854-001AMSD</b>	SampType: <b>msd</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>DAD-11</b>	Batch ID: <b>R86543</b>	RunNo: <b>86543</b>								
Prep Date:	Analysis Date: <b>3/16/2022</b>	SeqNo: <b>3054419</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	8.9	1.0	10.00	0	89.3	83.4	105	1.16	20	
Nitrogen, Nitrate (As N)	37	1.0	25.00	11.02	102	93.5	110	1.89	20	

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203854

28-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66294</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66294</b>	RunNo: <b>86672</b>								
Prep Date: <b>3/21/2022</b>	Analysis Date: <b>3/23/2022</b>	SeqNo: <b>3060074</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66294</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66294</b>	RunNo: <b>86672</b>								
Prep Date: <b>3/21/2022</b>	Analysis Date: <b>3/23/2022</b>	SeqNo: <b>3060075</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1070	20.0	1000	0	107	80	120			

Sample ID: <b>2203854-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>DAD-11</b>	Batch ID: <b>66294</b>	RunNo: <b>86672</b>								
Prep Date: <b>3/21/2022</b>	Analysis Date: <b>3/23/2022</b>	SeqNo: <b>3060077</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2850	20.0						0.0702	10	*

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203854

28-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66347</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66347</b>	RunNo: <b>86711</b>								
Prep Date: <b>3/23/2022</b>	Analysis Date: <b>3/24/2022</b>	SeqNo: <b>3061504</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66347</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66347</b>	RunNo: <b>86711</b>								
Prep Date: <b>3/23/2022</b>	Analysis Date: <b>3/24/2022</b>	SeqNo: <b>3061505</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.7	1.0	10.00	0	96.6	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

**Sample Log-In Check List**

Client Name: EA Engineering

Work Order Number: 2203854

RcptNo: 1

Received By: Sean Livingston 3/16/2022 9:00:00 AM

*Sean Livingston*

Completed By: Tracy Casarrubias 3/16/2022 11:06:58 AM

Reviewed By: *KPA 3/16/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA   
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 5. Sample(s) in proper container(s)? Yes  No   
 6. Sufficient sample volume for indicated test(s)? Yes  No   
 7. Are samples (except VOA and ONG) properly preserved? Yes  No   
 8. Was preservative added to bottles? Yes  No  NA   
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA   
 10. Were any sample containers received broken? Yes  No   
 11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 12. Are matrices correctly identified on Chain of Custody? Yes  No   
 13. Is it clear what analyses were requested? Yes  No   
 14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 3  
 (<2 or >12 unless noted)

Adjusted? no

Checked by: sa 3/16/22

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.2	Good	Not Present			





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 29, 2022

Regina Mullen  
EA Engineering  
320 Gold Ave SW Suite 1210  
Albuquerque, NM 87102  
TEL:  
FAX:

RE: Dona Ana Dairies

OrderNo.: 2203938

Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/17/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203938

Date Reported: 3/29/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-02

**Project:** Dona Ana Dairies

**Collection Date:** 3/16/2022 10:55:00 AM

**Lab ID:** 2203938-001

**Matrix:** GROUNDWA

**Received Date:** 3/17/2022 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	300	50	*	mg/L	100	3/17/2022 4:33:21 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/17/2022 4:20:56 PM
Nitrogen, Nitrate (As N)	8.8	1.0		mg/L	10	3/17/2022 4:20:56 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	1230	40.0	*D	mg/L	1	3/24/2022 5:38:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/28/2022 1:40:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203938

Date Reported: 3/29/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-03

**Project:** Dona Ana Dairies

**Collection Date:** 3/16/2022 11:50:00 AM

**Lab ID:** 2203938-002

**Matrix:** GROUNDWA

**Received Date:** 3/17/2022 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	330	50	*	mg/L	100	3/17/2022 5:23:01 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/17/2022 5:10:36 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/17/2022 5:10:36 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2070	200	*D	mg/L	1	3/24/2022 5:38:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/28/2022 1:40:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203938

Date Reported: 3/29/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-04

**Project:** Dona Ana Dairies

**Collection Date:** 3/16/2022 1:15:00 PM

**Lab ID:** 2203938-003

**Matrix:** GROUNDWA

**Received Date:** 3/17/2022 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	500	50	*	mg/L	100	3/17/2022 5:47:50 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/17/2022 5:35:25 PM
Nitrogen, Nitrate (As N)	2.3	1.0		mg/L	10	3/17/2022 5:35:25 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2510	40.0	*D	mg/L	1	3/24/2022 5:38:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	1.3	1.0		mg/L	1	3/28/2022 1:40:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203938

Date Reported: 3/29/2022

**CLIENT:** EA Engineering

**Client Sample ID:** DAD-16

**Project:** Dona Ana Dairies

**Collection Date:** 3/16/2022 2:53:00 PM

**Lab ID:** 2203938-004

**Matrix:** GROUNDWA

**Received Date:** 3/17/2022 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	490	50	*	mg/L	100	3/17/2022 6:12:40 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/17/2022 6:00:15 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/17/2022 6:00:15 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	2100	40.0	*D	mg/L	1	3/24/2022 5:38:00 PM
<b>SM 4500 NORG C: TKN</b>						Analyst: <b>EKM</b>
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/28/2022 1:40:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank  
 E Estimated value  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203938

29-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86579</b>	RunNo: <b>86579</b>								
Prep Date:	Analysis Date: <b>3/17/2022</b>	SeqNo: <b>3055837</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86579</b>	RunNo: <b>86579</b>								
Prep Date:	Analysis Date: <b>3/17/2022</b>	SeqNo: <b>3055838</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.3	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	98.3	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203938

29-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66350</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66350</b>	RunNo: <b>86728</b>								
Prep Date: <b>3/23/2022</b>	Analysis Date: <b>3/24/2022</b>	SeqNo: <b>3062125</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-66350</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66350</b>	RunNo: <b>86728</b>								
Prep Date: <b>3/23/2022</b>	Analysis Date: <b>3/24/2022</b>	SeqNo: <b>3062126</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203938

29-Mar-22

**Client:** EA Engineering  
**Project:** Dona Ana Dairies

Sample ID: <b>MB-66405</b>	SampType: <b>MBLK</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>PBW</b>	Batch ID: <b>66405</b>	RunNo: <b>86787</b>								
Prep Date: <b>3/25/2022</b>	Analysis Date: <b>3/28/2022</b>	SeqNo: <b>3064556</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: <b>LCS-66405</b>	SampType: <b>LCS</b>	TestCode: <b>SM 4500 Norg C: TKN</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>66405</b>	RunNo: <b>86787</b>								
Prep Date: <b>3/25/2022</b>	Analysis Date: <b>3/28/2022</b>	SeqNo: <b>3064557</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.8	1.0	10.00	0	98.0	80	120			

**Qualifiers:**

- |  |   |
|--|---|
| * Value exceeds Maximum Contaminant Level.                           | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                                       | E Estimated value                                 |
| H Holding times for preparation or analysis exceeded                 | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                               | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                                     | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix interference |   |

# Sample Log-In Check List

Client Name: EA Engineering

Work Order Number: 2203938

RcptNo: 1

Received By: Juan Rojas 3/17/2022 9:00:00 AM *Juan Rojas*

Completed By: Desiree Dominguez 3/17/2022 9:43:36 AM *DD*

Reviewed By: *JR 3/17/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? FedEx

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
5. Sample(s) in proper container(s)? Yes  No
6. Sufficient sample volume for indicated test(s)? Yes  No
7. Are samples (except VOA and ONG) properly preserved? Yes  No
8. Was preservative added to bottles? Yes  No  NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
10. Were any sample containers received broken? Yes  No
11. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes  No
13. Is it clear what analyses were requested? Yes  No
14. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: *KPA 3/17/22*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good				

