

APPENDIX A

**DEL ORO DAIRY PUMP AND REUSE SYSTEM PERFORMANCE
ASSESSMENT**

APPENDIX A
PUMP AND REUSE SYSTEM PERFORMANCE ASSESSMENT
DEL ORO DAIRY, ANTHONY, NEW MEXICO
AUGUST 2024

This quarterly performance assessment of the Del Oro Pump and Reuse System has been prepared in compliance with the Stage 2 Abatement Plan (S2AP) Modification Performance Plan (EA Engineering, Science, and Technology, Inc., PBC [EA] 2022). Note that references are included in the main document text.

The performance assessment evaluates pumping rates, total volume pumped, mass removed, and plume capture by the five extraction wells installed along the downgradient perimeter of the Del Oro Dairy property. A site background summary is included in the main report.

Pump and Reuse System

The pump and reuse system is shown in plan view on Figure A-1. The system consists of:

- Five, 4-inch diameter groundwater extraction wells completed in the perched aquifer (EW-01 through EW-05). The submerged screens in each well were installed at 14 to 15 feet below the water table, representing the perched aquifer thickness (water table to confining clay).
- Five submersible solar groundwater pumps supplied by Rural Pumping Systems, complete with controllers and 4 x 100-Watt (400 Watt total) solar panels installed at each well head.
- Well head completions consisting of valves, flow meters, sample ports, and steel pipe fence and bollards to isolate from cattle.
- Main conveyance line consisting of 1.5-inch diameter high density polyethylene (HDPE) pipe connecting the extraction wells to HDPE storage tanks located at the milking parlor.
- Two 6,000 HDPE storage tanks plumbed in parallel.
- Transfer pump and pressure tank for delivery to the milking parlor.

A process flow diagram of the system is provided as Drawing P-1.

Quarterly Performance Assessment

Wells were installed and sampled in October 2022. Startup testing for the pumping system began in late December 2022 following pump and solar panel installation. After several iterations of troubleshooting, all pumps were pumping at capacity by April 2023 except for extraction well EW-3. The pump in this well is not functioning properly and samples have not been collected since February 2023; however, permeability at well EW-3 is an order of magnitude less than the other wells and has limited potential to contribute to nitrate mass removal of the system. Its omission from the well network is not expected to negatively impact system efficacy. The pumps in extraction wells EW-4 and EW-5 were not working properly since April 2024 and November 2023, respectively. The

pumps were repaired in June 2024. Del Oro Dairy performs weekly meter reading and relays data to EA for record keeping and reporting.

Performance assessment will be used to evaluate average pumping rates, mass removal of nitrate, and plume capture by the five extraction wells. The performance assessment consists of three components: 1) tracking and reporting of extracted groundwater volume, 2) collection of groundwater samples from extraction wells and analysis of mass removal, and 3) capture analysis.

Extracted Groundwater Volume

Totalizing flow meters measure the volume of extracted groundwater from each extraction well as reported in Table A1. The aggregate volume of water pumped from operating wells is also measured at the storage tanks with a totalizing meter located just before outfall into the storage tanks. Weekly liquid depth measurements for the Del Oro lagoon cells (ultimate destination of extraction water) are provided in Attachment 1. Stable liquid levels in the lagoon cells indicate that extracted groundwater that is used to wash down the milking parlor and then is transported to the lagoons for disposal does not exceed the capacity of the lagoons.

Groundwater Sampling Results and Trends

The highest nitrate, chloride, and TDS concentrations detected this quarter were in EW-01 at relative concentrations of 190 milligrams per liter (mg/L), 1,200 mg/L and 4,700 mg/L. Since system startup in December 2022, nitrate concentrations initially decreased and then increased in EW-01 but appear to have stabilized, nitrate concentrations have increased slightly in EW-05 and decreased or remained the same in EW-02 and EW-04. Chloride has increased in EW-01 and EW-05 since startup. Chloride has decreased in EW-02 and remained somewhat stable in EW-04. Since system startup, TDS concentrations initially decreased, but then increased in EW-01 and EW-02. TDS has remained relatively stable in EW-04 and EW-05. Nitrate, chloride, and total dissolved solids (TDS) concentration trends for downgradient and key monitoring wells are provided in Attachment 3.

Nitrate Mass Removal

Groundwater samples are collected from each extraction well quarterly on the abatement plan monitoring schedule. Analytical results for extraction well samples collected in June 2024 are provided in Table A2 and laboratory reports are provided in Attachment 2.

Nitrate mass removal rates are the product of flow rate and chemical concentrations, which yield total mass removed per quarter. The nitrate mass removed this quarter was 279.2 pounds. Cumulative mass removed since startup is 1,689 pounds. A summary of nitrate mass removal is provided in Table A3.

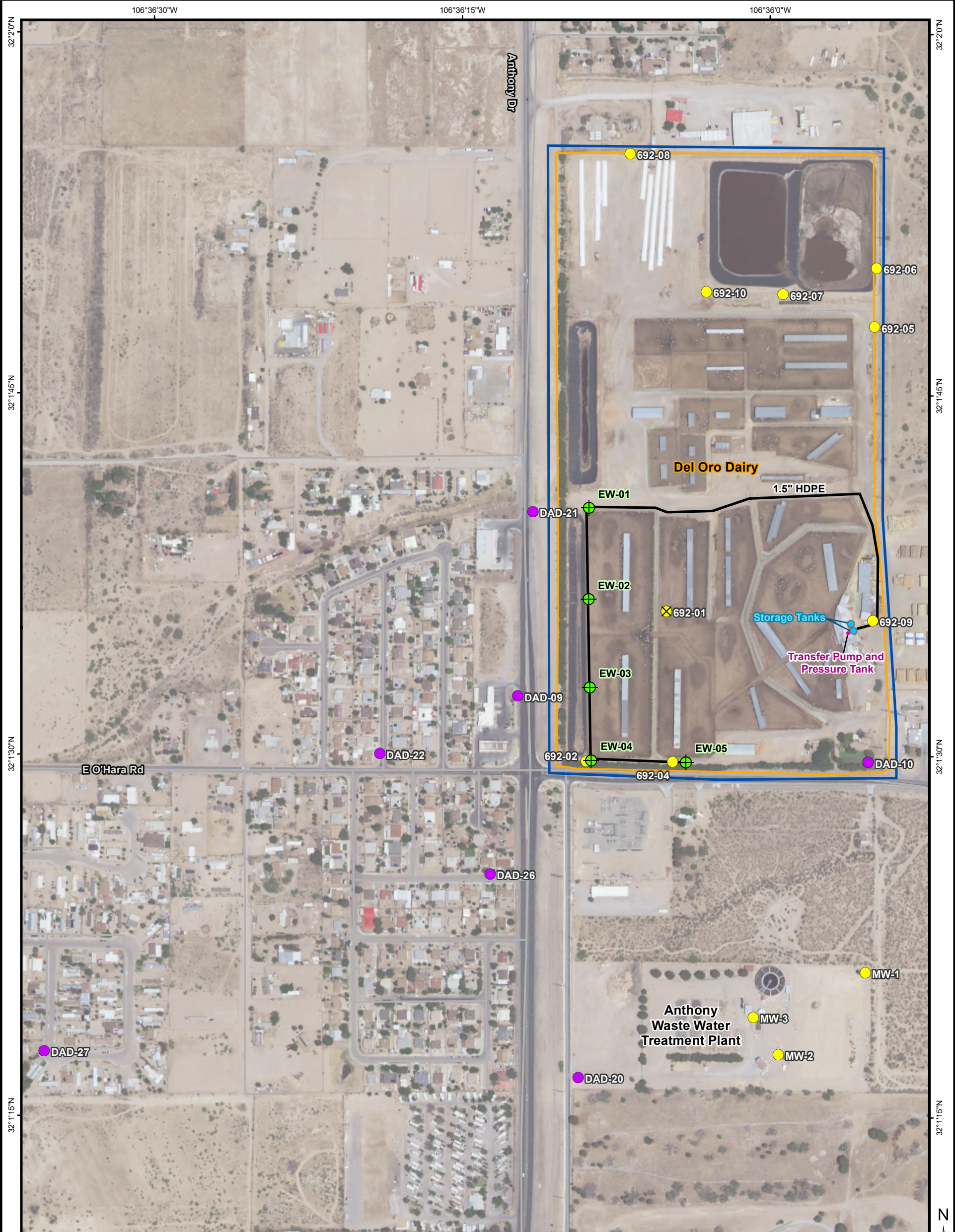
Capture Analysis

Capture analysis is a function of flow rate, permeability (hydraulic conductivity), and hydraulic gradient. Flow rates are measured weekly via flow meters, and hydraulic gradient is calculated from

quarterly water level measurements. Hydraulic conductivity for the perched aquifer was estimated based on observed grain size and typical values. For fine to medium sand, 10^{-2} to 10^{-3} centimeters per second (cm/s) is typical, and this range equates to 27 to 2.7 feet per day (ft/day). Since the sand was logged as “poorly graded fine sand,” permeability was assigned as 10 ft/day in higher yielding wells EW-1, EW-2, EW-4, and EW-5, and 1 ft/day for low yielding well EW-3. Based on these permeabilities and measured flow rates and gradient, the estimated capture width for each well is provided in Table A4. This quarter, there is no capture width in EW-03 due to the low permeability at this location. The capture width in EW-04 and EW-05 were low due to malfunctioning pumps during the beginning of the pumping period. Pumps in EW-04 and EW-05 were repaired in June 2024.

- Attachments:
- Figure A-1 – Extraction System Layout
 - Drawing P-1 – Process Flow Diagram
 - Table A1 – Pumping Volumes and Rates
 - Table A2 – Del Oro Dairy Extraction Well Analytical Results
 - Table A3 – Summary of Nitrate Mass Removal
 - Table A4 – Capture Analysis for Pumping Wells
 - Attachment 1 – Weekly Liquid Depth Measurements for Lagoons
 - Attachment 2 – Analytical Laboratory Reports
 - Attachment 3 – Concentration Trends for Del Oro Extraction Wells and Abatement Plan Monitoring Wells in the Perched Aquifer

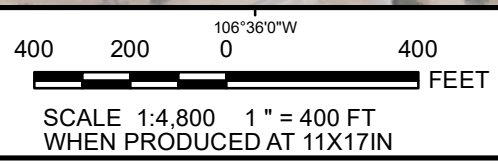
FIGURE A-1 and DRAWING P-1



LEGEND:

- Extraction Well
- Conveyance Line
- Perched Aquifer Monitoring Well**
- Abatement Plan Monitoring Well
- Discharge Plan Monitoring Well
- Discharge Plan Monitoring Well - Plugged and Abandoned
- Regional Aquifer Monitoring Well**
- Abatement Plan Monitoring Well
- Discharge Plan Monitoring Well
- Land Owned by Dairies
- Stage 2 Abatement Plan Area

REFERENCES
 Aerial Photography: NAIP, 2011
 PLSS: BLM, 2000
 Projection: State Plane NAD 83 New Mexico Central (feet)



PROJECT			
DOÑA ANA DAIRIES MESQUITE, NEW MEXICO			
TITLE			
EXTRACTION SYSTEM LAYOUT DEL ORO DAIRY			
	PROJECT No.	14641-13	TASK: 2.1
	DESIGN	NA	SCALE AS SHOWN
	GIS	RM	REV 0
	CHECK		
REVIEW			
			Figure A-1

TABLES

ATTACHMENTS

**ATTACHMENT 1 – WEEKLY LIQUID DEPTH MEASUREMENTS FOR
LAGOONS**

**CAFO Weekly Storage and Containment Structure Inspections
Log Sheet**

Facility Name: Del Oro Dairy

NPDES Permit No.: NMG010026

Storage or Containment Structure: Evaporative Pond (Instructions on back)

2024

Week	Date	Initials	Depth Marker Reading	Notes	Date Corrected
Week 1	1-2/24	ER	9-		
Week 2	1-9-24	ER	9-		
Week 3	1-16-24	ER	9-		
Week 4	1-23-24	ER	9-		
Week 5	1-30-24	ER	9-		
Week 6	2/6/24	ER	9-		
Week 7	2/13/24	ER	9-		
Week 8	2/20/24	ER	9		
Week 9	2/27/24	ER	9		
Week 10	3/5/24	ER	9		
Week 11	3/12/24	ER	9		
Week 12	3/19/24	ER	9		
Week 13	3/26/24	ER	9		
Week 14	4/2/24	ER	9		
Week 15	4/9/24	ER	9		
Week 16	4/16/24	ER	9		
Week 17	4/23/24	ER	9		
Week 18	4/30/24	ER	9		
Week 19	5/7/24	ER	9		
Week 20	5/14/24	ER	9		
Week 21	5/21/24	ER	9		
Week 22	5/28/24	ER	9-		
Week 23	6/4/24	ER	9-		
Week 24	6/11/24	ER	9-		
Week 25	6/18/24	ER	9-		
Week 26	6/25/24	ER	9-		
Week 27	7/2/24	ER	9-		
Week 28	7/9/24	ER	9-		
Week 29	7/16/24				
Week 30	7/23/24				
Week 31	7/30/24				
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**CAFO Weekly Storage and Containment Structure Inspections
Log Sheet**

Facility Name: Del Oro Dairy

NPDES Permit No. NMG010026

2024

Storage or Containment Structure: Evaporative Pond (Instructions on back)

B

Week	Date	Initials	Depth Marker Reading	Notes	Date Corrected
Week 1	1-2-24	ER	6-		
Week 2	1-9-24	ER	6-		
Week 3	1-16-24	ER	6-		
Week 4	1-23-24	ER	6-		
Week 5	1-30-24	ER	6-		
Week 6	2/6-24	ER	6-		
Week 7	2/13/24	ER	6-		
Week 8	2/20/24	ER	6 1/2		
Week 9	2/27/24	ER	6 1/2		
Week 10	3/5/24	ER	6 1/2		
Week 11	3/12/24	ER	6 1/2		
Week 12	3/19/24	ER	7-		
Week 13	3/26/24	ER	7-		
Week 14	4/2/24	ER	7-		
Week 15	4/9/24	ER	7-		
Week 16	4/16/24	ER	7 1/2		
Week 17	4/23/24	ER	7 1/2		
Week 18	4/30/24	ER	7 1/2		
Week 19	5/7/24	ER	7 1/2		
Week 20	5/14/24	ER	7-		
Week 21	5/21/24	ER	7-		
Week 22	5/28/24	ER	7-		
Week 23	6/4/24	ER	7-		
Week 24	6/11/24	ER	6 1/2		
Week 25	6/18/24	ER	6 1/2		
Week 26	6/25/24	ER	6 1/2		
Week 27	7/2/24	ER	6 1/2		
Week 28	7/9/24	ER	6 1/2		
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**CAFO Weekly Storage and Containment Structure Inspections
Log Sheet**

Facility Name: Del Oro Dairy

NRDES Permit No.: NMG010026

Storage or Containment Structure: Runoff Pond (WRP-C) (Instructions on back)

2024

Week	Date	Initials	Depth Marker Reading	Notes	Date Corrected
Week 1	1-2-24	ER	0		
Week 2	1-9-24	ER	0		
Week 3	1-16-24	ER	0		
Week 4	1-23-24	ER	0		
Week 5	1-30-24	ER	0		
Week 6	2/6/24	ER	0		
Week 7	2/13/24	ER	0		
Week 8	2/20/24	ER	0		
Week 9	2/27/24	ER	0		
Week 10	3/5/24	ER	0		
Week 11	3/12/24	ER	0		
Week 12	3/19/24	ER	0		
Week 13	3/26/24	ER	0		
Week 14	4/2/24	ER	0		
Week 15	4/9/24	ER	0		
Week 16	4/16/24	ER	0		
Week 17	4/23/24	ER	0		
Week 18	4/30/24	ER	0		
Week 19	5/7/24	ER	0		
Week 20	5/14/24	ER	0		
Week 21	5/21/24	ER	0		
Week 22	5/28/24	ER	0		
Week 23	6/4/24	ER	0		
Week 24	6/11/24	ER	0		
Week 25	6/18/24	ER	0		
Week 26	6/25/24	ER	0		
Week 27	7/2/24	ER	0		
Week 28	7/9/24	ER	0		
Week 29	7/16/24				
Week 30	7/23/24				
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**CAFO Weekly Storage and Containment Structure Inspections
Log Sheet**

Facility Name: Del Oro Dairy

NPDES Permit No.: NMG010026

2024

Storage or Containment Structure: Runoff Pond (WRP-D) (Instructions on back)

Week	Date	Initials	Depth Marker Reading	Notes	Date Corrected
Week 1	1-27-24	ER	0		
Week 2	1-9-24	ER	0		
Week 3	1-16-24	ER	0		
Week 4	1-23-24	ER	0		
Week 5	1-30-24	ER	0		
Week 6	2/6/24	ER	0		
Week 7	2/13/24	ER	0		
Week 8	2/20/24	ER	0		
Week 9	2/27/24	ER	0		
Week 10	3/5/24	ER	0		
Week 11	3/12/24	ER	0		
Week 12	3/19/24	ER	0		
Week 13	3/26/24	ER	0		
Week 14	4/2/24	ER	0		
Week 15	4/9/24	ER	0		
Week 16	4/16/24	ER	0		
Week 17	4/23/24	ER	0		
Week 18	4/30/24	ER	0		
Week 19	5/7/24	ER	0		
Week 20	5/14/24	ER	0		
Week 21	5/21/24	ER	0		
Week 22	5/28/24	ER	0		
Week 23	6/4/24	ER	0		
Week 24	6/11/24	ER	0		
Week 25	6/18/24	ER	0		
Week 26	6/25/24	ER	0		
Week 27	7/2/24	ER	0		
Week 28	7/9/24	ER	0		
Week 29	7/16/24	ER	0		
Week 30	7/23/24				
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ATTACHMENT 2 – ANALYTICAL LABORATORY REPORTS



ANALYTICAL REPORT

PREPARED FOR

Attn: Regina Mullen
EA Engineering
320 Gold Ave SW
Suite 1210
Albuquerque, New Mexico 87102

Generated 6/17/2024 10:08:35 AM

JOB DESCRIPTION

Del Oro Dairy

JOB NUMBER

885-5610-1

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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6/17/2024 10:08:35 AM

Authorized for release by
Colleen McNamara, Project Manager
colleen.McNamara@et.eurofinsus.com
(505)345-3975



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Definitions/Glossary

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5610-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering
Project: Del Oro Dairy

Job ID: 885-5610-1

Job ID: 885-5610-1

Eurofins Albuquerque

Job Narrative 885-5610-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/5/2024 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

HPLC/IC

Method 300_OF_28D_PREC: Manual integration was performed on the following samples: 692-02 (885-5610-1), EW-04 (885-5610-2), EW-02 (885-5610-3), 692-05 (885-5610-4), (CCB 885-6197/51), (MB 885-6197/4) and (MB 885-6197/56).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-6439 and analytical batch 885-6702 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5610-1

Client Sample ID: 692-02

Lab Sample ID: 885-5610-1

Date Collected: 06/04/24 10:56

Matrix: Water

Date Received: 06/05/24 08:45

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		50	mg/L			06/05/24 23:53	100
Sulfate	310		5.0	mg/L			06/05/24 23:40	10
Nitrate Nitrite as N	33		2.0	mg/L			06/05/24 23:40	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1900		100	mg/L			06/10/24 11:07	1
Nitrogen, Total Kjeldahl (EPA 351.2)	ND	F1	0.50	mg/L		06/10/24 16:46	06/12/24 15:01	1

Client Sample Results

Client: EA Engineering
 Project/Site: Del Oro Dairy

Job ID: 885-5610-1

Client Sample ID: EW-04
Date Collected: 06/04/24 12:38
Date Received: 06/05/24 08:45

Lab Sample ID: 885-5610-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	400		50	mg/L			06/06/24 00:19	100
Sulfate	200		5.0	mg/L			06/06/24 00:06	10
Nitrate Nitrite as N	11		2.0	mg/L			06/06/24 00:06	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		100	mg/L			06/10/24 11:07	1
Nitrogen, Total Kjeldahl (EPA 351.2)	ND		0.50	mg/L		06/10/24 16:46	06/12/24 15:08	1



Client Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5610-1

Client Sample ID: EW-02
Date Collected: 06/04/24 14:30
Date Received: 06/05/24 08:45

Lab Sample ID: 885-5610-3
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	890		50	mg/L			06/06/24 01:36	100
Sulfate	520		50	mg/L			06/06/24 01:36	100
Nitrate Nitrite as N	130		20	mg/L			06/06/24 01:36	100

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3700		250	mg/L			06/10/24 11:07	1
Nitrogen, Total Kjeldahl (EPA 351.2)	ND		0.50	mg/L		06/10/24 16:46	06/12/24 15:10	1

Client Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5610-1

Client Sample ID: 692-05
Date Collected: 06/04/24 15:50
Date Received: 06/05/24 08:45

Lab Sample ID: 885-5610-4
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		50	mg/L			06/06/24 02:27	100
Sulfate	280		5.0	mg/L			06/06/24 02:15	10
Nitrate Nitrite as N	15		2.0	mg/L			06/06/24 02:15	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1600		100	mg/L			06/10/24 11:07	1
Nitrogen, Total Kjeldahl (EPA 351.2)	ND		0.50	mg/L		06/10/24 16:46	06/12/24 15:11	1

QC Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5610-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-6197/4
Matrix: Water
Analysis Batch: 6197

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			06/05/24 13:15	1
Sulfate	ND		0.50	mg/L			06/05/24 13:15	1

Lab Sample ID: MB 885-6197/56
Matrix: Water
Analysis Batch: 6197

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			06/06/24 00:32	1
Sulfate	ND		0.50	mg/L			06/06/24 00:32	1

Lab Sample ID: LCS 885-6197/5
Matrix: Water
Analysis Batch: 6197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.78		mg/L		96	90 - 110
Sulfate	10.0	9.73		mg/L		97	90 - 110

Lab Sample ID: LCS 885-6197/57
Matrix: Water
Analysis Batch: 6197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.82		mg/L		96	90 - 110
Sulfate	10.0	9.77		mg/L		98	90 - 110

Lab Sample ID: MRL 885-6197/3
Matrix: Water
Analysis Batch: 6197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.531		mg/L		106	50 - 150
Sulfate	0.500	0.515		mg/L		103	50 - 150

Lab Sample ID: MB 885-6198/4
Matrix: Water
Analysis Batch: 6198

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			06/05/24 13:15	1

Lab Sample ID: MB 885-6198/56
Matrix: Water
Analysis Batch: 6198

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			06/06/24 00:32	1

Eurofins Albuquerque

QC Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5610-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-6198/5
Matrix: Water
Analysis Batch: 6198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	3.50	3.48		mg/L		99	90 - 110

Lab Sample ID: LCS 885-6198/57
Matrix: Water
Analysis Batch: 6198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	3.50	3.51		mg/L		100	90 - 110

Lab Sample ID: MRL 885-6198/3
Matrix: Water
Analysis Batch: 6198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.200	0.202		mg/L		101	50 - 150

Lab Sample ID: 885-5610-3 MS
Matrix: Water
Analysis Batch: 6198

Client Sample ID: EW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	160		35.0	197	4	mg/L		107	80 - 120

Lab Sample ID: 885-5610-3 MSD
Matrix: Water
Analysis Batch: 6198

Client Sample ID: EW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	160		35.0	193	4	mg/L		96	80 - 120	2	20

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-6380/1
Matrix: Water
Analysis Batch: 6380

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			06/10/24 11:07	1

Lab Sample ID: LCS 885-6380/2
Matrix: Water
Analysis Batch: 6380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1010		mg/L		101	80 - 120

QC Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5610-1

Method: 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 885-5610-4 DU
Matrix: Water
Analysis Batch: 6380

Client Sample ID: 692-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1600		1590		mg/L		1	10

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 885-6439/33-A
Matrix: Water
Analysis Batch: 6702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6439

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Total Kjeldahl	ND		0.50	mg/L		06/10/24 16:46	06/12/24 14:56	1

Lab Sample ID: LCS 885-6439/35-A
Matrix: Water
Analysis Batch: 6702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	9.91	9.90		mg/L		100	90 - 110

Lab Sample ID: LLCS 885-6439/34-A
Matrix: Water
Analysis Batch: 6702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6439

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	0.496	ND		mg/L		90	50 - 150

Lab Sample ID: 885-5610-1 MS
Matrix: Water
Analysis Batch: 6702

Client Sample ID: 692-02
Prep Type: Total/NA
Prep Batch: 6439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	ND	F1	9.91	ND	F1	mg/L		0	90 - 110

Lab Sample ID: 885-5610-1 MSD
Matrix: Water
Analysis Batch: 6702

Client Sample ID: 692-02
Prep Type: Total/NA
Prep Batch: 6439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	F1	9.91	1.66	F1	mg/L		17	90 - 110	NC	20

QC Association Summary

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5610-1

HPLC/IC

Analysis Batch: 6197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5610-1	692-02	Total/NA	Water	300.0	
885-5610-1	692-02	Total/NA	Water	300.0	
885-5610-2	EW-04	Total/NA	Water	300.0	
885-5610-2	EW-04	Total/NA	Water	300.0	
885-5610-3	EW-02	Total/NA	Water	300.0	
885-5610-4	692-05	Total/NA	Water	300.0	
885-5610-4	692-05	Total/NA	Water	300.0	
MB 885-6197/4	Method Blank	Total/NA	Water	300.0	
MB 885-6197/56	Method Blank	Total/NA	Water	300.0	
LCS 885-6197/5	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-6197/57	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-6197/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 6198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5610-1	692-02	Total/NA	Water	300.0	
885-5610-2	EW-04	Total/NA	Water	300.0	
885-5610-3	EW-02	Total/NA	Water	300.0	
885-5610-4	692-05	Total/NA	Water	300.0	
MB 885-6198/4	Method Blank	Total/NA	Water	300.0	
MB 885-6198/56	Method Blank	Total/NA	Water	300.0	
LCS 885-6198/5	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-6198/57	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-6198/3	Lab Control Sample	Total/NA	Water	300.0	
885-5610-3 MS	EW-02	Total/NA	Water	300.0	
885-5610-3 MSD	EW-02	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 6380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5610-1	692-02	Total/NA	Water	2540C	
885-5610-2	EW-04	Total/NA	Water	2540C	
885-5610-3	EW-02	Total/NA	Water	2540C	
885-5610-4	692-05	Total/NA	Water	2540C	
MB 885-6380/1	Method Blank	Total/NA	Water	2540C	
LCS 885-6380/2	Lab Control Sample	Total/NA	Water	2540C	
885-5610-4 DU	692-05	Total/NA	Water	2540C	

Prep Batch: 6439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5610-1	692-02	Total/NA	Water	351.2	
885-5610-2	EW-04	Total/NA	Water	351.2	
885-5610-3	EW-02	Total/NA	Water	351.2	
885-5610-4	692-05	Total/NA	Water	351.2	
MB 885-6439/33-A	Method Blank	Total/NA	Water	351.2	
LCS 885-6439/35-A	Lab Control Sample	Total/NA	Water	351.2	
LLCS 885-6439/34-A	Lab Control Sample	Total/NA	Water	351.2	
885-5610-1 MS	692-02	Total/NA	Water	351.2	
885-5610-1 MSD	692-02	Total/NA	Water	351.2	

Eurofins Albuquerque

QC Association Summary

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5610-1

General Chemistry

Analysis Batch: 6702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5610-1	692-02	Total/NA	Water	351.2	6439
885-5610-2	EW-04	Total/NA	Water	351.2	6439
885-5610-3	EW-02	Total/NA	Water	351.2	6439
885-5610-4	692-05	Total/NA	Water	351.2	6439
MB 885-6439/33-A	Method Blank	Total/NA	Water	351.2	6439
LCS 885-6439/35-A	Lab Control Sample	Total/NA	Water	351.2	6439
LLCS 885-6439/34-A	Lab Control Sample	Total/NA	Water	351.2	6439
885-5610-1 MS	692-02	Total/NA	Water	351.2	6439
885-5610-1 MSD	692-02	Total/NA	Water	351.2	6439

Lab Chronicle

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5610-1

Client Sample ID: 692-02

Date Collected: 06/04/24 10:56

Date Received: 06/05/24 08:45

Lab Sample ID: 885-5610-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	6197	RC	EET ALB	06/05/24 23:40
Total/NA	Analysis	300.0		10	6198	RC	EET ALB	06/05/24 23:40
Total/NA	Analysis	300.0		100	6197	RC	EET ALB	06/05/24 23:53
Total/NA	Analysis	2540C		1	6380	KB	EET ALB	06/10/24 11:07
Total/NA	Prep	351.2			6439	EH	EET ALB	06/10/24 16:46
Total/NA	Analysis	351.2		1	6702	EH	EET ALB	06/12/24 15:01

Client Sample ID: EW-04

Date Collected: 06/04/24 12:38

Date Received: 06/05/24 08:45

Lab Sample ID: 885-5610-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	6197	RC	EET ALB	06/06/24 00:06
Total/NA	Analysis	300.0		10	6198	RC	EET ALB	06/06/24 00:06
Total/NA	Analysis	300.0		100	6197	RC	EET ALB	06/06/24 00:19
Total/NA	Analysis	2540C		1	6380	KB	EET ALB	06/10/24 11:07
Total/NA	Prep	351.2			6439	EH	EET ALB	06/10/24 16:46
Total/NA	Analysis	351.2		1	6702	EH	EET ALB	06/12/24 15:08

Client Sample ID: EW-02

Date Collected: 06/04/24 14:30

Date Received: 06/05/24 08:45

Lab Sample ID: 885-5610-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		100	6197	RC	EET ALB	06/06/24 01:36
Total/NA	Analysis	300.0		100	6198	RC	EET ALB	06/06/24 01:36
Total/NA	Analysis	2540C		1	6380	KB	EET ALB	06/10/24 11:07
Total/NA	Prep	351.2			6439	EH	EET ALB	06/10/24 16:46
Total/NA	Analysis	351.2		1	6702	EH	EET ALB	06/12/24 15:10

Client Sample ID: 692-05

Date Collected: 06/04/24 15:50

Date Received: 06/05/24 08:45

Lab Sample ID: 885-5610-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	6197	RC	EET ALB	06/06/24 02:15
Total/NA	Analysis	300.0		10	6198	RC	EET ALB	06/06/24 02:15
Total/NA	Analysis	300.0		100	6197	RC	EET ALB	06/06/24 02:27
Total/NA	Analysis	2540C		1	6380	KB	EET ALB	06/10/24 11:07
Total/NA	Prep	351.2			6439	EH	EET ALB	06/10/24 16:46
Total/NA	Analysis	351.2		1	6702	EH	EET ALB	06/12/24 15:11

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

Accreditation/Certification Summary

Client: EA Engineering
 Project/Site: Del Oro Dairy

Job ID: 885-5610-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
351.2	351.2	Water	Nitrogen, Total Kjeldahl

Oregon	NELAP	NM100001	02-26-25
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
351.2	351.2	Water	Nitrogen, Total Kjeldahl



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) _____

Date	Time	Matrix	Sample Name
6-4	10:56	Gw	692-02
6-4	12:38	Gw	EW-04
6-4	14:30	Gw	EW-02
6-4	15:50	Gw	692-05

Turn-Around Time
 Standard Rush

Project Name
Del Oro Dairy

Project # _____

Project Manager
Gina Mullen

Sampler: Angel M. Rivera

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 1.3 + 0 = 1.3

Container Type and #
Preservative Type
HEAL No.

Container Type and #	Preservative Type	HEAL No.
2		1
2		2
2		3
2		4


HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-5610 COC



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		

Received by: _____ Via Fed Ex _____ Date: _____ Time: _____

Received by: [Signature] Via _____ Date: 6/15/24 Time: 8:35

Remarks: _____



Login Sample Receipt Checklist

Client: EA Engineering

Job Number: 885-5610-1

Login Number: 5610

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Regina Mullen
EA Engineering
320 Gold Ave SW
Suite 1210
Albuquerque, New Mexico 87102

Generated 6/20/2024 11:08:41 AM

JOB DESCRIPTION

Del Oro Dairy

JOB NUMBER

885-5730-1

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
6/20/2024 11:08:41 AM

Authorized for release by
Colleen McNamara, Project Manager
colleen.McNamara@et.eurofinsus.com
(505)345-3975



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Definitions/Glossary

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering
Project: Del Oro Dairy

Job ID: 885-5730-1

Job ID: 885-5730-1

Eurofins Albuquerque

Job Narrative 885-5730-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/6/2024 8:41 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.6°C.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-6826 and analytical batch 885-6912 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Client Sample ID: 692-09

Lab Sample ID: 885-5730-1

Date Collected: 06/05/24 10:15

Matrix: Water

Date Received: 06/06/24 08:41

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		50	mg/L			06/06/24 16:40	100
Sulfate	210		5.0	mg/L			06/12/24 18:43	10
Nitrate Nitrite as N	6.7		2.0	mg/L			06/06/24 16:25	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1400		100	mg/L			06/12/24 09:27	1
Nitrogen, Total Kjeldahl (EPA 351.2)	ND		0.50	mg/L		06/12/24 11:08	06/13/24 15:58	1

Client Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Client Sample ID: 692-06

Lab Sample ID: 885-5730-2

Date Collected: 06/05/24 11:24

Matrix: Water

Date Received: 06/06/24 08:41

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430		50	mg/L			06/06/24 18:11	100
Sulfate	210		5.0	mg/L			06/12/24 18:55	10
Nitrate Nitrite as N	5.0		2.0	mg/L			06/06/24 17:56	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		100	mg/L			06/12/24 09:27	1
Nitrogen, Total Kjeldahl (EPA 351.2)	ND		0.50	mg/L		06/12/24 11:08	06/13/24 15:59	1



Client Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Client Sample ID: 692-07

Lab Sample ID: 885-5730-3

Date Collected: 06/05/24 12:52

Matrix: Water

Date Received: 06/06/24 08:41

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	550		50	mg/L			06/06/24 18:42	100
Sulfate	220		5.0	mg/L			06/12/24 19:08	10
Nitrate Nitrite as N	3.0		2.0	mg/L			06/06/24 18:26	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1700		100	mg/L			06/12/24 09:27	1
Nitrogen, Total Kjeldahl (EPA 351.2)	ND		0.50	mg/L		06/12/24 11:08	06/13/24 16:01	1



Client Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Client Sample ID: 692-10
Date Collected: 06/05/24 14:20
Date Received: 06/06/24 08:41

Lab Sample ID: 885-5730-4
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	650		50	mg/L			06/06/24 19:12	100
Sulfate	200		5.0	mg/L			06/12/24 19:20	10
Nitrate Nitrite as N	ND		2.0	mg/L			06/06/24 18:57	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1900		100	mg/L			06/12/24 13:02	1
Nitrogen, Total Kjeldahl (EPA 351.2)	ND		0.50	mg/L		06/12/24 11:08	06/13/24 16:02	1

Client Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Client Sample ID: EW-01
Date Collected: 06/05/24 15:56
Date Received: 06/06/24 08:41

Lab Sample ID: 885-5730-5
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		50	mg/L			06/06/24 19:42	100
Sulfate	680		50	mg/L			06/12/24 19:32	100
Nitrate Nitrite as N	190		20	mg/L			06/06/24 19:42	100

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4700		250	mg/L			06/12/24 13:02	1
Nitrogen, Total Kjeldahl (EPA 351.2)	ND	F1	0.50	mg/L		06/12/24 11:08	06/13/24 16:13	1

QC Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-6307/32
Matrix: Water
Analysis Batch: 6307

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			06/06/24 15:40	1

Lab Sample ID: MB 885-6307/4
Matrix: Water
Analysis Batch: 6307

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			06/06/24 08:35	1
Sulfate	ND		0.50	mg/L			06/06/24 08:35	1

Lab Sample ID: LCS 885-6307/33
Matrix: Water
Analysis Batch: 6307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.71		mg/L		94	90 - 110

Lab Sample ID: MRL 885-6307/3
Matrix: Water
Analysis Batch: 6307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.527		mg/L		105	50 - 150
Sulfate	0.500	0.517		mg/L		103	50 - 150

Lab Sample ID: MB 885-6309/32
Matrix: Water
Analysis Batch: 6309

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			06/06/24 15:40	1

Lab Sample ID: MB 885-6309/4
Matrix: Water
Analysis Batch: 6309

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			06/06/24 08:35	1

Lab Sample ID: LCS 885-6309/33
Matrix: Water
Analysis Batch: 6309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	3.50	3.41		mg/L		97	90 - 110

QC Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-6309/3
Matrix: Water
Analysis Batch: 6309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.200	0.208		mg/L		104	50 - 150

Lab Sample ID: 885-5730-1 MS
Matrix: Water
Analysis Batch: 6309

Client Sample ID: 692-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	6.7		35.0	39.8		mg/L		94	80 - 120

Lab Sample ID: 885-5730-1 MSD
Matrix: Water
Analysis Batch: 6309

Client Sample ID: 692-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	6.7		35.0	39.8		mg/L		95	80 - 120	0	20

Lab Sample ID: MB 885-6618/32
Matrix: Water
Analysis Batch: 6618

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			06/12/24 17:17	1
Sulfate	ND		0.50	mg/L			06/12/24 17:17	1

Lab Sample ID: MB 885-6618/4
Matrix: Water
Analysis Batch: 6618

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			06/12/24 08:55	1
Sulfate	ND		0.50	mg/L			06/12/24 08:55	1

Lab Sample ID: LCS 885-6618/33
Matrix: Water
Analysis Batch: 6618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.71		mg/L		94	90 - 110
Sulfate	10.0	9.63		mg/L		96	90 - 110

Lab Sample ID: MRL 885-6618/3
Matrix: Water
Analysis Batch: 6618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.529		mg/L		106	50 - 150
Sulfate	0.500	0.507		mg/L		101	50 - 150

QC Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-6550/1
Matrix: Water
Analysis Batch: 6550

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			06/12/24 09:27	1

Lab Sample ID: LCS 885-6550/2
Matrix: Water
Analysis Batch: 6550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	996		mg/L		100	80 - 120

Lab Sample ID: MB 885-6587/1
Matrix: Water
Analysis Batch: 6587

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			06/12/24 13:02	1

Lab Sample ID: LCS 885-6587/2
Matrix: Water
Analysis Batch: 6587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1000		mg/L		100	80 - 120

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 885-6568/33-A
Matrix: Water
Analysis Batch: 6699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6568

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Total Kjeldahl	ND		0.50	mg/L		06/12/24 11:08	06/13/24 16:05	1

Lab Sample ID: MB 885-6568/6-A
Matrix: Water
Analysis Batch: 6699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6568

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Total Kjeldahl	ND		0.50	mg/L		06/12/24 11:08	06/13/24 15:19	1

Lab Sample ID: LCS 885-6568/35-A
Matrix: Water
Analysis Batch: 6699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	9.91	10.1		mg/L		102	90 - 110

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QC Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 885-6568/8-A
Matrix: Water
Analysis Batch: 6699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	9.91	9.95		mg/L		100	90 - 110

Lab Sample ID: LLCS 885-6568/34-A
Matrix: Water
Analysis Batch: 6699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6568

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	0.496	ND		mg/L		97	50 - 150

Lab Sample ID: LLCS 885-6568/7-A
Matrix: Water
Analysis Batch: 6699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6568

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	0.496	ND		mg/L		97	50 - 150

Lab Sample ID: 885-5730-5 MS
Matrix: Water
Analysis Batch: 6699

Client Sample ID: EW-01
Prep Type: Total/NA
Prep Batch: 6568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	ND	F1	9.91	ND	F1	mg/L		0	90 - 110

Lab Sample ID: 885-5730-5 MSD
Matrix: Water
Analysis Batch: 6699

Client Sample ID: EW-01
Prep Type: Total/NA
Prep Batch: 6568

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	F1	9.91	ND	F1	mg/L		0	90 - 110	NC	20

Lab Sample ID: MB 885-6826/33-A
Matrix: Water
Analysis Batch: 6912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6826

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Total Kjeldahl	ND		0.50	mg/L		06/17/24 11:19	06/18/24 10:57	1

Lab Sample ID: LCS 885-6826/35-A
Matrix: Water
Analysis Batch: 6912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	10.0	9.72		mg/L		97	90 - 110

Lab Sample ID: LLCS 885-6826/34-A
Matrix: Water
Analysis Batch: 6912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6826

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	0.500	0.531		mg/L		106	50 - 150

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QC Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: 885-5730-5 MS
Matrix: Water
Analysis Batch: 6912

Client Sample ID: EW-01
Prep Type: Total/NA
Prep Batch: 6826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	ND	F1	10.0	ND	F1	mg/L		0	90 - 110

Lab Sample ID: 885-5730-5 MSD
Matrix: Water
Analysis Batch: 6912

Client Sample ID: EW-01
Prep Type: Total/NA
Prep Batch: 6826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	F1	10.0	ND	F1	mg/L		0	90 - 110	NC	20

QC Association Summary

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

HPLC/IC

Analysis Batch: 6307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5730-1	692-09	Total/NA	Water	300.0	
885-5730-2	692-06	Total/NA	Water	300.0	
885-5730-3	692-07	Total/NA	Water	300.0	
885-5730-4	692-10	Total/NA	Water	300.0	
885-5730-5	EW-01	Total/NA	Water	300.0	
MB 885-6307/32	Method Blank	Total/NA	Water	300.0	
MB 885-6307/4	Method Blank	Total/NA	Water	300.0	
LCS 885-6307/33	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-6307/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 6309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5730-1	692-09	Total/NA	Water	300.0	
885-5730-2	692-06	Total/NA	Water	300.0	
885-5730-3	692-07	Total/NA	Water	300.0	
885-5730-4	692-10	Total/NA	Water	300.0	
885-5730-5	EW-01	Total/NA	Water	300.0	
MB 885-6309/32	Method Blank	Total/NA	Water	300.0	
MB 885-6309/4	Method Blank	Total/NA	Water	300.0	
LCS 885-6309/33	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-6309/3	Lab Control Sample	Total/NA	Water	300.0	
885-5730-1 MS	692-09	Total/NA	Water	300.0	
885-5730-1 MSD	692-09	Total/NA	Water	300.0	

Analysis Batch: 6618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5730-1	692-09	Total/NA	Water	300.0	
885-5730-2	692-06	Total/NA	Water	300.0	
885-5730-3	692-07	Total/NA	Water	300.0	
885-5730-4	692-10	Total/NA	Water	300.0	
885-5730-5	EW-01	Total/NA	Water	300.0	
MB 885-6618/32	Method Blank	Total/NA	Water	300.0	
MB 885-6618/4	Method Blank	Total/NA	Water	300.0	
LCS 885-6618/33	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-6618/3	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 6550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5730-1	692-09	Total/NA	Water	2540C	
885-5730-2	692-06	Total/NA	Water	2540C	
885-5730-3	692-07	Total/NA	Water	2540C	
MB 885-6550/1	Method Blank	Total/NA	Water	2540C	
LCS 885-6550/2	Lab Control Sample	Total/NA	Water	2540C	

Prep Batch: 6568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5730-1	692-09	Total/NA	Water	351.2	
885-5730-2	692-06	Total/NA	Water	351.2	
885-5730-3	692-07	Total/NA	Water	351.2	

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QC Association Summary

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

General Chemistry (Continued)

Prep Batch: 6568 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5730-4	692-10	Total/NA	Water	351.2	
885-5730-5	EW-01	Total/NA	Water	351.2	
MB 885-6568/33-A	Method Blank	Total/NA	Water	351.2	
MB 885-6568/6-A	Method Blank	Total/NA	Water	351.2	
LCS 885-6568/35-A	Lab Control Sample	Total/NA	Water	351.2	
LCS 885-6568/8-A	Lab Control Sample	Total/NA	Water	351.2	
LLCS 885-6568/34-A	Lab Control Sample	Total/NA	Water	351.2	
LLCS 885-6568/7-A	Lab Control Sample	Total/NA	Water	351.2	
885-5730-5 MS	EW-01	Total/NA	Water	351.2	
885-5730-5 MSD	EW-01	Total/NA	Water	351.2	

Analysis Batch: 6587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5730-4	692-10	Total/NA	Water	2540C	
885-5730-5	EW-01	Total/NA	Water	2540C	
MB 885-6587/1	Method Blank	Total/NA	Water	2540C	
LCS 885-6587/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 6699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5730-1	692-09	Total/NA	Water	351.2	6568
885-5730-2	692-06	Total/NA	Water	351.2	6568
885-5730-3	692-07	Total/NA	Water	351.2	6568
885-5730-4	692-10	Total/NA	Water	351.2	6568
885-5730-5	EW-01	Total/NA	Water	351.2	6568
MB 885-6568/33-A	Method Blank	Total/NA	Water	351.2	6568
MB 885-6568/6-A	Method Blank	Total/NA	Water	351.2	6568
LCS 885-6568/35-A	Lab Control Sample	Total/NA	Water	351.2	6568
LCS 885-6568/8-A	Lab Control Sample	Total/NA	Water	351.2	6568
LLCS 885-6568/34-A	Lab Control Sample	Total/NA	Water	351.2	6568
LLCS 885-6568/7-A	Lab Control Sample	Total/NA	Water	351.2	6568
885-5730-5 MS	EW-01	Total/NA	Water	351.2	6568
885-5730-5 MSD	EW-01	Total/NA	Water	351.2	6568

Prep Batch: 6826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-6826/33-A	Method Blank	Total/NA	Water	351.2	
LCS 885-6826/35-A	Lab Control Sample	Total/NA	Water	351.2	
LLCS 885-6826/34-A	Lab Control Sample	Total/NA	Water	351.2	
885-5730-5 MS	EW-01	Total/NA	Water	351.2	
885-5730-5 MSD	EW-01	Total/NA	Water	351.2	

Analysis Batch: 6912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-6826/33-A	Method Blank	Total/NA	Water	351.2	6826
LCS 885-6826/35-A	Lab Control Sample	Total/NA	Water	351.2	6826
LLCS 885-6826/34-A	Lab Control Sample	Total/NA	Water	351.2	6826
885-5730-5 MS	EW-01	Total/NA	Water	351.2	6826
885-5730-5 MSD	EW-01	Total/NA	Water	351.2	6826

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Lab Chronicle

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Client Sample ID: 692-09

Date Collected: 06/05/24 10:15

Date Received: 06/06/24 08:41

Lab Sample ID: 885-5730-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	6309	JT	EET ALB	06/06/24 16:25
Total/NA	Analysis	300.0		100	6307	JT	EET ALB	06/06/24 16:40
Total/NA	Analysis	300.0		10	6618	JT	EET ALB	06/12/24 18:43
Total/NA	Analysis	2540C		1	6550	KB	EET ALB	06/12/24 09:27
Total/NA	Prep	351.2			6568	EH	EET ALB	06/12/24 11:08
Total/NA	Analysis	351.2		1	6699	EH	EET ALB	06/13/24 15:58

Client Sample ID: 692-06

Date Collected: 06/05/24 11:24

Date Received: 06/06/24 08:41

Lab Sample ID: 885-5730-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	6309	JT	EET ALB	06/06/24 17:56
Total/NA	Analysis	300.0		100	6307	JT	EET ALB	06/06/24 18:11
Total/NA	Analysis	300.0		10	6618	JT	EET ALB	06/12/24 18:55
Total/NA	Analysis	2540C		1	6550	KB	EET ALB	06/12/24 09:27
Total/NA	Prep	351.2			6568	EH	EET ALB	06/12/24 11:08
Total/NA	Analysis	351.2		1	6699	EH	EET ALB	06/13/24 15:59

Client Sample ID: 692-07

Date Collected: 06/05/24 12:52

Date Received: 06/06/24 08:41

Lab Sample ID: 885-5730-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	6309	JT	EET ALB	06/06/24 18:26
Total/NA	Analysis	300.0		100	6307	JT	EET ALB	06/06/24 18:42
Total/NA	Analysis	300.0		10	6618	JT	EET ALB	06/12/24 19:08
Total/NA	Analysis	2540C		1	6550	KB	EET ALB	06/12/24 09:27
Total/NA	Prep	351.2			6568	EH	EET ALB	06/12/24 11:08
Total/NA	Analysis	351.2		1	6699	EH	EET ALB	06/13/24 16:01

Client Sample ID: 692-10

Date Collected: 06/05/24 14:20

Date Received: 06/06/24 08:41

Lab Sample ID: 885-5730-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	6309	JT	EET ALB	06/06/24 18:57
Total/NA	Analysis	300.0		100	6307	JT	EET ALB	06/06/24 19:12
Total/NA	Analysis	300.0		10	6618	JT	EET ALB	06/12/24 19:20
Total/NA	Analysis	2540C		1	6587	KB	EET ALB	06/12/24 13:02
Total/NA	Prep	351.2			6568	EH	EET ALB	06/12/24 11:08
Total/NA	Analysis	351.2		1	6699	EH	EET ALB	06/13/24 16:02

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Lab Chronicle

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Client Sample ID: EW-01

Lab Sample ID: 885-5730-5

Date Collected: 06/05/24 15:56

Matrix: Water

Date Received: 06/06/24 08:41

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Analysis	300.0		100	6307	JT	EET ALB	06/06/24 19:42
Total/NA	Analysis	300.0		100	6309	JT	EET ALB	06/06/24 19:42
Total/NA	Analysis	300.0		100	6618	JT	EET ALB	06/12/24 19:32
Total/NA	Analysis	2540C		1	6587	KB	EET ALB	06/12/24 13:02
Total/NA	Prep	351.2			6568	EH	EET ALB	06/12/24 11:08
Total/NA	Analysis	351.2		1	6699	EH	EET ALB	06/13/24 16:13

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975



Accreditation/Certification Summary

Client: EA Engineering
 Project/Site: Del Oro Dairy

Job ID: 885-5730-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
351.2	351.2	Water	Nitrogen, Total Kjeldahl

Oregon	NELAP	NM100001	02-26-25
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
351.2	351.2	Water	Nitrogen, Total Kjeldahl



Login Sample Receipt Checklist

Client: EA Engineering

Job Number: 885-5730-1

Login Number: 5730

List Number: 1

Creator: Dominguez, Desiree

List Source: Eurofins Albuquerque

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Regina Mullen
EA Engineering
320 Gold Ave SW
Suite 1210
Albuquerque, New Mexico 87102

Generated 7/15/2024 7:58:42 AM

JOB DESCRIPTION

Del Oro Dairy

JOB NUMBER

885-6733-1

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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7/15/2024 7:58:42 AM

Authorized for release by
Colleen McNamara, Project Manager
colleen.McNamara@et.eurofinsus.com
(505)345-3975



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Definitions/Glossary

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-6733-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering
Project: Del Oro Dairy

Job ID: 885-6733-1

Job ID: 885-6733-1

Eurofins Albuquerque

Job Narrative 885-6733-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 6/22/2024 9:35 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 22.6°C.

HPLC/IC

Method 300_OF_28D_NO3: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 885-7381 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-6733-1

Client Sample ID: EW-05
Date Collected: 06/14/24 15:20
Date Received: 06/22/24 09:35

Lab Sample ID: 885-6733-1
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		50	mg/L			06/26/24 19:01	100
Sulfate	270		5.0	mg/L			06/26/24 18:16	10
Nitrate Nitrite as N	20		1.0	mg/L			06/27/24 03:23	5

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1900	H H3	50	mg/L			06/25/24 08:10	1
Nitrogen, Total Kjeldahl (EPA 351.2)	ND		0.50	mg/L		06/24/24 15:28	06/26/24 16:41	1



QC Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-6733-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-7380/4
Matrix: Water
Analysis Batch: 7380

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			06/26/24 14:29	1
Sulfate	ND		0.50	mg/L			06/26/24 14:29	1

Lab Sample ID: LCS 885-7380/5
Matrix: Water
Analysis Batch: 7380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.82		mg/L		96	90 - 110
Sulfate	10.0	9.81		mg/L		98	90 - 110

Lab Sample ID: MRL 885-7380/3
Matrix: Water
Analysis Batch: 7380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.526		mg/L		105	50 - 150
Sulfate	0.500	0.509		mg/L		102	50 - 150

Lab Sample ID: 885-6733-1 MS
Matrix: Water
Analysis Batch: 7380

Client Sample ID: EW-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	270		100	380		mg/L		109	80 - 120

Lab Sample ID: 885-6733-1 MSD
Matrix: Water
Analysis Batch: 7380

Client Sample ID: EW-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	270		100	371		mg/L		100	80 - 120	2	20

Lab Sample ID: MB 885-7381/4
Matrix: Water
Analysis Batch: 7381

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			06/26/24 14:29	1

Lab Sample ID: LCS 885-7381/5
Matrix: Water
Analysis Batch: 7381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate	2.50	2.53		mg/L		101	90 - 110
Nitrite	1.00	0.952		mg/L		95	90 - 110

QC Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-6733-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-7381/3
Matrix: Water
Analysis Batch: 7381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate	0.100	0.102		mg/L		102	50 - 150
Nitrite	0.0999	0.0979	J	mg/L		98	50 - 150

Lab Sample ID: 885-6733-1 MS
Matrix: Water
Analysis Batch: 7381

Client Sample ID: EW-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate	21		25.0	48.2		mg/L		108	80 - 120

Lab Sample ID: 885-6733-1 MSD
Matrix: Water
Analysis Batch: 7381

Client Sample ID: EW-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Nitrate	21		25.0	47.5		mg/L		106	80 - 120	1	20

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-7293/1
Matrix: Water
Analysis Batch: 7293

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			06/25/24 08:10	1

Lab Sample ID: LCS 885-7293/2
Matrix: Water
Analysis Batch: 7293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1020		mg/L		102	80 - 120

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 885-7275/6-A
Matrix: Water
Analysis Batch: 7606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7275

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Total Kjeldahl	ND		0.50	mg/L		06/24/24 15:28	06/26/24 15:56	1

Lab Sample ID: LCS 885-7275/8-A
Matrix: Water
Analysis Batch: 7606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	10.0	10.1		mg/L		101	90 - 110

QC Sample Results

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-6733-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LLCS 885-7275/7-A
Matrix: Water
Analysis Batch: 7606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7275

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Total Kjeldahl	0.500	ND		mg/L		96	50 - 150

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

QC Association Summary

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-6733-1

HPLC/IC

Analysis Batch: 7380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6733-1	EW-05	Total/NA	Water	300.0	
885-6733-1	EW-05	Total/NA	Water	300.0	
MB 885-7380/4	Method Blank	Total/NA	Water	300.0	
LCS 885-7380/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-7380/3	Lab Control Sample	Total/NA	Water	300.0	
885-6733-1 MS	EW-05	Total/NA	Water	300.0	
885-6733-1 MSD	EW-05	Total/NA	Water	300.0	

Analysis Batch: 7381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6733-1	EW-05	Total/NA	Water	300.0	
MB 885-7381/4	Method Blank	Total/NA	Water	300.0	
LCS 885-7381/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-7381/3	Lab Control Sample	Total/NA	Water	300.0	
885-6733-1 MS	EW-05	Total/NA	Water	300.0	
885-6733-1 MSD	EW-05	Total/NA	Water	300.0	

General Chemistry

Prep Batch: 7275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6733-1	EW-05	Total/NA	Water	351.2	
MB 885-7275/6-A	Method Blank	Total/NA	Water	351.2	
LCS 885-7275/8-A	Lab Control Sample	Total/NA	Water	351.2	
LLCS 885-7275/7-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 7293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6733-1	EW-05	Total/NA	Water	2540C	
MB 885-7293/1	Method Blank	Total/NA	Water	2540C	
LCS 885-7293/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 7606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6733-1	EW-05	Total/NA	Water	351.2	7275
MB 885-7275/6-A	Method Blank	Total/NA	Water	351.2	7275
LCS 885-7275/8-A	Lab Control Sample	Total/NA	Water	351.2	7275
LLCS 885-7275/7-A	Lab Control Sample	Total/NA	Water	351.2	7275

Lab Chronicle

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-6733-1

Client Sample ID: EW-05
Date Collected: 06/14/24 15:20
Date Received: 06/22/24 09:35

Lab Sample ID: 885-6733-1
Matrix: Water

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Analysis	300.0		10	7380	RC	EET ALB	06/26/24 18:16
Total/NA	Analysis	300.0		100	7380	RC	EET ALB	06/26/24 19:01
Total/NA	Analysis	300.0		5	7381	RC	EET ALB	06/27/24 03:23
Total/NA	Analysis	2540C		1	7293	KS	EET ALB	06/25/24 08:10
Total/NA	Prep	351.2			7275	DL	EET ALB	06/24/24 15:28
Total/NA	Analysis	351.2		1	7606	DL	EET ALB	06/26/24 16:41

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975



Accreditation/Certification Summary

Client: EA Engineering
Project/Site: Del Oro Dairy

Job ID: 885-6733-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
351.2	351.2	Water	Nitrogen, Total Kjeldahl

Oregon	NELAP	NM100001	02-26-25
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
351.2	351.2	Water	Nitrogen, Total Kjeldahl



Login Sample Receipt Checklist

Client: EA Engineering

Job Number: 885-6733-1

Login Number: 6733

List Source: Eurofins Albuquerque

List Number: 1

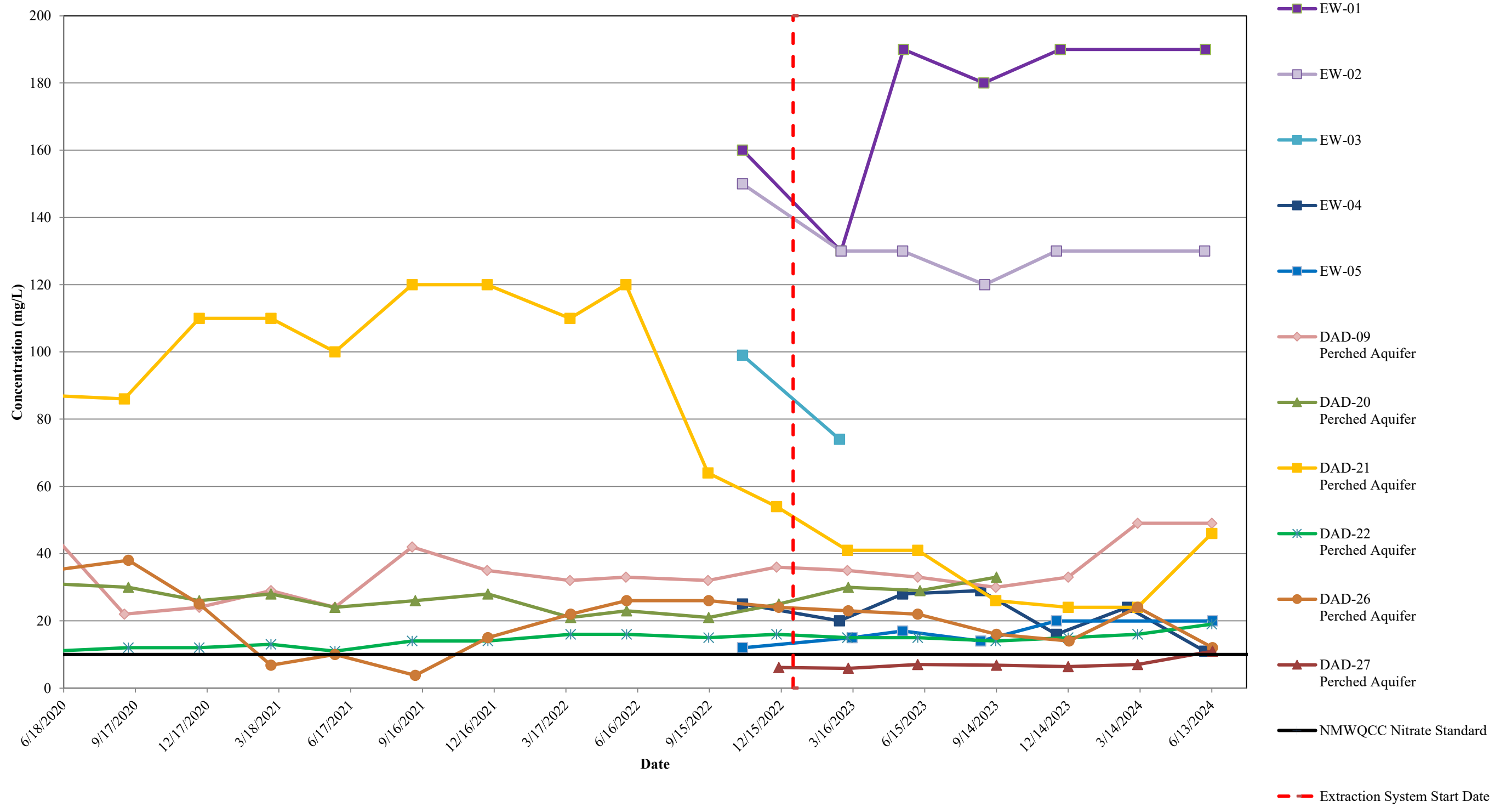
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

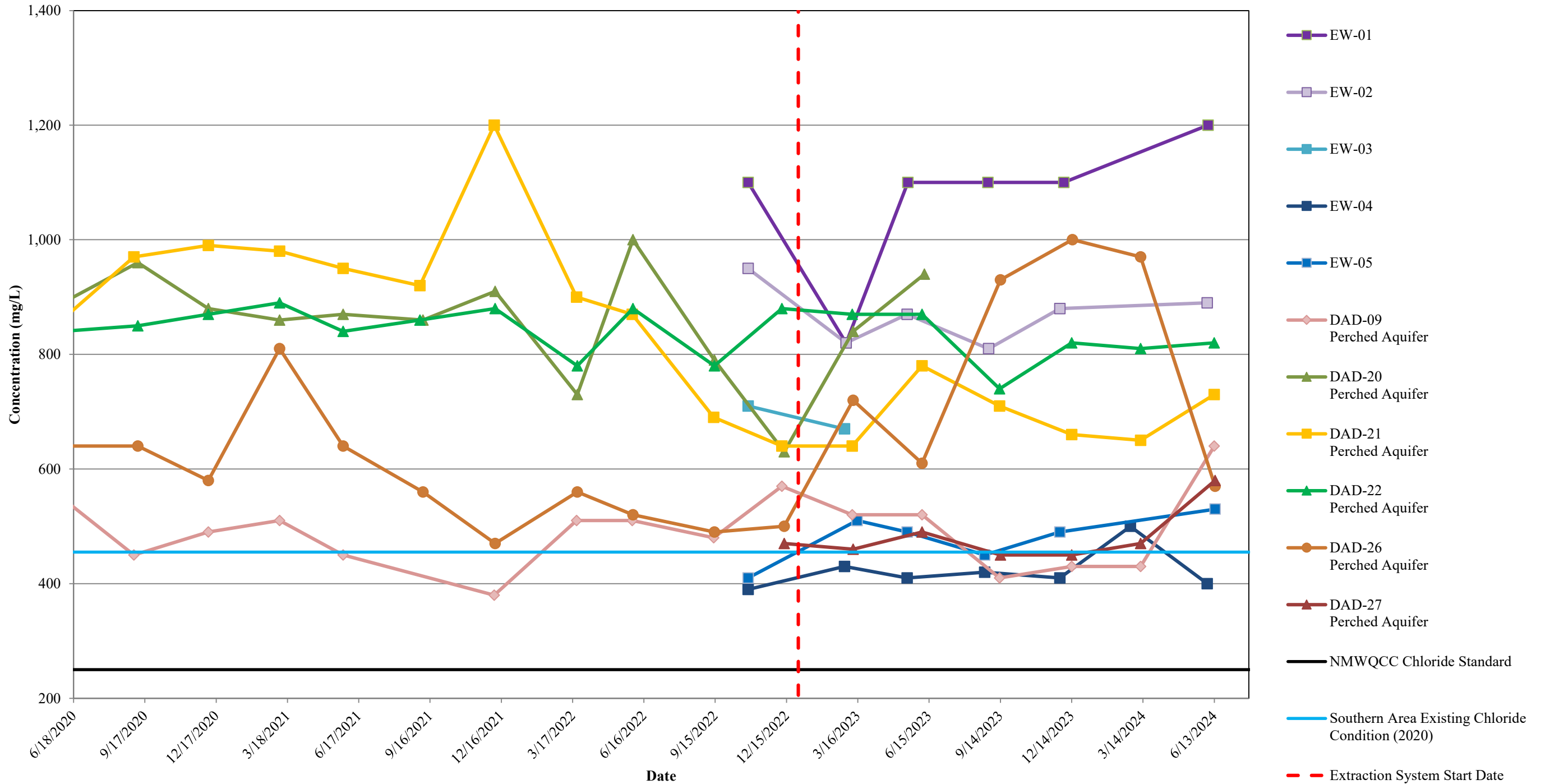


**ATTACHMENT 3 – CONCENTRATION TRENDS FOR DEL ORO
EXTRACTION WELLS AND ABATEMENT PLAN MONITORING WELLS
IN THE PERCHED AQUIFER**

**NITRATE CONCENTRATION TRENDS
 DEL ORO EXTRACTION WELLS AND ABATEMENT PLAN MONITORING WELLS
 IN THE PERCHED AQUIFER
 DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



**CHLORIDE CONCENTRATION TRENDS
DEL ORO EXTRACTION WELLS AND ABATEMENT PLAN MONITORING WELLS
IN THE PERCHED AQUIFER
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



**TDS CONCENTRATION TRENDS
DEL ORO EXTRACTION WELLS AND ABATEMENT PLAN MONITORING WELLS
IN THE PERCHED AQUIFER
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

