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February 11, 2016

Ms. Nancy McDuffie  
New Mexico Environment Department  
Ground Water Quality Bureau  
Remediation Oversight Section  
121 Tijeras Avenue NE, Suite 1000  
Albuquerque, NM 87102-3421

Mr. Ray Montes  
New Mexico Environment Department  
Ground Water Quality Bureau  
Remediation Oversight Section  
1170 N. Solano, Ste. M  
Las Cruces, NM 88001

Dear Ms. McDuffie and Mr. Montes:

On behalf of Doña Ana Dairies, Inc., EA Engineering, Science, and Technology, Inc., PBC is submitting this Quarterly Groundwater Monitoring Report for Doña Ana Dairies located in Mesquite, Vado, and Anthony, New Mexico. The report discusses the quarterly groundwater sampling event conducted to fulfill requirements of the Stage 2 Abatement Plan for Doña Ana Dairies.

Please let me know if you have any questions regarding the information provided in this report.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Teri McMillan', is positioned above the printed name.

Teri McMillan  
Project Manager

A handwritten signature in blue ink, appearing to read 'Jay Snyder', is positioned above the printed name.

Jay Snyder  
Senior Hydrogeologist

Enclosure

Cc: Linda Armstrong, Doña Ana Dairies  
File



QUARTERLY GROUNDWATER  
MONITORING REPORT  
DOÑA ANA DAIRIES  
MESQUITE, NEW MEXICO

Prepared for:

Doña Ana Dairies  
Mesquite, New Mexico

Prepared by:

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February 2016

EA Project No. 1464103.0008





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# QUARTERLY GROUNDWATER MONITORING REPORT DOÑA ANA DAIRIES MESQUITE, NEW MEXICO

Prepared for:

Doña Ana Dairies  
Mesquite, New Mexico

Prepared by:

EA Engineering, Science,  
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320 Gold Avenue SW, Suite 1300  
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02/11/2016

Date

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February 2016

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## 1.0 INTRODUCTION

On behalf of Doña Ana Dairies (Dairies), EA Engineering, Science, and Technology, Inc., PBC (EA) has prepared this Quarterly Monitoring Report for Doña Ana Dairies located south of Las Cruces, New Mexico (Figure 1). The report was completed in accordance with the *Stage 2 Abatement Plan* and the *Sampling and Analysis Plan, Doña Ana Dairies, Doña Ana County, New Mexico* dated November 7, 2013 and August 11, 2008, respectively, and the Conceptual Work Plan (CWP) dated February 1, 2008. All were prepared to satisfy requirements stated in the New Mexico Administrative Code (NMAC), Title 20, 6.2 §4106 through §4110. The Sampling and Analysis Plan was approved by the New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) on September 25, 2008. On March 25, 2015, the stipulated agreement to additional requirements to the Dona Ana Dairies Stage 2 Abatement Plan was agreed to by NMED, Dona Ana Dairies, and the Rio Valle Concerned Citizens. On April 10, 2015 the Stage 2 Abatement Plan was approved by NMED by Final Order.

### 1.1 Objective

The objective of this monitoring program is to satisfy the requirements set forth in NMAC 20.6.2 4106 C, Stage 1 Abatement Plan monitoring program.

The following work was performed to meet the objective of the monitoring program, and included:

- On November 5 and 6, 2015, representatives from D&H Petroleum and Environmental Services, Inc. (D&H) gauged discharge plan (DP) and abatement plan (AP) monitoring wells. Wells at the Anthony Waste Water Treatment Plant were gauged on November 11, 2015.
- On November 9 through December 2, 2015, D&H representatives collected groundwater samples from 21 of the 22 AP wells and each of the Dairies' DP monitoring wells that contained sufficient water to sample. AP well DAD-06 did not contain enough water to sample. The sampling campaign lasted about three weeks. The samples were delivered to TraceAnalysis, Inc. and analyzed for nitrate using EPA Method 300.0 or SM 4500 NO<sub>3</sub> E, chloride by EPA Method 300.0, total dissolved solids (TDS) by Method SM 2540C, and total Kjeldhal nitrogen (TKN) by Method SM 4500 N org C. During sampling, field parameters including specific conductance, pH, temperature, oxidation reduction potential (ORP), and dissolved oxygen (DO) were monitored and recorded.
- The most recent groundwater gauging and analytical results were compiled into this Quarterly Groundwater Monitoring Report.

### 1.2 Background

In correspondence dated April 7, 2006, NMED required a Stage 1 Abatement Plan for 13 dairies in Doña Ana County, based on analytical results from DP monitoring of on-site compliance monitoring wells that showed concentrations of nitrate, chloride and TDS exceeding ground water standards promulgated in New Mexico Water Quality Control Commission (NMWQCC) Regulations (20 NMAC 6.2 §3103). On October 30, 2006, the Dairies notified NMED that they

had reached an agreement to work as a group and submit a joint response to NMED's request (Doña Ana Dairies, 2006).

On December 11, 2006, on behalf of the Doña Ana Dairies, Golder Associates (Golder) submitted a Stage 1 and 2 Abatement Plan Proposal to address impacts to groundwater in the area of the Dairies (Golder 2006). The first major deliverable in the Abatement Plan Proposal was an Existing Data Report (EDR) to bring together in one document historical data and practices of the constituent dairies.

The EDR, submitted on February 1, 2008, (Golder 2008a) was intended to satisfy the Dairies commitment for compilation and submission of existing data identified in the Doña Ana Dairies response (2006) to the NMED requirement for Stage I Abatement Plans. Section 9 of the EDR outlined data gaps identified during the preparation of the report, as well as the actions recommended. To facilitate the discussion of the path forward after the submittal of the EDR and concurrent with the EDR submission, a conceptual work plan (CWP) was prepared. (Golder 2008b).

On July 15, 2008, the Dairies, Golder and NMED met (Golder 2008c). During that meeting, plume maps presented in the EDR (Golder 2008a), new monitoring data, and knowledge of well locations and groundwater chemistry results at adjacent DP-regulated facilities were used to identify data gaps with respect to ground water flow direction and plume delineation. The agreed upon data gaps yielded well locations (including contingency locations) recorded in the meeting minutes (Golder 2008c) and depicted in the Sampling and Analysis Plan (SAP) dated August 8, 2008 (Golder 2008d). The SAP outlined the details of the field operations to be implemented for completion of data gaps, such that a Site Investigation Report (§4106.C.6) and Stage 2 Abatement Plan (§4106.D) could be prepared.

Groundwater gauging was conducted concurrent to discussions with NMED at the Dairies for four quarters, February 2008, June 2008, September 2008, and December 2008, to determine the current and historical site groundwater gradient.

In May 2009, field work was conducted as outlined in the SAP and ten (10) AP monitoring wells (DAD-01 through DAD-10) were installed. In July 2009, the Site Investigation Report was submitted to the NMED.

On February 9, 2012 the Final Site Investigation Report was submitted to NMED. The report summarized field activities that occurred from October 10 through October 14, 2011 and November 10 through 18, 2011, during which eleven soil borings were advanced at the site and converted into monitoring wells DAD-12 through DAD-14, DAD-16 through DAD-22, and DP well 177-03A.

On August 16, 2012 soil boring/monitoring well DAD-15 was installed and on August 20, 2012 well DAD-15 sampled. An addendum to the Final Site Investigation Report was submitted to NMED on September 7, 2012, which summarized DAD-15 field activities.

A Stage 2 Abatement Plan was submitted to NMED on March 13, 2013. Based on an NMED response in August 2013, a Revision to the Stage 2 Abatement Plan was submitted on November 7, 2013.

On March 25, 2015, the stipulated agreement to additional requirements to the Dona Ana Dairies Stage 2 Abatement Plan was agreed to by NMED, Dona Ana Dairies, and the Rio Valle Concerned Citizens. On April 10, 2015 the Stage 2 Abatement Plan was approved by NMED by Final Order. Stage 2 Abatement wells are being installed during this reporting period.

Quarterly groundwater monitoring is ongoing.

## 2.0 GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities conducted by D&H included gauging and sampling DP and AP monitoring wells. Groundwater samples were analyzed for nitrate, chloride, TDS, and TKN. The resulting data from this groundwater monitoring event are compiled and presented herein.

### 2.1 Well Gauging

On November 5 and 6, 2015, representatives from D&H gauged the DP and AP monitoring wells with an electronic water level indicator. River Valley Dairy well 167-08 was damaged, but was found to be able to be sampled and gauged on November 23. Anthony Waste Water Treatment Plant wells MW-1, MW-2, and MW-3 were gauged on November 11, 2015. Due to a declining water table, several wells were dry or contained insufficient water for sampling. Table 1 provides a summary of the groundwater gauging data collected from the monitoring network. Potentiometric surface maps were constructed based on these data (Figures 2, 3, 4, and 5).

### 2.2 Groundwater Sampling

From November 23 through November 30, 2015, D&H sampled the AP monitoring wells DAD-01 through DAD-22 with disposable bailers with the exception of well DAD-06, which was dry. Three well volumes were purged unless the well contained insufficient water.

D&H sampled the DP wells from November 9 through December 2, 2015. Prior to sampling, the DP wells were purged three well volumes, if practicable, by (1) hand-bailing with new disposable bailers and twine, (2) pumping with a submersible pump and new polyethylene tubing, or (3) pumping with a dedicated pump and tubing.

The wells were sampled from clean to dirty to the extent possible to minimize cross-contamination. All non-dedicated or disposable equipment was decontaminated between wells with an Alconox™ solution to further ensure sample quality. All meters were calibrated and/or checked with standards in accordance with manufacturer's specifications prior to daily use. Purge water was ground discharged.

When sufficient water was available, field parameters including specific conductance, pH, temperature, ORP, and dissolved oxygen were monitored using a YSI 556 MPS and recorded. Field parameters for August 2015 and November/December 2015 are summarized in Table 2. The sampling field forms are presented in Appendix A.

All groundwater samples were collected immediately after purging. Sampling was either accomplished by carefully pouring groundwater from the bailer into the sample containers or by pumping groundwater through polyethylene tubing into the sample container. Sample containers were provided by TraceAnalysis. Container size, type, sample preservatives, analytical methods, and holding times are specified in Table 3. All samples were preserved in accordance with method requirements, labeled, then immediately cooled to <6°C with ice and delivered under chain-of-custody to TraceAnalysis in El Paso, Texas. All analytical laboratory reports are provided in Appendix B.

### 3.0 GROUNDWATER MONITORING RESULTS

#### 3.1 Hydraulic Gradient and Direction of Groundwater Flow

This quarter, groundwater was present beneath the site at depths from 12.85 feet below top of casing (ft TOC) in abatement well 257/260-01 to 133.16 ft TOC in Dominguez #2 well 42-12. Groundwater was encountered at shallower depths near the Mesquite Drain and at greater depths near I-10 where the topographic elevation increases.

Potentiometric surface maps were completed using the monitoring well gauging data for the northern, central, and southern portions of the Dairies and are provided as Figures 2, 3, 4, and 5. Hydrographs were completed for select monitoring wells and are provided in Appendix C. On average, water levels have increased in the northern and central areas when compared to the monitoring event conducted in August 2015, while water levels in the southern area decreased (See hydrographs presented in Appendix C). Long term decreases in water levels have resulted in many wells becoming dry.

The groundwater flow direction in the northern and southern portion of the regional aquifer is to the southeast, and the groundwater flow in the central portion of the regional aquifer is southerly. The gradient in the southern perched aquifer of the dairy near Anthony, New Mexico, flows southwest. The hydraulic gradient across the Dairies is approximately 0.001 ft/ft.

#### 3.2 Groundwater Field Parameters

Field parameters from the most recent monitoring event including specific conductance, pH, temperature, ORP, and dissolved oxygen are discussed below. The field parameters were recorded on the sampling field forms (Appendix A) and summarized in Table 2. Though dissolved oxygen and ORP measurements from wells containing a pump were recorded, these measurements are not representative of aquifer conditions and therefore are not included in the discussion. Many dissolved oxygen and ORP values do not appear to be accurate, possibly due to a malfunctioning meter or improper calibration.

##### Northern Area

In the northern area, pH values ranged from of 6.79 in Organ Dairy well 126-09 to 7.73 in Dominguez 2 Dairy well 42-12 for the November/December 2015 monitoring event. Specific conductivity ranged from 1,892 microsiemens per centimeter ( $\mu\text{S}/\text{cm}$ ) in Dominguez 2 Dairy well 42-12 to 9,359  $\mu\text{S}/\text{cm}$  in Mountain View Dairy well 70-03. Dissolved oxygen ranged from 1.17 milligrams per liter (mg/L) in Mountain View Dairy well 70-04 to 5.28 mg/L in abatement well DAD-02. The ORP ranged from -145.5 millivolts (mV) in Organ Dairy well 126-12 to 227.1 mV in Gonzales Dairy well 177-04 for the most recent monitoring event.

##### Central Area

In the central area, pH values ranged from 6.98 in Big Sky Dairy well 833-05 to 7.90 in Sunset Dairy well 257/260-01 for the most recent monitoring event. Specific conductivity ranged from



1,621  $\mu\text{S}/\text{cm}$  in abatement well DAD-17 to 8,036  $\mu\text{S}/\text{cm}$  in abatement well DAD-08. Dissolved oxygen ranged from 0.90 mg/L in Buena Vista Dairy II well 74-02 to 5.36 mg/L in Big Sky Dairy well 833-06. The ORP ranged from -114.1 mV in River Valley Dairy well 167-07 to 257.1 mV in abatement well DAD-07 for the most recent monitoring event.

### Southern Area

In the southern area of the regional aquifer, pH values ranged from 7.30 in Del Oro Dairy well 692-08 to 7.68 in Del Oro Dairy well 692-07 for the most recent monitoring event. Specific conductivity ranged from 2,009  $\mu\text{S}/\text{cm}$  in Del Oro Dairy well 692-08 to 2,259  $\mu\text{S}/\text{cm}$  in abatement well DAD-10. Dissolved oxygen ranged from 2.13 mg/L in abatement well DAD-10 to 2.17 mg/L in Del Oro Dairy well 692-06. The ORP ranged from 81.6 mV in abatement well DAD-10 to 95.2 mV in Del Oro Dairy well 692-06 for the most recent monitoring event.

In the southern area's perched aquifer, pH values ranged from 6.90 in Del Oro Dairy well 692-02 to 7.33 in abatement well DAD-20 for the most recent monitoring event. Specific conductivity ranged from 2,837  $\mu\text{S}/\text{cm}$  in abatement well DAD-09 to 4,801  $\mu\text{S}/\text{cm}$  in Del Oro Dairy well 692-02. Dissolved oxygen ranged from 1.43 mg/L in Del Oro Dairy well 692-01 to 3.95 mg/L in abatement well DAD-22. The ORP ranged from 122.1 mV in abatement well DAD-21 to 163.4 mV in Del Oro Dairy well 692-02 for the most recent monitoring event.

## **3.3 Groundwater Analytical Results**

### *3.3.1 Abatement Plan Well Results*

Groundwater analyte concentrations were below the NMWQCC standard for nitrate (10 mg/L) in all but 7 of the 21 AP monitoring wells sampled. The AP wells that had nitrate concentrations above standards are DAD-02, DAD-08, DAD-11 (vertical delineation well), DAD-12 (vertical delineation well), DAD-14, DAD-19 (vertical delineation well), and DAD-20. Both chloride and TDS concentrations exceeded their respective NMWQCC standards in all 21 wells sampled, except for well DAD-10 where chloride concentrations decreased from 455 mg/L in September to 146 mg/L for this event.

Nitrate concentrations decreased in AP wells DAD-01, DAD-05, DAD-07, DAD-09, DAD-10, DAD-16, and DAD-18 (vertical delineation well). Nitrate concentrations increase or remained the same in all the other AP wells. The nitrate concentrations in wells DAD-03, DAD-05, and DAD-17 were also below detection limits for this monitoring event. Well DAD-10 saw the largest decrease in nitrate concentrations decreasing from 6.53 mg/L in September 2015 to 0.723 mg/L for this monitoring event. Well DAD-11 increased from 12.4 mg/L in September 2015 to 17.1 mg/L. Nitrate concentrations in the AP wells ranged from below detection limits at <0.0387 mg/L in wells DAD-17 to 66.1 mg/L in well DAD-08 for this event.

Chloride concentrations in the AP wells range from 146 mg/L in well DAD-10 to 2,070 mg/L in well DAD-08 for this event, and TDS ranged from 1,550 mg/L in well DAD-17 to 5,980 mg/L in well DAD-08.

Table 4 summarizes the analytical results for AP monitoring wells and the analytical laboratory results are found in Appendix B. Nitrate and chloride concentration trends for select DAD wells are presented in Appendix D.

### *3.3.2 Results by Areas at the Dairies*

DP groundwater analytical results are summarized in Table 5. These data were combined with the analytical data collected from the 21 AP monitoring wells sampled and are plotted on Figures 6, 7, 8, and 9. Analytical laboratory reports are included in Appendix B. The following discussions summarize the results by area at the Dairies.

#### Northern Portion

The northern nitrate plume downgradient well, DAD-02, was slightly above NMWQCC standard for nitrate (10 mg/L) for the first time in May 2015 and has remained slightly above the standard since. In the most recent monitoring event, nitrate was detected at DAD-02 at a concentration of 10.3 mg/L. Upgradient wells 70/86/340-01 and 86/340-01 (Northern Land Application wells) had above-standard nitrate concentrations of 16.0 mg/L and 11.7 mg/L, respectively. Eastern cross-gradient wells 42-10, 42-11, 42-12, DAD-01, and DAD-13 had nitrate concentrations below the standard. The western delineating cross-gradient well Dominguez 624-05 had a nitrate concentration of 6.72 mg/L in February 2013; however, the well has remained dry since that time. Nitrate concentrations in the well nearest to Dominguez well 624-05, Day Break (Dominguez #2) well 42-02, remained below NMWQCC standards during this monitoring event with a concentration of 7.55 mg/L.

The chloride and TDS concentrations are above standards in all wells sampled within the northern portion. The highest concentrations of chloride and TDS were observed at Northern Land Application area well 70-03 with concentration of 2,850 mg/L and 7,040 mg/L, respectively.

#### Central Portion

The highest nitrate concentrations were observed in Big Sky Dairy well 833-09 at a concentration of 109 mg/L. The upgradient extent of the nitrate plume is defined in the central portion by Buena Vista Dairy II well 74-03 which was below detection limits for nitrate for this event. Sunset Dairy well 257-02 typically defines the downgradient extent of the plume, but was slightly above standards for this event at a concentration 12.2 mg/L. The eastern cross-gradient extent of the plume is defined by wells DAD-07 and DAD-15, and the western extent is defined by wells DAD-04, DAD-16, 167-01A, 167-05, 167-08, and 833-10; nitrate concentrations remain below standards in all of these wells. Changes in nitrate concentrations were generally variable and small in the central portion during this sampling event relative to previous sampling events.

Chloride and TDS concentrations are above standards in all wells within the central portion. The highest chloride and TDS concentrations were observed at well DAD-08 at 2,070 mg/L and

5,980 mg/L, respectively. Well DAD-08 is located east of Sunset Dairy, adjacent to a new irrigation well.

### Southern Portion

Nitrate is present within both the regional and perched aquifers in the southern portion of the Dairies. All of the wells in the regional aquifer are below the NMWQCC standard. For the last five events AP well DAD-10 in the regional aquifer has been above the standard, but nitrate concentrations fell below standards in September 2015 and continued to decrease to 0.723 mg/L for this event.

The well with the highest nitrate concentration in the shallow perched aquifer is Del Oro Dairy well 692-02 with a concentration of 134 mg/L. The nitrate concentration in AP well DAD-20 was above NMWQCC standard (10 mg/L) at 21.8 mg/L. AP wells DAD-09, DAD-21, and DAD-22 remained below standards for this event at 4.95 mg/L, 6.28 mg/L, and 6.52 mg/L, respectively.

Chloride and TDS concentrations are above NMWQCC standards in all wells sampled within the southern portion, with the exception of the chloride concentration in well DAD-10 which was below the standard. Chloride concentrations in this area ranged from 146 mg/L in Del Oro Dairy well DAD-10 to 967 mg/L in well 692-02, while TDS ranged from 1,320 mg/L in Del Oro Dairy well 692-09 to 3,500 mg/L in Del Oro Dairy well 692-02. Upgradient Del Oro well 692-08 had a chloride concentration of 434 mg/L and a TDS concentration of 1,330 mg/L.

#### 4.0 CONCLUSION AND RECOMMENDATIONS

The groundwater monitoring event included the gauging of all accessible DP and DAD wells and sampling of 21 DAD wells and the DP wells that were accessible and contained sufficient water to sample. Based on the data collected, the following conclusions and recommendations are presented:

- The depth to groundwater at the site ranged from 12.85 to 133.16 ft TOC.
- On average, water levels have increased in the northern and central areas since August 2015, while water levels in the southern area decreased.
- The groundwater flow direction at the Dairies within the regional groundwater aquifer is south-southeast. The hydraulic gradient is 0.001 ft/ft.
- The perched groundwater aquifer at Del Oro Dairy has a groundwater flow direction toward the southwest.
- Nitrate was below the NMWQCC standards in 14 of the 21 groundwater samples collected from the AP wells.
- Chloride was above the NMWQCC standard in all monitoring wells sampled, except for well DAD-10 where chloride concentrations decreased to 146 mg/L.
- TDS was above the NMWQCC standard in all monitoring wells sampled.
- Chloride and TDS remain above standards in wells upgradient of the northern, central, and southern portions of the plume at the Dairies. Chloride and TDS are regionally elevated above standards and not necessarily attributed to the Dairies.

## 5.0 REFERENCES

- Doña Ana Dairies. 2006. Letter Regarding Agreement for Joint Stage 1 and Stage 2 Abatement Plan and Storm Water and Wastewater Pond Upgrades. Letter from Mr. Michael Weatherly, Chairman, Doña Ana Dairies, to Mr. William Olson, Chief, Ground Water Quality Bureau. 30 October.
- Golder Associates, Inc. (Golder). 2006. Stage 1 and 2 Abatement Plan Proposal, prepared for New Mexico Environment Department, Remediation Oversight Section, on behalf of Doña Ana Dairies. 11 December.
- Golder. 2008a. Existing Data Report and Conceptual Work Plan, Doña Ana Dairies, Mesquite, New Mexico. 1 February.
- Golder. 2008b. Conceptual Work Plan. Doña Ana Dairies, Mesquite, New Mexico. February 1.
- Golder. 2008c. Notes for the Meeting Regarding New Monitoring Well Installation. Meeting Participants: Doña Ana Dairy representative, DAD technical representatives, and NMED staff. 28 July.
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- New Mexico Environment Department (NMED). 2015. Approval of Stage 2 Abatement Plan Proposal for Doña Ana Dairies. Final Order from Mr. Ryan Flynn, Secretary, Ground Water Quality Bureau. 10 April.
- NMED. 2008. Approval of Sampling and Analysis Plan for the Doña Ana Dairies, Stage 1 Abatement Plan, Doña Ana County, New Mexico. 25 September.
- NMED, Doña Ana Dairies, and Rio Valle Concerned Citizens. 2015. Stipulated Agreement, Dona Ana Dairies Stage 2 Abatement Plan. 25 March.

## **TABLES**

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>NORTHERN AREA</b>						
<b>Northern Land Application Area</b>						
70-03	6-Nov-2015	424580.78	1510233.88	3871.43	58.03	3813.40
	5-Aug-2015				58.45	3812.98
	6-May-2015				57.82	3813.61
	5-Feb-2015				56.55	3814.88
	5-Nov-2014				57.25	3814.18
	12-Aug-2014				57.24	3814.19
	12-May-2014				56.58	3814.85
	12-Feb-2014				55.26	3816.17
	6-Nov-2013				55.93	3815.50
	6-Aug-2013				54.52	3816.91
	7-May-2013				53.87	3817.56
	7-Feb-2013				53.46	3817.97
	24-Oct-2012				54.05	3817.38
	30-Jul-2012				53.70	3817.73
	23-Apr-2012				52.84	3818.59
	30-Jan-2012				51.41	3820.02
	8-Dec-2011				51.49	3819.94
	19-Jul-2011				50.77	3820.66
	20-Apr-2011				49.69	3821.74
	17-Jan-2011				48.70	3822.73
	14-Sep-2010				49.02	3822.41
	24-Jun-2010				48.99	3822.44
	22-Mar-2010				48.90	3822.53
	8-Dec-2009				48.72	3822.71
	28-Aug-2009				49.21	3822.22
	26-May-2009				48.91	3822.52
11-Dec-2008	48.02	3823.41				
28-Sep-2008	48.06	3823.37				
11-Jun-2008	49.20	3822.23				
5-Feb-2008	47.95	3823.48				
14-Nov-2007	48.10	3823.33				
12-Sep-2007	48.70	3822.73				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
70/86/340-01	6-Nov-2015	427320.92	1508461.05	3866.77	51.02	3815.75
	5-Aug-2015				51.22	3815.55
	6-May-2015				50.90	3815.87
	5-Feb-2015				49.68	3817.09
	5-Nov-2014				50.67	3816.10
	12-Aug-2014				50.38	3816.39
	12-May-2014				49.94	3816.83
	12-Feb-2014				48.95	3817.82
	6-Nov-2013				49.21	3817.56
	6-Aug-2013				46.44	3820.33
	7-May-2013				46.79	3819.98
	7-Feb-2013				46.49	3820.28
	24-Oct-2012				47.30	3819.47
	30-Jul-2012				46.84	3819.93
	23-Apr-2012				45.91	3820.86
	8-Dec-2011				45.17	3821.60
	19-Jul-2011				44.49	3822.28
	20-Apr-2011				43.15	3823.62
	17-Jan-2011				42.00	3824.77
	14-Sep-2010				41.79	3824.98
	24-Jun-2010				42.67	3824.10
	22-Mar-2010				42.21	3824.56
	8-Dec-2009				42.02	3824.75
	28-Aug-2009				42.39	3824.38
	26-May-2009				42.33	3824.44
	11-Dec-2008				41.15	3825.62
	28-Sep-2008				41.58	3825.19
	11-Jun-2008				42.31	3824.46
5-Feb-2008	41.07	3825.70				
14-Nov-2007	41.38	3825.39				
12-Sep-2007	41.46	3825.31				



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
86/340-01	6-Nov-2015	432021.33	1503216.90	3876.14	57.83	3818.31
	5-Aug-2015				57.73	3818.41
	6-May-2015				57.74	3818.40
	5-Feb-2015				56.32	3819.82
	5-Nov-2014				57.31	3818.83
	12-Aug-2014				57.28	3818.86
	12-May-2014				57.04	3819.10
	12-Feb-2014				55.10	3821.04
	6-Nov-2013				55.78	3820.36
	6-Aug-2013				53.29	3822.85
	7-May-2013				52.65	3823.49
	7-Feb-2013				52.31	3823.83
	24-Oct-2012				53.16	3822.98
	30-Jul-2012				52.70	3823.44
	23-Apr-2012				52.20	3823.94
	30-Jan-2012				51.10	3825.04
	8-Dec-2011				51.20	3824.94
	19-Jul-2011				50.36	3825.78
	20-Apr-2011				48.91	3827.23
	17-Jan-2011				47.00	3829.14
	14-Sep-2010				47.63	3828.51
	24-Jun-2010				48.22	3827.92
	22-Mar-2010				47.66	3828.48
	8-Dec-2009				47.39	3828.75
	28-Aug-2009				47.75	3828.39
	26-May-2009				47.86	3828.28
	11-Dec-2008				46.68	3829.46
	28-Sep-2008				47.44	3828.70
11-Jun-2008	48.11	3828.03				
5-Feb-2008	46.68	3829.46				
14-Nov-2007	47.11	3829.03				
12-Sep-2007	47.85	3828.29				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Organ Dairy (Formerly known as Del Norte Dairy and Daybreak Dairy)</b>						
126-04	5-Nov-2015	423258.23	1510546.24	3850.31	36.51	3813.80
	5-Aug-2015				37.00	3813.31
	6-May-2015				36.30	3814.01
	5-Feb-2015				35.06	3815.25
	5-Nov-2014				35.62	3814.69
	12-Aug-2014				35.61	3814.70
	12-May-2014				34.98	3815.33
	12-Feb-2014				33.79	3816.52
	6-Nov-2013				34.32	3815.99
	6-Aug-2013				32.93	3817.38
	7-May-2013				32.01	3818.30
	7-Feb-2013				32.05	3818.26
	24-Oct-2012				32.58	3817.73
	30-Jul-2012				32.23	3818.08
	23-Apr-2012				31.46	3818.85
	26-Jan-2012				30.89	3819.42
	8-Dec-2011				30.84	3819.47
	19-Jul-2011				30.26	3820.05
	20-Apr-2011				29.09	3821.22
	17-Jan-2011				28.20	3822.11
	14-Sep-2010				28.60	3821.71
	24-Jun-2010				28.21	3822.10
	22-Mar-2010				28.33	3821.98
	8-Dec-2009				28.17	3822.14
	28-Aug-2009				28.50	3821.81
	26-May-2009				28.30	3822.01
	11-Dec-2008				27.56	3822.75
	27-Sep-2008				27.96	3822.35
10-Jun-2008	28.61	3821.70				
6-Feb-2008	27.53	3822.78				
14-Nov-2007	27.61	3822.70				
11-Sep-2007	28.19	3822.12				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
126-05	5-Nov-2015	422293.26	1510649.84	3842.62	28.80	3813.82
	5-Aug-2015				29.38	3813.24
	6-May-2015				28.87	3813.75
	5-Feb-2015				27.65	3814.97
	5-Nov-2014				27.95	3814.67
	12-Aug-2014				27.85	3814.77
	12-May-2014				27.63	3814.99
	12-Feb-2014				26.34	3816.28
	6-Nov-2013				26.67	3815.95
	6-Aug-2013				25.20	3817.42
	7-May-2013				24.65	3817.97
	7-Feb-2013				24.71	3817.91
	24-Oct-2012				24.96	3817.66
	30-Jul-2012				24.73	3817.89
	23-Apr-2012				24.21	3818.41
	26-Jan-2012				23.52	3819.10
	8-Dec-2011				23.50	3819.12
	19-Jul-2011				22.72	3819.90
	20-Apr-2011				21.74	3820.88
	21-Jan-2011				21.30	3821.32
	14-Sep-2010				20.91	3821.71
	24-Jun-2010				21.13	3821.49
	22-Mar-2010				21.06	3821.56
	8-Dec-2009				20.88	3821.74
	28-Aug-2009				20.83	3821.79
	26-May-2009				20.91	3821.71
	11-Dec-2008				20.29	3822.33
	27-Sep-2008				20.42	3822.20
10-Jun-2008	21.26	3821.36				
6-Feb-2008	20.34	3822.28				
14-Nov-2007	20.32	3822.30				
11-Sep-2007	20.74	3821.88				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
126-07	5-Nov-2015	423613.62	1509986.47	3850.94	36.94	3814.00
	5-Aug-2015				37.39	3813.55
	6-May-2015				36.68	3814.26
	5-Feb-2015				35.62	3815.32
	5-Nov-2014				36.34	3814.60
	12-Aug-2014				36.22	3814.72
	12-May-2014				35.52	3815.42
	12-Feb-2014				34.38	3816.56
	6-Nov-2013				34.89	3816.05
	6-Aug-2013				32.46	3818.48
	7-May-2013				32.33	3818.61
	7-Feb-2013				32.58	3818.36
	24-Oct-2012				32.97	3817.97
	30-Jul-2012				32.60	3818.34
	23-Apr-2012				31.84	3819.10
	26-Jan-2012				31.23	3819.71
	8-Dec-2011				31.28	3819.66
	19-Jul-2011				30.30	3820.64
	20-Apr-2011				28.59	3822.35
	27-Jan-2011				28.43	3822.51
	14-Sep-2010				28.45	3822.49
	24-Jun-2010				28.74	3822.20
	22-Mar-2010				28.57	3822.37
	8-Dec-2009				28.37	3822.57
	28-Aug-2009				28.61	3822.33
	26-May-2009				28.47	3822.47
	11-Dec-2008				27.70	3823.24
27-Sep-2008	27.97	3822.97				
10-Jun-2008	28.78	3822.16				
6-Feb-2008	27.71	3823.23				
14-Nov-2007	27.63	3823.31				
11-Sep-2007	28.06	3822.88				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
126-09	5-Nov-2015	425154.15	1510994.31	3893.35	79.27	3814.08
	5-Aug-2015				79.72	3813.63
	6-May-2015				79.01	3814.34
	5-Feb-2015				77.53	3815.82
	5-Nov-2014				78.21	3815.14
	12-Aug-2014				78.15	3815.20
	12-May-2014				77.70	3815.65
	12-Feb-2014				76.14	3817.21
	6-Nov-2013				76.91	3816.44
	6-Aug-2013				76.09	3817.26
	7-May-2013				75.40	3817.95
	7-Feb-2013				74.61	3818.74
	24-Oct-2012				75.29	3818.06
	30-Jul-2012				74.98	3818.37
	23-Apr-2012				73.98	3819.37
	26-Jan-2012				72.24	3821.11
	8-Dec-2011				73.34	3820.01
	19-Jul-2011				73.19	3820.16
	20-Apr-2011				72.11	3821.24
	21-Jan-2011				71.00	3822.35
	14-Sep-2010				71.52	3821.83
	29-Jun-2010				72.23	3821.12
	22-Mar-2010				71.03	3822.32
	8-Dec-2009				70.94	3822.41
	28-Aug-2009				71.73	3821.62
	26-May-2009				71.12	3822.23
	11-Dec-2008				70.27	3823.08
	27-Sep-2008				70.79	3822.56
10-Jun-2008	71.47	3821.88				
6-Feb-2008	70.08	3823.27				
14-Nov-2007	70.46	3822.89				
11-Sep-2007	71.39	3821.96				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
126-12	5-Nov-2015	421492.11	1510198.45	3838.88	24.05	3814.83
	5-Aug-2015				25.02	3813.86
	6-May-2015				24.78	3814.10
	5-Feb-2015				23.86	3815.02
	5-Nov-2014				23.65	3815.23
	14-Aug-2014				23.37	3815.51
	12-May-2014				23.60	3815.28
	12-Feb-2014				22.46	3816.42
	6-Nov-2013				22.39	3816.49
	6-Aug-2013				21.44	3817.44
	7-May-2013				21.05	3817.83
	7-Feb-2013				20.92	3817.96
	24-Oct-2012				20.53	3818.35
	30-Jul-2012				20.48	3818.40
	23-Apr-2012				20.22	3818.66
	30-Jan-2012				19.79	3819.09
	8-Dec-2011				19.55	3819.33
	19-Jul-2011				18.27	3820.61
	20-Apr-2011				17.62	3821.26
	17-Jan-2011				17.00	3821.88
	16-Sep-2010				16.48	3822.40
	24-Jun-2010				17.30	3821.58
	24-Jun-2010				17.30	3821.58
	22-Mar-2010				17.19	3821.69
	8-Dec-2009				16.99	3821.89
	28-Aug-2009				16.49	3822.39
	26-May-2009				16.85	3822.03
11-Dec-2008	16.37	3822.51				
27-Sep-2008	16.29	3822.59				
10-Jun-2008	17.19	3821.69				
6-Feb-2008	16.62	3822.26				
14-Nov-2007	16.33	3822.55				
11-Sep-2007	16.56	3822.32				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
126-13	5-Nov-2015	423431.96	1510657.41	3857.37	43.55	3813.82
	5-Aug-2015				44.00	3813.37
	6-May-2015				43.34	3814.03
	5-Feb-2015				42.05	3815.32
	5-Nov-2014				42.63	3814.74
	12-Aug-2014				42.60	3814.77
	12-May-2014				42.04	3815.33
	12-Feb-2014				40.78	3816.59
	6-Nov-2013				41.35	3816.02
	6-Aug-2013				39.96	3817.41
	7-May-2013				39.01	3818.36
	7-Feb-2013				39.07	3818.30
	24-Oct-2012				39.60	3817.77
	30-Jul-2012				39.30	3818.07
	23-Apr-2012				38.52	3818.85
	26-Jan-2012				37.80	3819.57
	8-Dec-2011				37.86	3819.51
	19-Jul-2011				37.29	3820.08
	20-Apr-2011				35.23	3822.14
	13-Jan-2011				35.23	3822.14
	14-Sep-2010				35.66	3821.71
	24-Jun-2010				36.01	3821.36
	22-Mar-2010				35.40	3821.97
	8-Dec-2009				35.24	3822.13
	28-Aug-2009				35.60	3821.77
	26-May-2009				35.37	3822.00
	11-Dec-2008				34.62	3822.75
27-Sep-2008	34.99	3822.38				
10-Jun-2008	35.69	3821.68				
6-Feb-2008	NA	NA				
14-Nov-2007	16.33	3841.04				
11-Sep-2007	NA	NA				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Mountain View Dairy</b>						
70-01	6-Nov-2015	423303.43	1510585.63	3851.84	38.07	3813.77
	5-Aug-2015				38.59	3813.25
	6-May-2015				37.85	3813.99
	5-Feb-2015				36.61	3815.23
	5-Nov-2014				37.17	3814.67
	12-Aug-2014				37.18	3814.66
	12-May-2014				36.56	3815.28
	12-Feb-2014				35.33	3816.51
	6-Nov-2013				35.67	3816.17
	6-Aug-2013				34.19	3817.65
	7-May-2013				34.06	3817.78
	7-Feb-2013				33.58	3818.26
	24-Oct-2012				34.08	3817.76
	30-Jul-2012				33.80	3818.04
	23-Apr-2012				33.09	3818.75
	26-Jan-2012				32.29	3819.55
	8-Dec-2011				32.40	3819.44
	9-Jul-2011				31.77	3820.07
	20-Apr-2011				30.69	3821.15
	17-Jan-2011				29.72	3822.12
	14-Sep-2010				30.19	3821.65
	24-Jun-2010				29.30	3822.54
	22-Mar-2010				Unable to open well	
	8-Dec-2009				29.75	3822.09
	28-Aug-2009				30.08	3821.76
	26-May-2009				29.88	3821.96
	11-Dec-2008				29.13	3822.71
	27-Sep-2008				29.79	3822.05
10-Jun-2008	30.20	3821.64				
5-Feb-2008	29.10	3822.74				
13-Nov-2007	29.25	3822.59				
12-Sep-2007	29.77	3822.07				



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
70-02	6-Nov-2015	423412.73	1511192.51	3861.25	47.58	3813.67
	5-Aug-2015				48.06	3813.19
	6-May-2015				47.40	3813.85
	5-Feb-2015				46.00	3815.25
	5-Nov-2014				46.67	3814.58
	13-Aug-2014				46.73	3814.52
	12-May-2014				46.08	3815.17
	12-Feb-2014				44.75	3816.50
	6-Nov-2013				45.31	3815.94
	6-Aug-2013				43.87	3817.38
	7-May-2013				43.16	3818.09
	7-Feb-2013				43.13	3818.12
	24-Oct-2012				43.66	3817.59
	30-Jul-2012				43.33	3817.92
	23-Apr-2012				42.60	3818.65
	26-Jan-2012				41.81	3819.44
	8-Dec-2011				41.89	3819.36
	19-Jul-2011				41.52	3819.73
	20-Apr-2011				40.46	3820.79
	17-Jan-2011				38.90	3822.35
	14-Sep-2010				39.96	3821.29
	24-Jun-2010				39.01	3822.24
	22-Mar-2010				39.54	3821.71
	8-Dec-2009				39.42	3821.83
	28-Aug-2009				39.81	3821.44
	26-May-2009				39.56	3821.69
	11-Dec-2008				38.84	3822.41
	27-Sep-2008				39.20	3822.05
10-Jun-2008	39.90	3821.35				
6-Feb-2008	39.77	3821.48				
14-Nov-2007	39.01	3822.24				
11-Sep-2007	39.60	3821.65				
70-04	6-Nov-2015	422798.94	1510922.20	3849.81	36.17	3813.64
	5-Aug-2015				36.74	3813.07
	6-May-2015				36.13	3813.68
	5-Feb-2015				34.78	3815.03
	5-Nov-2014				35.20	3814.61
	13-Aug-2014				35.31	3814.50
	12-May-2014				34.81	3815.00
	12-Feb-2014				33.52	3816.29
	7-Nov-2013				34.05	3815.76
	6-Aug-2013				32.03	3817.78
	7-May-2013				31.80	3818.01
	7-Feb-2013				31.85	3817.96

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Buena Vista Dairy I</b>						
86-01	5-Nov-2015	421534.62	1511667.76	3864.96	51.43	3813.53
	5-Aug-2015				51.83	3813.13
	6-May-2015				51.44	3813.52
	5-Feb-2015				50.13	3814.83
	5-Nov-2014				50.40	3814.56
	13-Aug-2014				50.29	3814.67
	12-May-2014				50.20	3814.76
	17-Feb-2014				48.87	3816.09
	6-Nov-2013				42.33	3822.63
	6-Aug-2013				47.43	3817.53
	7-May-2013				47.21	3817.75
	7-Feb-2013				47.35	3817.61
	24-Oct-2012				47.61	3817.35
	30-Jul-2012				47.26	3817.70
	23-Apr-2012				46.86	3818.10
	30-Jan-2012				46.34	3818.62
	8-Dec-2011				46.22	3818.74
	19-Jul-2011				45.66	3819.30
	20-Apr-2011				44.28	3820.68
	17-Jan-2011				44.30	3820.66
	16-Sep-2010				44.09	3820.87
	24-Jun-2010				44.39	3820.57
	22-Mar-2010				44.19	3820.77
	8-Dec-2009				43.89	3821.07
	28-Aug-2009				43.96	3821.00
	26-May-2009				44.03	3820.93
11-Dec-2008	43.53	3821.43				
28-Sep-2008	43.60	3821.36				
10-Jun-2008	44.44	3820.52				
5-Feb-2008	43.69	3821.27				
13-Nov-2007	43.78	3821.18				
12-Sep-2007	44.21	3820.75				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
86-02	5-Nov-2015	421792.08	1510881.53	3848.08	33.87	3814.21
	5-Aug-2015				34.35	3813.73
	6-May-2015				33.97	3814.11
	5-Feb-2015				32.88	3815.20
	5-Nov-2014				33.01	3815.07
	12-Aug-2014				32.62	3815.46
	12-May-2014				32.70	3815.38
	12-Feb-2014				31.62	3816.46
	6-Nov-2013				31.68	3816.40
	6-Aug-2013				30.37	3817.71
	7-May-2013				30.13	3817.95
	7-Feb-2013				30.07	3818.01
	24-Oct-2012				29.71	3818.37
	30-Jul-2012				29.71	3818.37
	23-Apr-2012				29.43	3818.65
	30-Jan-2012				28.94	3819.14
	8-Dec-2011				28.77	3819.31
	19-Jul-2011				27.74	3820.34
	20-Apr-2011				27.18	3820.90
	17-Jan-2011				26.34	3821.74
	16-Sep-2010				26.18	3821.90
	24-Jun-2010				26.79	3821.29
	22-Mar-2010				26.54	3821.54
	8-Dec-2009				26.33	3821.75
	28-Aug-2009				26.11	3821.97
	26-May-2009				26.29	3821.79
	11-Dec-2008				25.77	3822.31
	28-Sep-2008				25.78	3822.3
10-Jun-2008	26.65	3821.43				
5-Feb-2008	26.95	3821.13				
13-Nov-2007	25.88	3822.2				
12-Sep-2007	26.19	3821.89				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Bright Star Dairy</b>						
340-01	6-Nov-2015	421410.13	1511423.42	3858.48	44.60	3813.88
	5-Aug-2015				45.01	3813.47
	6-May-2015				44.62	3813.86
	5-Feb-2015				43.56	3814.92
	5-Nov-2014				43.66	3814.82
	12-Aug-2014				43.32	3815.16
	12-May-2014				43.49	3814.99
	12-Feb-2014				42.30	3816.18
	6-Nov-2013				42.33	3816.15
	6-Aug-2013				41.21	3817.27
	7-May-2013				40.80	3817.68
	7-Feb-2013				40.75	3817.73
	24-Oct-2012				40.82	3817.66
	30-Jul-2012				40.44	3818.04
	23-Apr-2012				40.16	3818.32
	25-Jan-2012				39.70	3818.78
	8-Dec-2011				39.54	3818.94
	19-Jul-2011				38.74	3819.74
	20-Apr-2011				38.14	3820.34
	17-Jan-2011				37.33	3821.15
	14-Sep-2010				37.20	3821.28
	24-Jun-2010				38.05	3820.43
	22-Mar-2010				37.48	3821.00
	8-Dec-2009				37.26	3821.22
	28-Aug-2009				37.10	3821.38
	26-May-2009				37.26	3821.22
11-Dec-2008	36.79	3821.69				
27-Sep-2008	36.77	3821.71				
10-Jun-2008	37.63	3820.85				
6-Feb-2008	37.03	3821.45				
14-Nov-2007	37.00	3821.48				
11-Sep-2007	37.36	3821.12				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
340-02	6-Nov-2015	420641.08	1512051.57	3869.76	56.01	3813.75
	5-Aug-2015				56.46	3813.30
	6-May-2015				56.10	3813.66
	5-Feb-2015				55.00	3814.76
	5-Nov-2014				55.05	3814.71
	12-Aug-2014				54.65	3815.11
	12-May-2014				54.80	3814.96
	12-Feb-2014				53.80	3815.96
	6-Nov-2013				53.59	3816.17
	6-Aug-2013				52.92	3816.84
	7-May-2013				52.34	3817.42
	7-Feb-2013				52.29	3817.47
	24-Oct-2012				52.26	3817.50
	30-Jul-2012				51.67	3818.09
	23-Apr-2012				51.61	3818.15
	25-Jan-2012				51.31	3818.45
	8-Dec-2011				51.07	3818.69
	19-Jul-2011				50.24	3819.52
	20-Apr-2011				48.86	3820.90
	17-Jan-2011				49.00	3820.76
	14-Sep-2010				48.80	3820.96
	24-Jun-2010				49.67	3820.09
	22-Mar-2010				49.17	3820.59
	8-Dec-2009				49.03	3820.73
	28-Aug-2009				48.79	3820.97
	26-May-2009				48.94	3820.82
	11-Dec-2008				48.62	3821.14
	28-Sep-2008				48.48	3821.28
10-Jun-2008	49.30	3820.46				
5-Feb-2008	48.90	3820.86				
14-Nov-2007	48.84	3820.92				
12-Sep-2007	49.28	3820.48				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Former D&amp;J Dairy (Dominguez 2)</b>						
42-02	5-Nov-2015	419982.45	1511126.19	3844.68575	29.75	3814.94
	5-Aug-2015				29.41	3815.28
	7-May-2015				29.77	3814.92
	5-Feb-2015				29.23	3815.46
	10-Nov-2014				28.96	3815.73
	13-Aug-2014				27.44	3817.25
	13-May-2014				28.53	3816.16
	12-Feb-2014				27.97	3816.72
	6-Nov-2013				26.34	3818.35
	14-Aug-2013				26.66	3818.03
	7-May-2013				26.53	3818.16
	7-Feb-2013				26.48	3818.21
	24-Oct-2012				25.91	3818.78
	31-Jul-2012				25.05	3819.64
	23-Apr-2012				25.46	3819.23
	26-Jan-2012				25.71	3818.98
	8-Dec-2011				25.35	3819.34
	19-Jul-2011				23.15	3821.54
	19-Apr-2011				22.80	3821.89
	18-Jan-2011				23.30	3821.39
	15-Sep-2010				22.34	3822.35
	24-Jun-2010				22.84	3821.85
	22-Mar-2010				23.16	3821.53
	8-Dec-2009				22.87	3821.82
	28-Aug-2009				22.43	3822.26
	26-May-2009				22.73	3821.96
	11-Dec-2008				22.91	3821.78
	27-Sep-2008				22.28	3822.41
10-Jun-2008	23.12	3821.57				
6-Feb-2008	23.43	3821.26				
13-Nov-2007	23.00	3821.69				
12-Sep-2007	23.15	3821.54				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
42-03	5-Nov-2015	419710.55	1514064.35	3898.46	85.63	3812.83
	5-Aug-2015				87.05	3811.41
	7-May-2015				86.30	3812.16
	5-Feb-2015				84.36	3814.10
	10-Nov-2014				84.63	3813.83
	12-Aug-2014				84.73	3813.73
	13-May-2014				85.05	3813.41
	12-Feb-2014				83.40	3815.06
	6-Nov-2013				83.89	3814.57
	6-Aug-2013				82.46	3816.00
	7-May-2013				81.97	3816.49
	7-Feb-2013				82.01	3816.45
	24-Oct-2012				82.70	3815.76
	31-Jul-2012				82.49	3815.97
	23-Apr-2012				81.57	3816.89
	25-Jan-2012				81.18	3817.28
	8-Dec-2011				81.26	3817.20
	19-Jul-2011				81.33	3817.13
	19-Apr-2011				80.21	3818.25
	18-Jan-2011				79.33	3819.13
	15-Sep-2010				79.91	3818.55
	24-Jun-2010				81.12	3817.34
	22-Mar-2010				79.57	3818.89
	8-Dec-2009				79.12	3819.34
	28-Aug-2009				79.26	3819.20
	26-May-2009				79.42	3819.04
	11-Dec-2008				78.89	3819.57
	27-Sep-2008				78.91	3819.55
10-Jun-2008	79.91	3818.55				
6-Feb-2008	79.76	3818.70				
13-Nov-2007	79.15	3819.31				
12-Sep-2007	79.71	3818.75				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
42-06	5-Nov-2015	420021.61	1511465.15	3850.15	35.37	3814.78
	5-Aug-2015				35.52	3814.63
	7-May-2015				35.70	3814.45
	5-Feb-2015				35.08	3815.07
	10-Nov-2014				34.83	3815.32
	13-Aug-2014				33.65	3816.50
	13-May-2014				34.50	3815.65
	12-Feb-2014				33.85	3816.30
	6-Nov-2013				31.68	3818.47
	6-Aug-2013				31.24	3818.91
	7-May-2013				32.71	3817.44
	7-Feb-2013				32.30	3817.85
	24-Oct-2012				31.80	3818.35
	31-Jul-2012				31.15	3819.00
	23-Apr-2012				31.37	3818.78
	25-Jan-2012				31.51	3818.64
	8-Dec-2011				31.19	3818.96
	19-Jul-2011				29.37	3820.78
	19-Apr-2011				29.66	3820.49
	18-Jan-2011				29.18	3820.97
	15-Sep-2010				28.36	3821.79
	24-Jun-2010				28.96	3821.19
	22-Mar-2010				29.04	3821.11
	8-Dec-2009				28.90	3821.25
	28-Aug-2009				28.44	3821.71
	26-May-2009				28.70	3821.45
	11-Dec-2008				28.75	3821.40
	27-Sep-2008				28.27	3821.88
10-Jun-2008	29.03	3821.12				
6-Feb-2008	29.24	3820.91				
13-Nov-2007	28.87	3821.28				
12-Sep-2007	29.03	3821.12				



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
42-07	5-Nov-2015	420584.8	1513076.66	3891.52	Dry	
	5-Aug-2015				Dry	
	7-May-2015				Dry	
	5-Feb-2015				Dry	
	10-Nov-2014				Dry	
	13-Aug-2014				Dry	
	13-May-2014				Dry	
	12-Feb-2014				Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	24-Oct-2012				Dry	
	31-Jul-2012				Dry	
	23-Apr-2012				Dry	
	25-Jan-2012				Dry	
	8-Dec-2011				Dry	
	19-Jul-2011				Dry	
	19-Apr-2011				72.19	3819.33
	18-Jan-2011				71.37	3820.15
	15-Sep-2010				71.64	3819.88
	24-Jun-2010				72.24	3819.28
	22-Mar-2010				71.43	3820.09
	8-Dec-2009				71.26	3820.26
	28-Aug-2009				71.26	3820.26
	26-May-2009				71.31	3820.21
	11-Dec-2008				70.87	3820.65
	27-Sep-2008				70.95	3820.57
	10-Jun-2008				71.71	3819.81
	6-Feb-2008				71.00	3820.52
13-Nov-2007	71.12	3820.40				
12-Sep-2007	71.61	3819.91				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
42-08	5-Nov-2015	419994.93	1511197.91	3846.53	Dry	
	5-Aug-2015				31.45	3815.08
	7-May-2015				31.77	3814.76
	5-Feb-2015				31.23	3815.30
	10-Nov-2014				30.97	3815.56
	13-Aug-2014				29.54	3816.99
	13-May-2014				30.68	3815.85
	12-Feb-2014				29.98	3816.55
	6-Nov-2013				28.26	3818.27
	6-Aug-2013				27.97	3818.56
	7-May-2013				28.69	3817.84
	7-Feb-2013				28.43	3818.10
	24-Oct-2012				27.92	3818.61
	31-Jul-2012				27.11	3819.42
	23-Apr-2012				27.51	3819.02
	26-Jan-2012				27.68	3818.85
	8-Dec-2011				27.33	3819.20
	19-Jul-2011				25.24	3821.29
	19-Apr-2011				25.72	3820.81
	18-Jan-2011				25.28	3821.25
	15-Sep-2010				24.37	3822.16
	24-Jun-2010				24.91	3821.62
	22-Mar-2010				25.15	3821.38
	8-Dec-2009				24.91	3821.62
	28-Aug-2009				24.46	3822.07
	26-May-2009				24.75	3821.78
	11-Dec-2008				24.88	3821.65
27-Sep-2008	24.30	3822.23				
10-Jun-2008	25.13	3821.40				
6-Feb-2008	25.41	3821.12				
13-Nov-2007	25.00	3821.53				
12-Sep-2007	25.13	3821.40				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
42-09	5-Nov-2015	419729.17	1512255.76	3865.25	Damaged	
	5-Aug-2015				51.34	3813.91
	7-May-2015				51.23	3814.02
	5-Feb-2015				50.51	3814.74
	10-Nov-2014				50.21	3815.04
	12-Aug-2014				49.45	3815.80
	13-May-2014				49.85	3815.40
	12-Feb-2014				49.36	3815.89
	6-Nov-2013				48.23	3817.02
	6-Aug-2013				47.88	3817.37
	7-May-2013				48.04	3817.21
	7-Feb-2013				47.79	3817.46
	24-Oct-2012				47.29	3817.96
	31-Jul-2012				46.98	3818.27
	23-Apr-2012				46.93	3818.32
	25-Jan-2012				46.95	3818.30
	8-Dec-2011				46.76	3818.49
	19-Jul-2011				45.54	3819.71
	19-Apr-2011				45.38	3819.87
	18-Jan-2011				44.87	3820.38
	15-Sep-2010				44.21	3821.04
	24-Jun-2010				44.99	3820.26
	22-Mar-2010				44.72	3820.53
	8-Dec-2009				44.70	3820.55
	28-Aug-2009				44.32	3820.93
	26-May-2009				44.50	3820.75
	11-Dec-2008				44.39	3820.86
27-Sep-2008	44.12	3821.13				
10-Jun-2008	44.77	3820.48				
6-Feb-2008	44.80	3820.45				
13-Nov-2007	44.47	3820.78				
12-Sep-2007	44.73	3820.52				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
42-10	5-Nov-2015	421426.39	1514460.4	3929.28	116.29	3812.99
	5-Aug-2015				117.00	3812.28
	12-May-2015				116.10	3813.18
	6-Feb-2015				114.95	3814.33
	10-Nov-2014				115.52	3813.76
	14-Aug-2014				115.37	3813.91
	13-May-2014				115.15	3814.13
	12-Feb-2014				113.97	3815.31
	6-Nov-2013				115.21	3814.07
	6-Aug-2013				113.03	3816.25
	7-May-2013				112.81	3816.47
	7-Feb-2013				112.29	3816.99
	24-Oct-2012				112.95	3816.33
	31-Jul-2012				112.87	3816.41
	23-Apr-2012				111.87	3817.41
	25-Jan-2012				110.98	3818.30
	8-Dec-2011				111.16	3818.12
	19-Jul-2011				111.21	3818.07
	19-Apr-2011				110.06	3819.22
	18-Jan-2011				109.19	3820.09
	15-Sep-2010				110.24	3819.04
	27-Jun-2010				110.35	3818.93
	22-Mar-2010				109.47	3819.81
	8-Dec-2009				109.41	3819.87
	28-Aug-2009				109.67	3819.61
	26-May-2009				109.53	3819.75
	11-Dec-2008				109.00	3820.28
	27-Sep-2008				109.49	3819.79
11-Jun-2008	109.88	3819.40				
6-Feb-2008	108.98	3820.30				
14-Nov-2007	109.36	3819.92				
12-Sep-2007	109.92	3819.36				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
42-11	5-Nov-2015	420693.98	1515270.32	3939.31	126.80	3812.51
	5-Aug-2015				127.08	3812.23
	12-May-2015				126.42	3812.89
	6-Feb-2015				125.43	3813.88
	10-Nov-2014				125.97	3813.34
	14-Aug-2014				125.85	3813.46
	13-May-2014				125.27	3814.04
	12-Feb-2014				123.96	3815.35
	6-Nov-2013				125.37	3813.94
	6-Aug-2013				124.06	3815.25
	7-May-2013				123.24	3816.07
	7-Feb-2013				122.91	3816.40
	24-Oct-2012				123.44	3815.87
	31-Jul-2012				123.11	3816.20
	23-Apr-2012				122.09	3817.22
	25-Jan-2012				121.67	3817.64
	8-Dec-2011				121.83	3817.48
	19-Jul-2011				121.73	3817.58
	19-Apr-2011				120.64	3818.67
	18-Jan-2011				120.01	3819.30
	15-Sep-2010				121.02	3818.29
	27-Jun-2010				121.05	3818.26
	22-Mar-2010				120.18	3819.13
	8-Dec-2009				120.21	3819.10
	28-Aug-2009				120.51	3818.80
	26-May-2009				120.35	3818.96
	11-Dec-2008				119.88	3819.43
	27-Sep-2008				120.29	3819.02
11-Jun-2008	120.57	3818.74				
6-Feb-2008	119.84	3819.47				
14-Nov-2007	120.24	3819.07				
12-Sep-2007	120.74	3818.57				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
42-12	5-Nov-2015	420972.09	1515423.88	3945.83	133.16	3812.67
	5-Aug-2015				134.36	3811.47
	7-May-2015				133.05	3812.78
	6-Feb-2015				131.76	3814.07
	10-Nov-2014				132.31	3813.52
	14-Aug-2014				132.13	3813.70
	13-May-2014				131.63	3814.20
	12-Feb-2014				129.89	3815.94
	6-Nov-2013				131.11	3814.72
	6-Aug-2013				130.08	3815.75
	7-May-2013				129.59	3816.24
	7-Feb-2013				129.18	3816.65
	24-Oct-2012				129.74	3816.09
	31-Jul-2012				129.44	3816.39
	23-Apr-2012				128.71	3817.12
	25-Jan-2012				128.06	3817.77
	8-Dec-2011				128.14	3817.69
	19-Jul-2011				128.01	3817.82
	19-Apr-2011				126.37	3819.46
	18-Jan-2011				126.37	3819.46
	15-Sep-2010				127.38	3818.45
	27-Jun-2010				127.43	3818.40
	22-Mar-2010				126.50	3819.33
	8-Dec-2009				126.60	3819.23
	28-Aug-2009				126.84	3818.99
	26-May-2009				126.68	3819.15
	11-Dec-2008				126.18	3819.65
	27-Sep-2008				126.68	3819.15
11-Jun-2008	126.88	3818.95				
6-Feb-2008	126.16	3819.67				
14-Nov-2007	126.55	3819.28				
12-Sep-2007	127.04	3818.79				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
42-13	5-Nov-2015	419734.06	1512534.42	3873.10	59.28	3813.82
	5-Aug-2015				59.04	3814.06
	7-May-2015				59.37	3813.73
	5-Feb-2015				58.50	3814.60
	10-Nov-2014				57.27	3815.83
	12-Aug-2014				57.56	3815.54
	13-May-2014				57.95	3815.15
	17-Feb-2014				57.38	3815.72
	6-Nov-2013				56.31	3816.79
	6-Aug-2013				56.01	3817.09
	7-May-2013				56.02	3817.08
	7-Feb-2013				55.86	3817.24
	24-Oct-2012				55.40	3817.70
	31-Jul-2012				55.17	3817.93
	23-Apr-2012				54.96	3818.14
	25-Jan-2012				54.99	3818.11
	8-Dec-2011				54.83	3818.27
	19-Jul-2011				53.77	3819.33
	19-Apr-2011				53.50	3819.60
	18-Jan-2011				52.95	3820.15
	15-Sep-2010				52.44	3820.66
	24-Jun-2010				53.21	3819.89
	22-Mar-2010				52.84	3820.26
	8-Dec-2009				52.79	3820.31
	28-Aug-2009				52.45	3820.65
	26-May-2009				52.64	3820.46
	11-Dec-2008				52.49	3820.61
	27-Sep-2008				52.23	3820.87
10-Jun-2008	52.91	3820.19				
6-Feb-2008	52.84	3820.26				
13-Nov-2007	52.56	3820.54				
12-Sep-2007	52.83	3820.27				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Dominguez Dairy</b>						
624-01	5-Nov-2015	418826.21	1512131.46	3843.72	29.23	3814.49
	5-Aug-2015				28.20	3815.52
	6-May-2015				28.06	3815.66
	5-Feb-2015				28.95	3814.77
	10-Nov-2014				28.24	3815.48
	12-Aug-2014				26.64	3817.08
	12-May-2014				27.38	3816.34
	12-Feb-2014				28.10	3815.62
	7-Nov-2013				26.34	3817.38
	6-Aug-2013				25.98	3817.74
	7-May-2013				26.21	3817.51
	7-Feb-2013				26.39	3817.33
	24-Oct-2012				25.89	3817.83
	30-Jul-2012				26.12	3817.60
	24-Apr-2012				26.02	3817.70
	25-Jan-2012				25.51	3818.21
	7-Dec-2011				25.19	3818.53
	19-Jul-2011				23.22	3820.50
	19-Apr-2011				23.75	3819.97
	18-Jan-2011				23.53	3820.19
	15-Sep-2010				21.40	3822.32
	24-Jun-2010				22.48	3821.24
	22-Mar-2010				22.83	3820.89
	8-Dec-2009				23.33	3820.39
	28-Aug-2009				22.72	3821.00
	27-May-2009				22.92	3820.80
11-Dec-2008	23.11	3820.61				
27-Sep-2008	22.62	3821.10				
10-Jun-2008	22.72	3821.00				
5-Feb-2008	23.64	3820.08				
13-Nov-2007	22.87	3820.85				
12-Sep-2007	22.94	3820.78				



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
624-02	5-Nov-2015	417335.25	1512201.42	3835.45	20.82	3814.63
	5-Aug-2015				19.45	3816.00
	6-May-2015				19.81	3815.64
	5-Feb-2015				20.95	3814.50
	6-Nov-2014				19.65	3815.80
	12-Aug-2014				19.12	3816.33
	12-May-2014				19.00	3816.45
	12-Feb-2014				20.00	3815.45
	7-Nov-2013				18.60	3816.85
	6-Aug-2013				18.83	3816.62
	7-May-2013				19.01	3816.44
	7-Feb-2013				19.10	3816.35
	24-Oct-2012				18.85	3816.60
	30-Jul-2012				18.59	3816.86
	23-Apr-2012				17.97	3817.48
	24-Jan-2012				17.16	3818.29
	7-Dec-2011				17.30	3818.15
	19-Jul-2011				15.23	3820.22
	19-Apr-2011				15.94	3819.51
	17-Jan-2011				15.66	3819.79
	20-Sep-2010				14.04	3821.41
	24-Jun-2010				13.93	3821.52
	22-Mar-2010				15.24	3820.21
	8-Dec-2009				15.61	3819.84
	28-Aug-2009				14.85	3820.60
	27-May-2009				15.14	3820.31
	11-Dec-2008				15.47	3819.98
	27-Sep-2008				14.97	3820.48
10-Jun-2008	14.87	3820.58				
5-Feb-2008	16.50	3818.95				
13-Nov-2007	15.40	3820.05				
12-Sep-2007	14.94	3820.51				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
624-04	5-Nov-2015	418542.24	1508104.07	3835.69	Dry	
	5-Aug-2015				Dry	
	6-May-2015				Dry	
	5-Feb-2015				Dry	
	6-Nov-2014				Dry	
	12-Aug-2014				Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	24-Oct-2012				Dry	
	30-Jul-2012				Dry	
	23-Apr-2012				Dry	
	25-Jan-2012				Dry	
	8-Dec-2011				Dry	
	19-Jul-2011				15.39	3820.30
	19-Apr-2011				13.66	3822.03
	18-Jan-2011				13.99	3821.70
	15-Sep-2010				11.43	3824.26
	24-Jun-2010				13.49	3822.20
	22-Mar-2010				14.83	3820.86
	8-Dec-2009				13.48	3822.21
	28-Aug-2009				12.49	3823.20
	26-May-2009				12.89	3822.80
	11-Dec-2008				12.99	3822.70
	27-Sep-2008				12.31	3823.38
	10-Jun-2008				14.45	3821.24
	5-Feb-2008				14.13	3821.56
	13-Nov-2007				13.60	3822.09
	12-Sep-2007				14.83	3820.86

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
624-05	5-Nov-2015	419777.52	1509829.65	3835.27	Dry	
	5-Aug-2015				Dry	
	6-May-2015				Dry	
	5-Feb-2015				Dry	
	6-Nov-2014				Dry	
	12-Aug-2014				Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				16.72	3818.55
	24-Oct-2012				16.35	3818.92
	30-Jul-2012				15.89	3819.38
	23-Apr-2012				15.90	3819.37
	25-Jan-2012				15.81	3819.46
	7-Dec-2011				15.25	3820.02
	3-Aug-2011				13.38	3821.89
	19-Apr-2011				13.86	3821.41
	18-Jan-2011				13.11	3822.16
	15-Sep-2010				12.01	3823.26
	24-Jun-2010				12.71	3822.56
	22-Mar-2010				13.21	3822.06
	8-Dec-2009				12.54	3822.73
	28-Aug-2009				12.03	3823.24
	26-May-2009				12.58	3822.69
	11-Dec-2008				12.82	3822.45
	27-Sep-2008				11.97	3823.30
	10-Jun-2008				13.19	3822.08
	5-Feb-2008				13.44	3821.83
13-Nov-2007	13.01	3822.26				
12-Sep-2007	13.31	3821.96				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>	
624-06	5-Nov-2015	418502.42	1513981.08	3868.18		Dry	
	5-Aug-2015					Dry	
	6-May-2015					Dry	
	5-Feb-2015					Dry	
	6-Nov-2014					Dry	
	12-Aug-2014					Dry	
	12-May-2014					Dry	
	12-Feb-2014					Dry	
	7-Nov-2013					Dry	
	6-Aug-2013					Dry	
	7-May-2013					Dry	
	7-Feb-2013					51.84	3816.34
	24-Oct-2012					51.99	3816.19
	30-Jul-2012					51.30	3816.88
	23-Apr-2012					51.83	3816.35
	25-Jan-2012					51.80	3816.38
	13-Dec-2011					50.89	3817.29
	19-Jul-2011					50.43	3817.75
	19-Apr-2011					49.79	3818.39
	18-Jan-2011					49.31	3818.87
	21-Sep-2010					48.73	3819.45
	24-Jun-2010					50.33	3817.85
	22-Mar-2010					49.62	3818.56
	8-Dec-2009					48.96	3819.22
	28-Aug-2009					48.87	3819.31
	26-May-2009					49.14	3819.04
	11-Dec-2008					48.89	3819.29
	27-Sep-2008					48.71	3819.47
	10-Jun-2008					49.67	3818.51
	5-Feb-2008					49.11	3819.07
13-Nov-2007		48.94	3819.24				
12-Sep-2007		49.17	3819.01				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
624-07	5-Nov-2015	418012.23	1514707.77	3872.25	55.60	3816.65
	5-Aug-2015				55.56	3816.69
	6-May-2015				55.57	3816.68
	5-Feb-2015				55.53	3816.72
	6-Nov-2014				55.57	3816.68
	12-Aug-2014				55.68	3816.57
	12-May-2014				55.61	3816.64
	12-Feb-2014				55.62	3816.63
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	24-Oct-2012				55.58	3816.67
	30-Jul-2012				55.47	3816.78
	23-Apr-2012				Dry	
	25-Jan-2012				55.50	3816.75
	13-Dec-2011				55.46	3816.79
	19-Jul-2011				54.55	3817.70
	19-Apr-2011				54.64	3817.61
	18-Jan-2011				53.91	3818.34
	15-Sep-2010				52.30	3819.95
	24-Jun-2010				55.27	3816.98
	22-Mar-2010				54.21	3818.04
	8-Dec-2009				53.32	3818.93
	28-Aug-2009				53.22	3819.03
	26-May-2009				53.76	3818.49
	11-Dec-2008				53.59	3818.66
	27-Sep-2008				53.35	3818.90
	10-Jun-2008				54.34	3817.91
	5-Feb-2008				53.81	3818.44
13-Nov-2007	53.26	3818.99				
12-Sep-2007	53.03	3819.22				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>	
624-08	5-Nov-2015	421461.78	1507712.04	3838.70		Dry	
	5-Aug-2015					Dry	
	6-May-2015					Dry	
	5-Feb-2015					Dry	
	6-Nov-2014					Dry	
	12-Aug-2014					Dry	
	12-May-2014					Dry	
	12-Feb-2014					Dry	
	7-Nov-2013					Dry	
	6-Aug-2013					Dry	
	7-May-2013					Dry	
	7-Feb-2013					Dry	
	24-Oct-2012					Dry	
	30-Jul-2012					Dry	
	23-Apr-2012					Dry	
	25-Jan-2012					Dry	
	8-Dec-2011					Dry	
	3-Aug-2011					Dry	
	18-Apr-2011					17.72	3820.98
	18-Jan-2011					16.03	3822.67
	14-Sep-2010					14.83	3823.87
	24-Jun-2010					16.44	3822.26
	22-Mar-2010					16.42	3822.28
	8-Dec-2009					16.02	3822.68
	28-Aug-2009					15.20	3823.50
	26-May-2009					15.54	3823.16
	11-Dec-2008					14.96	3823.74
	27-Sep-2008					14.84	3823.86
	10-Jun-2008					16.12	3822.58
	5-Feb-2008					15.37	3823.33
13-Nov-2007		14.71	3823.99				
12-Sep-2007		15.33	3823.37				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Gonzalez Dairy</b>						
177-01	5-Nov-2015	417300.94	1512942.63	3834.27	20.22	3814.05
	13-Aug-2015				19.21	3815.06
	6-May-2015				19.40	3814.87
	6-Feb-2015				20.14	3814.13
	10-Nov-2014				19.12	3815.15
	13-Aug-2014				17.33	3816.94
	13-May-2014				18.53	3815.74
	12-Feb-2014				19.05	3815.22
	7-Nov-2013				17.97	3816.30
	6-Aug-2013				17.01	3817.26
	7-May-2013				17.81	3816.46
	7-Feb-2013				17.77	3816.50
	25-Oct-2012				15.91	3818.36
	30-Jul-2012				14.88	3819.39
	23-Apr-2012				16.32	3817.95
	26-Jan-2012				16.71	3817.56
	7-Dec-2011				16.36	3817.91
	19-Jul-2011				14.64	3819.63
	19-Apr-2011				14.84	3819.43
	17-Jan-2011				14.43	3819.84
	15-Sep-2010				13.30	3820.97
	23-Jun-2010				14.11	3820.16
	22-Mar-2010				14.75	3819.52
	8-Dec-2009				14.68	3819.59
	28-Aug-2009				14.16	3820.11
	26-May-2009				14.35	3819.92
	10-Dec-2008				14.64	3819.63
	27-Sep-2008				14.21	3820.06
10-Jun-2008	14.50	3819.77				
6-Feb-2008	15.06	3819.21				
13-Nov-2007	14.53	3819.74				
13-Sep-2007	14.03	3820.24				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
177-02	5-Nov-2015	416738.21	1513246.51	3834.66	20.88	3813.78
	5-Aug-2015				19.91	3814.75
	6-May-2015				20.13	3814.53
	6-Feb-2015				20.75	3813.91
	10-Nov-2014				19.80	3814.86
	13-Aug-2014				18.21	3816.45
	13-May-2014				19.24	3815.42
	12-Feb-2014				19.72	3814.94
	7-Nov-2013				18.66	3816.00
	6-Aug-2013				18.30	3816.36
	7-May-2013				18.69	3815.97
	7-Feb-2013				18.50	3816.16
	25-Oct-2012				17.35	3817.31
	30-Jul-2012				17.80	3816.86
	24-Jan-2012				17.61	3817.05
	7-Dec-2011				16.92	3817.74
	19-Jul-2011				15.41	3819.25
	19-Apr-2011				15.47	3819.19
	17-Jan-2011				14.94	3819.72
	15-Sep-2010				14.23	3820.43
	23-Jun-2010				14.86	3819.80
	22-Mar-2010				15.59	3819.07
	8-Dec-2009				15.29	3819.37
	28-Aug-2009				14.90	3819.76
	26-May-2009				15.09	3819.57
10-Dec-2008	15.37	3819.29				
27-Sep-2008	14.95	3819.71				
10-Jun-2008	15.41	3819.25				
6-Feb-2008	15.74	3818.92				
13-Nov-2007	15.39	3819.27				
13-Sep-2007	14.72	3819.94				
177-03A	5-Nov-2015	416206.71	1513777.17	3835.75	22.68	3813.07
	5-Aug-2015				22.05	3813.70
	6-May-2015				22.26	3813.49
	6-Feb-2015				22.30	3813.45
	10-Nov-2014				21.61	3814.14
	13-Aug-2014				20.51	3815.24
	12-May-2014				21.60	3814.15
	12-Feb-2014				21.41	3814.34
	7-Nov-2013				20.29	3815.46
	6-Aug-2013				19.99	3815.76
	7-May-2013				20.53	3815.22
	7-Feb-2013				20.01	3815.74
	25-Oct-2012				19.18	3816.57
	30-Jul-2012				18.24	3817.51
	24-Apr-2012				18.57	3817.18
	24-Jan-2012				18.63	3817.12
	13-Dec-2011				18.51	3817.24



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
177-04	5-Nov-2015	416796.99	1513733.28	3840.33	26.89	3813.44
	5-Aug-2015				26.25	3814.08
	6-May-2015				26.49	3813.84
	6-Feb-2015				26.58	3813.75
	10-Nov-2014				25.75	3814.58
	13-Aug-2014				24.52	3815.81
	13-May-2014				25.46	3814.87
	12-Feb-2014				25.62	3814.71
	7-Nov-2013				24.75	3815.58
	6-Aug-2013				24.12	3816.21
	7-May-2013				24.67	3815.66
	7-Feb-2013				24.29	3816.04
	25-Oct-2012				23.49	3816.84
	30-Jul-2012				22.68	3817.65
	24-Apr-2012				23.36	3816.97
	24-Jan-2012				22.47	3817.86
	7-Dec-2011				22.97	3817.36
	19-Jul-2011				21.66	3818.67
	19-Apr-2011				21.41	3818.92
	17-Jan-2011				21.22	3819.11
	15-Sep-2010				20.36	3819.97
	23-Jun-2010				21.05	3819.28
	22-Mar-2010				21.71	3818.62
	8-Dec-2009				21.14	3819.19
	28-Aug-2009				20.86	3819.47
	27-May-2009				21.13	3819.20
	10-Dec-2008				21.37	3818.96
	27-Sep-2008				20.86	3819.47
10-Jun-2008	21.63	3818.70				
6-Feb-2008	21.59	3818.74				
13-Nov-2007	21.30	3819.03				
13-Sep-2007	20.84	3819.49				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
177-05	5-Nov-2015	417302.42	1514116.55	3852.16	38.90	3813.26
	5-Aug-2015				38.65	3813.51
	6-May-2015				38.97	3813.19
	6-Feb-2015				38.48	3813.68
	10-Nov-2014				37.80	3814.36
	13-Aug-2014				36.70	3815.46
	13-May-2014				37.60	3814.56
	12-Feb-2014				37.51	3814.65
	6-Nov-2013				36.95	3815.21
	6-Aug-2013				36.02	3816.14
	7-May-2013				36.74	3815.42
	7-Feb-2013				36.21	3815.95
	25-Oct-2012				35.72	3816.44
	30-Jul-2012				36.39	3815.77
	24-Apr-2012				36.04	3816.12
	24-Jan-2012				35.02	3817.14
	7-Dec-2011				35.19	3816.97
	19-Jul-2011				34.07	3818.09
	19-Apr-2011				32.91	3819.25
	17-Jan-2011				33.72	3818.44
	15-Sep-2010				32.68	3819.48
	23-Jun-2010				33.59	3818.57
	22-Mar-2010				34.10	3818.06
	8-Dec-2009				33.22	3818.94
	28-Aug-2009				32.95	3819.21
	26-May-2009				33.26	3818.90
10-Dec-2008	33.60	3818.56				
27-Sep-2008	32.95	3819.21				
10-Jun-2008	33.96	3818.20				
6-Feb-2008	33.58	3818.58				
13-Nov-2007	33.27	3818.89				
13-Sep-2007	33.12	3819.04				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
177-06	5-Nov-2015	417301.84	1514765.63	3866.02	Dry	
	5-Aug-2015				Dry	
	6-May-2015				Dry	
	6-Feb-2015				Dry	
	5-Nov-2014				Dry	
	13-Aug-2014				Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				51.65	3814.37
	6-Aug-2013				51.11	3814.91
	7-May-2013				51.50	3814.52
	7-Feb-2013				50.43	3815.59
	25-Oct-2012				50.81	3815.21
	30-Jul-2012				51.09	3814.93
	24-Apr-2012				Dry	
	24-Jan-2012				49.40	3816.62
	7-Dec-2011				49.85	3816.17
	19-Jul-2011				49.31	3816.71
	19-Apr-2011				48.92	3817.10
	17-Jan-2011				48.18	3817.84
	15-Sep-2010				47.64	3818.38
	23-Jun-2010				48.79	3817.23
	22-Mar-2010				49.12	3816.90
	8-Dec-2009				47.60	3818.42
	28-Aug-2009				47.53	3818.49
	26-May-2009				48.03	3817.99
	10-Dec-2008				48.72	3817.30
	27-Sep-2008				47.52	3818.50
10-Jun-2008	49.31	3816.71				
6-Feb-2008	48.00	3818.02				
13-Nov-2007	48.88	3817.14				
13-Sep-2007	48.84	3817.18				
177-07R	5-Nov-2015	415240.93	1515476.47	3858.91	47.57	3811.34
	5-Aug-2015				47.67	3811.24
	6-May-2015				47.35	3811.56
	6-Feb-2015				46.70	3812.21
	10-Nov-2014				46.53	3812.38
	13-Aug-2014				45.50	3813.41
	13-May-2014				46.66	3812.25
	12-Feb-2014				45.90	3813.01
	7-Nov-2013				45.50	3813.41
	6-Aug-2013				45.51	3813.40
	7-May-2013				45.22	3813.69
	7-Feb-2013				44.44	3814.47
	25-Oct-2012				43.98	3814.93
	30-Jul-2012				43.60	3815.31
	24-Apr-2012				43.56	3815.35
	24-Jan-2012				43.08	3815.83
	7-Dec-2011				43.46	3815.45
	19-Jul-2011				42.91	3816.00
19-Apr-2011	41.96	3816.95				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
177-07	5-Nov-2014	415258.95	1515471.64	3859.96	Plugged and Abandoned	
	17-Jan-2011				Dry	
	15-Sep-2010				Dry	
	23-Jun-2010				Dry	
	22-Mar-2010				Dry	
	8-Dec-2009				Dry	
	10-Dec-2008				Dry	
	27-Sep-2008				Dry	
	10-Jun-2008				Dry	
	6-Feb-2008				Dry	
	13-Nov-2007				Dry	
	13-Sep-2007				Dry	
	<b>CENTRAL AREA</b>					
<b>Buena Vista Dairy II</b>						
74-01	5-Nov-2015	405434.93	1519310.15	3841.01	36.63	3804.38
	6-Aug-2015				37.05	3803.96
	6-May-2015				37.38	3803.63
	5-Feb-2015				35.45	3805.56
	5-Nov-2014				36.66	3804.35
	13-Aug-2014				36.71	3804.30
	18-Jun-2014				37.09	3803.92
	12-Feb-2014				35.17	3805.84
	6-Nov-2013				35.77	3805.24
	6-Aug-2013				36.56	3804.45
	7-May-2013				35.02	3805.99
	7-Feb-2013				33.64	3807.37
	25-Oct-2012				34.94	3806.07
	31-Jul-2012				34.53	3806.48
	24-Apr-2012				34.27	3806.74
	24-Jan-2012				33.36	3807.65
	8-Dec-2011				33.63	3807.38
	19-Jul-2011				33.31	3807.70
	20-Apr-2011				31.97	3809.04
	21-Jan-2011				32.23	3808.78
	16-Sep-2010				31.97	3809.04
	23-Jun-2010				32.08	3808.93
	22-Mar-2010				32.07	3808.94
	8-Dec-2009				31.45	3809.56
	28-Aug-2009				32.20	3808.81
	26-May-2009				32.20	3808.81
	10-Dec-2008				31.31	3809.70
	27-Sep-2008				31.64	3809.37
10-Jun-2008	32.00	3809.01				
5-Feb-2008	31.66	3809.35				
14-Nov-2007	31.21	3809.80				
12-Sep-2007	31.63	3809.38				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Buena Vista Dairy II Continued</b>						
74-02	5-Nov-2015	404574.08	1519035.52	3820.58	17.16	3803.42
	6-Aug-2015				17.89	3802.69
	6-May-2015				18.11	3802.47
	5-Feb-2015				16.00	3804.58
	5-Nov-2014				17.16	3803.42
	13-Aug-2014				17.50	3803.08
	18-Jun-2014				18.13	3802.45
	12-Feb-2014				15.75	3804.83
	6-Nov-2013				17.07	3803.51
	6-Aug-2013				17.55	3803.03
	7-May-2013				16.22	3804.36
	7-Feb-2013				15.84	3804.74
	25-Oct-2012				16.02	3804.56
	31-Jul-2012				15.09	3805.49
	24-Apr-2012				14.30	3806.28
	24-Jan-2012				13.96	3806.62
	8-Dec-2011				15.49	3805.09
	19-Jul-2011				14.19	3806.39
	20-Apr-2011				12.45	3808.13
	17-Jan-2011				12.53	3808.05
	16-Sep-2010				12.45	3808.13
	23-Jun-2010				12.87	3807.71
	22-Mar-2010				12.72	3807.86
	8-Dec-2009				11.88	3808.70
	28-Aug-2009				12.53	3808.05
	26-May-2009				12.70	3807.88
	10-Dec-2008				11.65	3808.93
27-Sep-2008	12.03	3808.55				
10-Jun-2008	12.39	3808.19				
5-Feb-2008	11.94	3808.64				
14-Nov-2007	11.52	3809.06				
12-Sep-2007	12.33	3808.25				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
74-03	5-Nov-2015	407163.61	1516711.72	3823.36	16.10	3807.26
	5-Aug-2015				16.16	3807.20
	6-May-2015				16.29	3807.07
	5-Feb-2015				15.75	3807.61
	5-Nov-2014				15.67	3807.69
	13-Aug-2014				16.07	3807.29
	18-Jun-2014				16.73	3806.63
	12-Feb-2014				15.63	3807.73
	6-Nov-2013				15.53	3807.83
	6-Aug-2013				15.43	3807.93
	7-May-2013				14.85	3808.51
	7-Feb-2013				13.93	3809.43
	25-Oct-2012				14.22	3809.14
	31-Jul-2012				14.17	3809.19
	24-Apr-2012				13.99	3809.37
	24-Jan-2012				13.60	3809.76
	8-Dec-2011				13.70	3809.66
	19-Jul-2011				13.17	3810.19
	20-Apr-2011				12.11	3811.25
	17-Jan-2011				12.63	3810.73
	16-Sep-2010				12.41	3810.95
	23-Jun-2010				12.72	3810.64
	22-Mar-2010				12.94	3810.42
	8-Dec-2009				12.88	3810.48
	28-Aug-2009				12.63	3810.73
	26-May-2009				12.94	3810.42
	10-Dec-2008				13.00	3810.36
	27-Sep-2008				12.94	3810.42
	10-Jun-2008				12.66	3810.7
	5-Feb-2008				12.94	3810.42
14-Nov-2007	12.77	3810.59				
12-Sep-2007	12.53	3810.83				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
74-04	5-Nov-2015	405488.65	1519864.48	3853.17	49.03	3804.14
	6-Aug-2015				49.21	3803.96
	6-May-2015				49.44	3803.73
	5-Feb-2015				47.86	3805.31
	5-Nov-2014				49.58	3803.59
	13-Aug-2014				49.12	3804.05
	18-Jun-2014				49.35	3803.82
	12-Feb-2014				47.75	3805.42
	6-Nov-2013				48.06	3805.11
	6-Aug-2013				48.55	3804.62
	7-May-2013				47.45	3805.72
	7-Feb-2013				46.31	3806.86
	25-Oct-2012				46.96	3806.21
	31-Jul-2012				47.16	3806.01
	24-Apr-2012				47.05	3806.12
	24-Jan-2012				45.78	3807.39
	8-Dec-2011				45.98	3807.19
	19-Jul-2011				45.61	3807.56
	20-Apr-2011				44.19	3808.98
	17-Jan-2011				44.02	3809.15
	16-Sep-2010				44.19	3808.98
	23-Jun-2010				44.26	3808.91
	22-Mar-2010				44.25	3808.92
	8-Dec-2009				43.86	3809.31
	28-Aug-2009				44.49	3808.68
	26-May-2009				44.56	3808.61
10-Dec-2008	43.70	3809.47				
27-Sep-2008	43.99	3809.18				
10-Jun-2008	44.40	3808.77				
5-Feb-2008	43.41	3809.76				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
74-05	5-Nov-2015	404747.71	1519885.3	3845.35	42.00	3803.35
	6-Aug-2015				42.35	3803.00
	6-May-2015				41.63	3803.72
	5-Feb-2015				40.78	3804.57
	5-Nov-2014				41.99	3803.36
	13-Aug-2014				42.28	3803.07
	18-Jun-2014				42.73	3802.62
	12-Feb-2014				40.76	3804.59
	6-Nov-2013				41.17	3804.18
	6-Aug-2013				41.80	3803.55
	7-May-2013				40.98	3804.37
	7-Feb-2013				39.40	3805.95
	25-Oct-2012				40.33	3805.02
	31-Jul-2012				40.19	3805.16
	24-Apr-2012				40.05	3805.30
	24-Jan-2012				38.78	3806.57
	8-Dec-2011				39.18	3806.17
	19-Jul-2011				38.84	3806.51
	20-Apr-2011				37.99	3807.36
	17-Jan-2011				36.96	3808.39
	16-Sep-2010				37.00	3808.35
	23-Jun-2010				37.44	3807.91
	22-Mar-2010				37.23	3808.12
	8-Dec-2009				36.74	3808.61
	28-Aug-2009				37.32	3808.03
	26-May-2009				37.47	3807.88
10-Dec-2008	36.53	3808.82				
27-Sep-2008	36.88	3808.47				
10-Jun-2008	37.39	3807.96				
5-Feb-2008	36.77	3808.58				



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>River Valley Dairy</b>						
167-01	5-Nov-2015	402518.37	1518459.71	3818.94	17.30	3801.64
	6-Aug-2015				17.91	3801.03
	6-May-2015				18.04	3800.90
	5-Feb-2015				16.18	3802.76
	10-Nov-2014				17.86	3801.08
	13-Aug-2014				18.49	3800.45
	18-Jun-2014				19.77	3799.17
	12-Feb-2014				16.81	3802.13
	6-Nov-2013				18.82	3800.12
	6-Aug-2013				19.11	3799.83
	7-May-2013				18.43	3800.51
	7-Feb-2013				17.02	3801.92
	25-Oct-2012				17.23	3801.71
	31-Jul-2012				16.91	3802.03
	24-Apr-2012				16.01	3802.93
	24-Jan-2012				14.60	3804.34
	8-Dec-2011				15.06	3803.88
	19-Jul-2011				16.81	3802.13
	25-Apr-2011				14.51	3804.43
	17-Jan-2011				12.33	3806.61
	15-Sep-2010				12.19	3806.75
	25-Jun-2010				13.31	3805.63
	22-Mar-2010				13.46	3805.48
	8-Dec-2009				12.11	3806.83
	28-Aug-2009				11.99	3806.95
	26-May-2009				12.43	3806.51
10-Dec-2008	12.13	3806.81				
27-Sep-2008	12.09	3806.85				
10-Jun-2008	12.95	3805.99				
5-Feb-2008	12.62	3806.32				
14-Nov-2007	12.68	3806.26				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
167-01A	5-Nov-2015	402518.18	1518936.72	3818.88	17.51	3801.37
	6-Aug-2015				18.10	3800.78
	6-May-2015				18.84	3800.04
	5-Feb-2015				16.32	3802.56
	5-Nov-2014				17.35	3801.53
	13-Aug-2014				18.34	3800.54
	18-Jun-2014				19.65	3799.23
	12-Feb-2014				16.79	3802.09
	6-Nov-2013				18.19	3800.69
	6-Aug-2013				18.54	3800.34
	7-May-2013				18.22	3800.66
	7-Feb-2013				17.45	3801.43
	25-Oct-2012				17.38	3801.50
	31-Jul-2012				17.08	3801.80
	24-Apr-2012				16.29	3802.59
	24-Jan-2012				14.59	3804.29
	13-Dec-2011				15.13	3803.75
	19-Jul-2011				16.04	3802.84
	25-Apr-2011				14.13	3804.75
	17-Jan-2011				12.38	3806.50
	15-Sep-2010				12.21	3806.67
	22-Jun-2010				13.74	3805.14
	22-Mar-2010				13.22	3805.66
	8-Dec-2009				12.17	3806.71
28-Aug-2009	12.23	3806.65				
26-May-2009	12.62	3806.26				
10-Dec-2008	12.03	3806.85				
27-Sep-2008	12.18	3806.70				
10-Jun-2008	13.16	3805.72				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
167-02	5-Nov-2015	402498.3	1519354.81	3819.64	18.70	3800.94
	6-Aug-2015				18.98	3800.66
	12-May-2015				20.88	3798.76
	6-May-2015				21.50	3798.14
	5-Feb-2015				17.25	3802.39
	10-Nov-2014				Dry	
	13-Aug-2014				19.35	3800.29
	18-Jun-2014				Dry	
	12-Feb-2014				17.94	3801.70
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	25-Oct-2012				Dry	
	31-Jul-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				15.84	3803.80
	8-Dec-2011				15.92	3803.72
	19-Jul-2011				Dry	
	25-Apr-2011				13.48	3806.16
	17-Jan-2011				13.49	3806.15
	15-Sep-2010				13.68	3805.96
	22-Jun-2010				15.23	3804.41
	22-Mar-2010				14.69	3804.95
	8-Dec-2009				13.32	3806.32
	28-Aug-2009				13.65	3805.99
	26-May-2009				13.86	3805.78
	10-Dec-2008				13.43	3806.21
	27-Sep-2008				13.71	3805.93
	10-Jun-2008				14.70	3804.94
5-Feb-2008	13.54	3806.10				
14-Nov-2007	13.65	3805.99				
11-Sep-2007	13.98	3805.66				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
167-03	5-Nov-2015	402981.73	1519415.73	3825.66	23.96	3801.70
	6-Aug-2015				24.52	3801.14
	6-May-2015				24.58	3801.08
	5-Feb-2015				22.70	3802.96
	10-Nov-2014				24.45	3801.21
	13-Aug-2014				24.81	3800.85
	18-Jun-2014				25.84	3799.82
	12-Feb-2014				23.04	3802.62
	6-Nov-2013				24.79	3800.87
	6-Aug-2013				25.27	3800.39
	7-May-2013				22.99	3802.67
	7-Feb-2013				22.06	3803.60
	25-Oct-2012				23.49	3802.17
	31-Jul-2012				22.63	3803.03
	24-Apr-2012				21.97	3803.69
	24-Jan-2012				20.94	3804.72
	8-Dec-2011				21.73	3803.93
	19-Jul-2011				23.22	3802.44
	25-Apr-2011				18.78	3806.88
	17-Jan-2011				18.86	3806.80
	15-Sep-2010				18.81	3806.85
	22-Jun-2010				19.90	3805.76
	22-Mar-2010				19.71	3805.95
	8-Dec-2009				18.62	3807.04
	28-Aug-2009				18.90	3806.76
	27-May-2009				19.26	3806.40
	10-Dec-2008				18.41	3807.25
	27-Sep-2008				18.72	3806.94
10-Jun-2008	19.82	3805.84				
5-Feb-2008	18.64	3807.02				
14-Nov-2007	18.55	3807.11				
11-Sep-2007	19.02	3806.64				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
167-04	5-Nov-2015	402032.19	1519884.6	3827.60	26.23	3801.37
	6-Aug-2015				26.73	3800.87
	6-May-2015				27.07	3800.53
	5-Feb-2015				25.22	3802.38
	10-Nov-2014				26.18	3801.42
	13-Aug-2014				26.91	3800.69
	18-Jun-2014				27.94	3799.66
	12-Feb-2014				25.42	3802.18
	6-Nov-2013				26.38	3801.22
	6-Aug-2013				26.70	3800.90
	7-May-2013				25.59	3802.01
	7-Feb-2013				24.84	3802.76
	25-Oct-2012				25.60	3802.00
	31-Jul-2012				25.19	3802.41
	24-Apr-2012				25.05	3802.55
	24-Jan-2012				23.36	3804.24
	8-Dec-2011				24.01	3803.59
	19-Jul-2011				24.36	3803.24
	25-Apr-2011				21.23	3806.37
	17-Jan-2011				21.18	3806.42
	15-Sep-2010				Well Damaged	
	22-Jun-2010					
	22-Mar-2010					
	8-Dec-2009					
	28-Aug-2009				21.57	3806.03
	26-May-2009				21.60	3806.00
	10-Dec-2008				21.01	3806.59
	27-Sep-2008				21.01	3806.59
	10-Jun-2008				22.20	3805.40
	5-Feb-2008				21.51	3806.09
	14-Nov-2007				21.44	3806.16
	11-Sep-2007				21.68	3805.92

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
167-05	5-Nov-2015	397947.44	1520446.03	3815.44	16.96	3798.48
	6-Aug-2015				16.12	3799.32
	6-May-2015				17.98	3797.46
	5-Feb-2015				16.13	3799.31
	10-Nov-2014				16.84	3798.60
	13-Aug-2014				15.94	3799.50
	18-Jun-2014				17.19	3798.25
	12-Feb-2014				15.73	3799.71
	6-Nov-2013				15.75	3799.69
	6-Aug-2013				16.03	3799.41
	7-May-2013				15.42	3800.02
	7-Feb-2013				14.96	3800.48
	25-Oct-2012				15.74	3799.70
	31-Jul-2012				15.60	3799.84
	24-Apr-2012				14.99	3800.45
	30-Jan-2012				13.86	3801.58
	13-Dec-2011				14.10	3801.34
	19-Jul-2011				13.69	3801.75
	19-Apr-2011				12.97	3802.47
	17-Jan-2011				11.90	3803.54
	15-Sep-2010				11.52	3803.92
	25-Jun-2010				12.43	3803.01
	22-Mar-2010				12.22	3803.22
	8-Dec-2009				11.96	3803.48
	28-Aug-2009				11.63	3803.81
	26-May-2009				11.45	3803.99
	10-Dec-2008				11.54	3803.90
27-Sep-2008	11.20	3804.24				
10-Jun-2008	12.65	3802.79				
5-Feb-2008	12.36	3803.08				
14-Nov-2007	12.77	3802.67				
11-Sep-2007	12.91	3802.53				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
167-06	5-Nov-2015	404479.35	1519603.88	3834.84	31.73	3803.11
	6-Aug-2015				32.13	3802.71
	6-May-2015				32.36	3802.48
	5-Feb-2015				30.44	3804.40
	10-Nov-2014				31.33	3803.51
	13-Aug-2014				32.08	3802.76
	18-Jun-2014				32.63	3802.21
	12-Feb-2014				30.42	3804.42
	6-Nov-2013				30.95	3803.89
	6-Aug-2013				31.73	3803.11
	7-May-2013				30.83	3804.01
	7-Feb-2013				30.00	3804.84
	25-Oct-2012				30.12	3804.72
	31-Jul-2012				30.29	3804.55
	24-Apr-2012				29.84	3805.00
	24-Jan-2012				28.48	3806.36
	8-Dec-2011				29.10	3805.74
	19-Jul-2011				28.75	3806.09
	25-Apr-2011				26.71	3808.13
	17-Jan-2011				26.73	3808.11
	15-Sep-2010				26.70	3808.14
	22-Jun-2010				27.17	3807.67
	22-Mar-2010				27.02	3807.82
	8-Dec-2009				26.40	3808.44
	28-Aug-2009				26.96	3807.88
	26-May-2009				27.15	3807.69
	10-Dec-2008				26.18	3808.66
27-Sep-2008	26.54	3808.30				
10-Jun-2008	27.10	3807.74				
5-Feb-2008	26.46	3808.38				
14-Nov-2007	26.60	3808.24				
11-Sep-2007	26.74	3808.10				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
167-07	5-Nov-2015	402562.23	1518480.34	3819.08	17.40	3801.68
	6-Aug-2015				18.28	3800.80
	6-May-2015				18.80	3800.28
	5-Feb-2015				16.26	3802.82
	10-Nov-2014				17.11	3801.97
	13-Aug-2014				18.47	3800.61
	18-Jun-2014				19.76	3799.32
	12-Feb-2014				16.88	3802.20
	6-Nov-2013				17.82	3801.26
	6-Aug-2013				18.25	3800.83
	7-May-2013				16.14	3802.94
	7-Feb-2013				15.84	3803.24
	25-Oct-2012				16.30	3802.78
	31-Jul-2012				16.09	3802.99
	24-Apr-2012				15.84	3803.24
	24-Jan-2012				14.54	3804.54
	8-Dec-2011				15.45	3803.63
	25-Jul-2011				15.39	3803.69
	25-Apr-2011				14.95	3804.13
	17-Jan-2011				12.39	3806.69
	15-Sep-2010				11.98	3807.10
	22-Jun-2010				12.94	3806.14
	22-Mar-2010				13.03	3806.05
8-Dec-2009	12.18	3806.90				
28-Aug-2009	12.06	3807.02				
26-May-2009	12.56	3806.52				
10-Dec-2008	12.24	3806.84				
27-Sep-2008	12.20	3806.88				
10-Jun-2008	13.00	3806.08				
167-08	23-Nov-2015	399352.96	1519889.65	3817.96	16.95	3801.01
	6-Aug-2015				18.40	3799.56
	6-May-2015				19.56	3798.40
	5-Feb-2015				17.78	3800.18
	5-Nov-2014				18.31	3799.65
	13-Aug-2014				18.46	3799.50
	18-Jun-2014				19.71	3798.25
	12-Feb-2014				17.65	3800.31
	6-Nov-2013				17.68	3800.28
	6-Aug-2013				18.07	3799.89
	7-May-2013				16.99	3800.97
	7-Feb-2013				16.73	3801.23
	25-Oct-2012				17.72	3800.24
	31-Jul-2012				17.60	3800.36
	24-Apr-2012				16.71	3801.25
	24-Jan-2012				15.25	3802.71
	8-Dec-2011				15.52	3802.44
	19-Jul-2011				15.59	3802.37
	19-Apr-2011				13.95	3804.01
	17-Jan-2011				13.42	3804.54
	15-Sep-2010				12.92	3805.04
	25-Jun-2010				14.69	3803.27
	22-Mar-2010				13.73	3804.23
8-Dec-2009	13.46	3804.50				
28-Aug-2009	13.23	3804.73				
26-May-2009	12.87	3805.09				
10-Dec-2008	13.42	3804.54				
27-Sep-2008	NM	NM				
10-Jun-2008	14.02	3803.94				



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
167-09	5-Nov-2015	398473.95	1519259.34	3817.00	17.28	3799.72
	6-Aug-2015				16.30	3800.70
	6-May-2015				17.96	3799.04
	5-Feb-2015				16.81	3800.19
	5-Nov-2014				16.78	3800.22
	13-Aug-2014				16.92	3800.08
	18-Jun-2014				17.69	3799.31
	12-Feb-2014				16.38	3800.62
	6-Nov-2013				15.91	3801.09
	6-Aug-2013				16.22	3800.78
	7-May-2013				16.09	3800.91
	7-Feb-2013				15.36	3801.64
	25-Oct-2012				15.31	3801.69
	31-Jul-2012				15.04	3801.96
	24-Apr-2012				15.12	3801.88
	24-Jan-2012				14.60	3802.40
	8-Dec-2011				14.42	3802.58
	19-Jul-2011				13.17	3803.83
	19-Apr-2011				12.78	3804.22
	17-Jan-2011				12.70	3804.30
	15-Sep-2010				11.95	3805.05
	25-Jun-2010				13.01	3803.99
	22-Mar-2010				12.88	3804.12
	8-Dec-2009				12.82	3804.18
	28-Aug-2009				12.43	3804.57
26-May-2009	12.44	3804.56				
10-Dec-2008	12.78	3804.22				
27-Sep-2008	12.07	3804.93				
10-Jun-2008	12.94	3804.06				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Big Sky Dairy</b>						
833-01	5-Nov-2015	399617.23	1521136.33	3839.55	Dry	
	17-Aug-2015				Dry	
	6-May-2015				Dry	
	6-Feb-2015				Dry	
	5-Nov-2014				Dry	
	12-Aug-2014				Dry	
	18-Jun-2014				Dry	
	12-Feb-2014				Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	8-May-2013				Dry	
	7-Feb-2013				Dry	
	25-Oct-2012				Dry	
	1-Aug-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				Dry	
	8-Dec-2011				Dry	
	18-Jul-2011				Dry	
	19-Apr-2001				35.44	3804.11
	17-Jan-2011				35.20	3804.35
	14-Sep-2010				34.76	3804.79
	22-Jun-2010				36.08	3803.47
	22-Mar-2010				35.49	3804.06
	8-Dec-2009				35.25	3804.30
	28-Aug-2009				35.25	3804.30
	26-May-2009				34.69	3804.86
	10-Dec-2008				34.99	3804.56
	28-Sep-2008				34.58	3804.97
	10-Jun-2008				36.13	3803.42
	5-Feb-2008				35.51	3804.04
14-Nov-2007	35.70	3803.85				
12-Sep-2007	35.79	3803.76				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
833-02	5-Nov-2015	401200.32	1520639.92	3836.04	35.48	3800.56
	6-Aug-2015				35.90	3800.14
	6-May-2015				37.04	3799.00
	6-Feb-2015				35.20	3800.84
	5-Nov-2014				35.48	3800.56
	12-Aug-2014				36.02	3800.02
	18-Jun-2014				36.72	3799.32
	12-Feb-2014				34.61	3801.43
	6-Nov-2013				34.80	3801.24
	6-Aug-2013				35.44	3800.60
	8-May-2013				35.13	3800.91
	7-Feb-2013				33.42	3802.62
	25-Oct-2012				34.61	3801.43
	1-Aug-2012				34.90	3801.14
	24-Apr-2012				33.49	3802.55
	24-Jan-2012				34.01	3802.03
	8-Dec-2011				33.08	3802.96
	18-Jul-2011				32.92	3803.12
	19-Apr-2011				31.92	3804.12
	17-Jan-2011				30.43	3805.61
	14-Sep-2010				30.34	3805.70
	22-Jun-2010				31.37	3804.67
	22-Mar-2010				30.87	3805.17
	8-Dec-2009				30.40	3805.64
	28-Aug-2009				30.58	3805.46
	26-May-2009				30.24	3805.80
	10-Dec-2008				30.13	3805.91
28-Sep-2008	29.80	3806.24				
10-Jun-2008	31.21	3804.83				
5-Feb-2008	30.63	3805.41				
14-Nov-2007	30.60	3805.44				
12-Sep-2007	30.63	3805.41				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
833-03	5-Nov-2015	401392.09	1521955.23	3867.06	Dry	
	17-Aug-2015				Dry	
	6-May-2015				Dry	
	6-Feb-2015				Dry	
	5-Nov-2014				Dry	
	12-Aug-2014				Dry	
	18-Jun-2014				Dry	
	12-Feb-2014				Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	8-May-2013				Dry	
	7-Feb-2013				Dry	
	25-Oct-2012				Dry	
	1-Aug-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				Dry	
	8-Dec-2011				Dry	
	18-Jul-2011				Dry	
	19-Apr-2011				61.92	3805.14
	17-Jan-2011				61.02	3806.04
	14-Sep-2010				60.91	3806.15
	22-Jun-2010				61.90	3805.16
	22-Mar-2010				61.41	3805.65
	8-Dec-2009				61.16	3805.90
	28-Aug-2009				61.50	3805.56
	26-May-2009				61.26	3805.80
	10-Dec-2008				60.76	3806.30
	28-Sep-2008				61.59	3805.47
	10-Jun-2008				61.83	3805.23
	5-Feb-2008				61.11	3805.95
	14-Nov-2007				61.08	3805.98
	12-Sep-2007				61.11	3805.95

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
833-04	5-Nov-2015	402898.52	1520659.33	3845.79	43.92	3801.87
	6-Aug-2015				44.49	3801.30
	6-May-2015				44.98	3800.81
	6-Feb-2015				43.67	3802.12
	5-Nov-2014				43.98	3801.81
	12-Aug-2014				44.62	3801.17
	18-Jun-2014				45.07	3800.72
	12-Feb-2014				43.19	3802.60
	6-Nov-2013				43.59	3802.20
	6-Aug-2013				44.00	3801.79
	8-May-2013				43.63	3802.16
	7-Feb-2013				41.70	3804.09
	25-Oct-2012				41.83	3803.96
	1-Aug-2012				42.70	3803.09
	24-Apr-2012				42.32	3803.47
	24-Jan-2012				40.87	3804.92
	8-Dec-2011				41.55	3804.24
	18-Jul-2011				41.05	3804.74
	19-Apr-2011				39.24	3806.55
	17-Jan-2011				38.80	3806.99
	14-Sep-2010				38.84	3806.95
	22-Jun-2010				39.19	3806.60
	22-Mar-2010				39.13	3806.66
	8-Dec-2009				38.85	3806.94
	28-Aug-2009				39.24	3806.55
	26-May-2009				39.31	3806.48
	10-Dec-2008				38.41	3807.38
	28-Sep-2008				38.42	3807.37
10-Jun-2008	39.46	3806.33				
5-Feb-2008	38.61	3807.18				
14-Nov-2007	38.54	3807.25				
12-Sep-2007	38.96	3806.83				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
833-05	5-Nov-2015	399712.39	1522374.73	3865.51	66.28	3799.23
	6-Aug-2015				66.74	3798.77
	6-May-2015				67.03	3798.48
	6-Feb-2015				65.76	3799.75
	10-Nov-2014				66.10	3799.41
	12-Aug-2014				66.71	3798.80
	18-Jun-2014				66.83	3798.68
	12-Feb-2014				65.32	3800.19
	6-Nov-2013				65.29	3800.22
	6-Aug-2013				65.80	3799.71
	8-May-2013				65.19	3800.32
	7-Feb-2013				64.21	3801.30
	25-Oct-2012				64.60	3800.91
	1-Aug-2012				65.01	3800.50
	24-Apr-2012				64.40	3801.11
	24-Jan-2012				63.60	3801.91
	8-Dec-2011				63.63	3801.88
	18-Jul-2011				63.23	3802.28
	19-Apr-2011				62.33	3803.18
	24-Jan-2011				61.90	3803.61
	14-Sep-2010				61.05	3804.46
	22-Jun-2010				61.97	3803.54
	22-Mar-2010				61.52	3803.99
	8-Dec-2009				61.39	3804.12
	28-Aug-2009				61.52	3803.99
	26-May-2009				61.14	3804.37
10-Dec-2008	61.07	3804.44				
28-Sep-2008	60.99	3804.52				
10-Jun-2008	62.28	3803.23				
5-Feb-2008	61.52	3803.99				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
833-06	5-Nov-2015	402219.48	1522652.04	3878.20	76.11	3802.09
	6-Aug-2015				76.49	3801.71
	6-May-2015				76.57	3801.63
	6-Feb-2015				75.79	3802.41
	5-Nov-2014				75.96	3802.24
	12-Aug-2014				76.20	3802.00
	18-Jun-2014				76.18	3802.02
	12-Feb-2014				75.43	3802.77
	6-Nov-2013				75.12	3803.08
	6-Aug-2013				75.47	3802.73
	8-May-2013				74.67	3803.53
	7-Feb-2013				73.80	3804.40
	25-Oct-2012				73.93	3804.27
	1-Aug-2012				74.06	3804.14
	24-Apr-2012				73.97	3804.23
	24-Jan-2012				73.50	3804.70
	8-Dec-2011				73.41	3804.79
	18-Jul-2011				72.93	3805.27
	25-Apr-2001				72.16	3806.04
	17-Jan-2011				71.43	3806.77
	14-Sep-2010				72.05	3806.15
	22-Jun-2010				72.08	3806.12
	22-Mar-2010				72.00	3806.20
	8-Dec-2009				71.92	3806.28
	28-Aug-2009				72.22	3805.98
	26-May-2009				72.02	3806.18
10-Dec-2008	70.95	3807.25				
28-Sep-2008	70.87	3807.33				
10-Jun-2008	71.78	3806.42				
5-Feb-2008	71.47	3806.73				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
833-07	5-Nov-2015	399298.8	1522082.75	3860.70	61.95	3798.75
	6-Aug-2015				62.28	3798.42
	6-May-2015				62.87	3797.83
	6-Feb-2015				61.34	3799.36
	10-Nov-2014				61.75	3798.95
	12-Aug-2014				62.28	3798.42
	18-Jun-2014				62.58	3798.12
	12-Feb-2014				60.88	3799.82
	6-Nov-2013				61.12	3799.58
	6-Aug-2013				61.45	3799.25
	8-May-2013				60.76	3799.94
	7-Feb-2013				59.82	3800.88
	25-Oct-2012				60.22	3800.48
	1-Aug-2012				60.63	3800.07
	24-Apr-2012				60.25	3800.45
	24-Jan-2012				59.71	3800.99
	8-Dec-2011				59.26	3801.44
	18-Jul-2011				58.99	3801.71
	19-Apr-2011				57.95	3802.75
	17-Jan-2011				56.87	3803.83
	14-Sep-2010				56.61	3804.09
	22-Jun-2010				57.55	3803.15
	22-Mar-2010				57.05	3803.65
	8-Dec-2009				56.94	3803.76
	28-Aug-2009				57.02	3803.68
	26-May-2009				56.64	3804.06
	10-Dec-2008				56.58	3804.12
28-Sep-2008	58.53	3802.17				
10-Jun-2008	57.88	3802.82				
5-Feb-2008	57.11	3803.59				



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
833-08	5-Nov-2015	400535.64	1521938.23	3861.76	61.32	3800.44
	6-Aug-2015				61.98	3799.78
	6-May-2015				62.22	3799.54
	6-Feb-2015				61.04	3800.72
	10-Nov-2014				61.22	3800.54
	12-Aug-2014				61.97	3799.79
	18-Jun-2014				62.07	3799.69
	12-Feb-2014				60.68	3801.08
	6-Nov-2013				60.79	3800.97
	6-Aug-2013				61.07	3800.69
	8-May-2013				60.60	3801.16
	7-Feb-2013				59.43	3802.33
	25-Oct-2012				59.75	3802.01
	1-Aug-2012				60.24	3801.52
	24-Apr-2012				59.81	3801.95
	24-Jan-2012				58.86	3802.90
	8-Dec-2011				58.96	3802.80
	18-Jul-2011				58.36	3803.40
	25-Apr-2011				56.54	3805.22
	17-Jan-2011				56.55	3805.21
	14-Sep-2010				56.34	3805.42
	22-Jun-2010				57.32	3804.44
	22-Mar-2010				56.83	3804.93
	8-Dec-2009				56.63	3805.13
	28-Aug-2009				56.83	3804.93
	26-May-2009				56.41	3805.35
10-Dec-2008	56.34	3805.42				
28-Sep-2008	56.07	3805.69				
10-Jun-2008	57.46	3804.30				
5-Feb-2008	56.78	3804.98				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
833-09	5-Nov-2015	398280.67	1520918.52	3826.27	27.98	3798.29
	6-Aug-2015				27.74	3798.53
	6-May-2015				28.86	3797.41
	6-Feb-2015				27.20	3799.07
	5-Nov-2014				27.74	3798.53
	12-Aug-2014				27.71	3798.56
	18-Jun-2014				28.71	3797.56
	12-Feb-2014				26.82	3799.45
	6-Nov-2013				27.49	3798.78
	6-Aug-2013				27.76	3798.51
	8-May-2013				27.31	3798.96
	7-Feb-2013				26.26	3800.01
	25-Oct-2012				26.30	3799.97
	1-Aug-2012				27.21	3799.06
	24-Apr-2012				26.44	3799.83
	24-Jan-2012				25.42	3800.85
	8-Dec-2011				25.08	3801.19
	18-Jul-2011				25.41	3800.86
	25-Apr-2011				22.86	3803.41
	17-Jan-2011				22.87	3803.40
	15-Sep-2010				22.56	3803.71
	22-Jun-2010				23.99	3802.28
	22-Mar-2010				23.20	3803.07
	8-Dec-2009				22.87	3803.40
	28-Aug-2009				22.67	3803.60
	26-May-2009				22.40	3803.87
10-Dec-2008	22.65	3803.62				
28-Sep-2008	22.18	3804.09				
10-Jun-2008	23.71	3802.56				
5-Feb-2008	23.23	3803.04				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
833-10	5-Nov-2015	396715.89	1520283.6	3820.76	22.80	3797.96
	6-Aug-2015				20.95	3799.81
	6-May-2015				23.58	3797.18
	6-Feb-2015				22.24	3798.52
	10-Nov-2014				22.95	3797.81
	12-Aug-2014				21.05	3799.71
	18-Jun-2014				22.37	3798.39
	12-Feb-2014				21.61	3799.15
	6-Nov-2013				21.76	3799.00
	6-Aug-2013				21.95	3798.81
	8-May-2013				22.26	3798.50
	7-Feb-2013				21.12	3799.64
	25-Oct-2012				20.93	3799.83
	1-Aug-2012				21.01	3799.75
	24-Apr-2012				21.11	3799.65
	24-Jan-2012				20.14	3800.62
	8-Dec-2011				19.95	3800.81
	18-Jul-2011				19.23	3801.53
	19-Apr-2011				18.67	3802.09
	17-Jan-2011				17.80	3802.96
	15-Sep-2010				17.29	3803.47
	22-Jun-2010				18.80	3801.96
	22-Mar-2010				18.38	3802.38
	8-Dec-2009				17.72	3803.04
	28-Aug-2009				17.22	3803.54
	26-May-2009				17.40	3803.36
10-Dec-2008	17.71	3803.05				
28-Sep-2008	16.98	3803.78				
10-Jun-2008	18.17	3802.59				
5-Feb-2008	18.11	3802.65				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Sunset/Desert Land Dairy</b>						
257-01	6-Nov-2015	395856.31	1520572.16	3820.33	22.99	3797.34
	6-Aug-2015				21.13	3799.20
	6-May-2015				24.16	3796.17
	6-Feb-2015				22.36	3797.97
	10-Nov-2014				23.20	3797.13
	12-Aug-2014				22.50	3797.83
	18-Jun-2014				22.67	3797.66
	12-Feb-2014				21.67	3798.66
	6-Nov-2013				22.29	3798.04
	6-Aug-2013				22.52	3797.81
	7-May-2013				21.15	3799.18
	7-Feb-2013				20.38	3799.95
	26-Oct-2012				21.04	3799.29
	1-Aug-2012				20.82	3799.51
	24-Apr-2012				21.01	3799.32
	24-Jan-2012				20.09	3800.24
	8-Dec-2011				20.18	3800.15
	18-Jul-2011				19.75	3800.58
	19-Apr-2011				18.52	3801.81
	18-Jan-2011				17.83	3802.50
	15-Sep-2010				17.15	3803.18
	22-Jun-2010				18.15	3802.18
	22-Mar-2010				18.40	3801.93
	8-Dec-2009				17.66	3802.67
	28-Aug-2009				16.99	3803.34
	26-May-2009				17.41	3802.92
10-Dec-2008	17.87	3802.46				
27-Sep-2008	16.75	3803.58				
10-Jun-2008	17.88	3802.45				
5-Feb-2008	17.59	3802.74				
14-Nov-2007	18.53	3801.80				
12-Sep-2007	18.10	3802.23				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
257-02	6-Nov-2015	394728.34	1521030.29	3813.67	17.65	3796.02
	17-Aug-2015				16.41	3797.26
	6-May-2015				18.20	3795.47
	6-Feb-2015				16.75	3796.92
	10-Nov-2014				17.45	3796.22
	13-Aug-2014				16.50	3797.17
	18-Jun-2014				17.87	3795.80
	12-Feb-2014				15.78	3797.89
	6-Nov-2013				16.06	3797.61
	6-Aug-2013				15.95	3797.72
	7-May-2013				15.04	3798.63
	7-Feb-2013				14.79	3798.88
	26-Oct-2012				15.06	3798.61
	1-Aug-2012				14.91	3798.76
	24-Apr-2012				15.27	3798.40
	24-Jan-2012				13.90	3799.77
	8-Dec-2011				14.38	3799.29
	19-Jul-2011				13.50	3800.17
	19-Apr-2011				12.59	3801.08
	18-Jan-2011				11.84	3801.83
	15-Sep-2010				10.86	3802.81
	22-Jun-2010				11.08	3802.59
	22-Mar-2010				12.22	3801.45
	8-Dec-2009				11.52	3802.15
	28-Aug-2009				10.86	3802.81
	26-May-2009				11.38	3802.29
	10-Dec-2008				11.67	3802.00
	27-Sep-2008				9.75	3803.92
10-Jun-2008	11.82	3801.85				
5-Feb-2008	11.67	3802.00				
14-Nov-2007	12.22	3801.45				
12-Sep-2007	11.55	3802.12				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
257-03	6-Nov-2015	397935.69	1518746.14	3814.74	13.96	3800.78
	6-Aug-2015				11.35	3803.39
	6-May-2015				Dry	
	6-Feb-2015				Dry	
	10-Nov-2014				Dry	
	13-Aug-2014				12.34	3802.40
	18-Jun-2014				12.21	3802.53
	12-Feb-2014				13.49	3801.25
	6-Nov-2013				11.04	3803.70
	6-Aug-2013				11.29	3803.45
	7-May-2013				12.98	3801.76
	7-Feb-2013				12.31	3802.43
	26-Oct-2012				11.61	3803.13
	1-Aug-2012				10.06	3804.68
	24-Apr-2012				11.56	3803.18
	24-Jan-2012				10.89	3803.85
	1-Nov-2011				11.29	3803.45
	18-Jul-2011				8.77	3805.97
	19-Apr-2011				9.31	3805.43
	17-Jan-2011				10.04	3804.70
	21-Sep-2010				9.26	3805.48
	22-Jun-2010				9.11	3805.63
	22-Mar-2010				10.45	3804.29
	8-Dec-2009				9.78	3804.96
	28-Aug-2009				9.43	3805.31
	26-May-2009				9.55	3805.19
	10-Dec-2008				10.26	3804.48
	27-Sep-2008				9.73	3805.01
	10-Jun-2008				9.70	3805.04
	5-Feb-2008				11.04	3803.70
14-Nov-2007	9.03	3805.71				
12-Sep-2007	9.61	3805.13				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
257/260-01	6-Nov-2015	397678.36	1519948.22	3814.04	12.85	3801.19
	13-Aug-2015				Crops too high	
	6-May-2015				17.12	3796.92
	6-Feb-2015				14.71	3799.33
	5-Nov-2014				14.93	3799.11
	13-Aug-2014				13.28	3800.76
	18-Jun-2014				14.53	3799.51
	12-Feb-2014				14.06	3799.98
	6-Nov-2013				14.01	3800.03
	14-Aug-2013				14.20	3799.84
	7-May-2013				13.83	3800.21
	7-Feb-2013				13.11	3800.93
	26-Oct-2012				13.36	3800.68
	1-Aug-2012				13.05	3800.99
	24-Apr-2012				12.98	3801.06
	30-Jan-2012				12.26	3801.78
	1-Nov-2011				12.79	3801.25
	18-Jul-2011				10.65	3803.39
	26-Apr-2011				11.66	3802.38
	17-Jan-2011				10.44	3803.60
	15-Sep-2010				9.94	3804.10
	22-Jun-2010				10.90	3803.14
	22-Mar-2010				10.71	3803.33
	8-Dec-2009				10.42	3803.62
	28-Aug-2009				10.11	3803.93
	26-May-2009				10.00	3804.04
	10-Dec-2008				10.48	3803.56
27-Sep-2008	9.80	3804.24				
10-Jun-2008	11.00	3803.04				
5-Feb-2008	10.99	3803.05				
14-Nov-2007	11.21	3802.83				
12-Sep-2007	NM	NM				
<b>Additional Wells</b>						
Bruce1	18-Jul-2011	388741.02	1523777.06	3808.92	Destroyed	
	19-Apr-2011				11.17	3797.75
	17-Jan-2011				11.13	3797.79
	15-Sep-2010				10.38	3798.54
	23-Jun-2010				10.99	3797.93
	21-Mar-2010				11.50	3797.42
	8-Dec-2009				11.05	3797.87
	27-Aug-2009				10.41	3798.51
	27-May-2009				10.77	3798.15
	10-Dec-2008				11.28	3797.64
	27-Sep-2008				10.93	3797.99
	10-Jun-2008				11.28	3797.64
	5-Feb-2008				11.47	3797.45
	Bruce2				5-Feb-2008	NM
10-Jun-2008		8.33	--			

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>SOUTHERN AREA</b>						
<b>Del Oro Dairy</b>						
692-01	6-Nov-2015	373615.88	1531529.38	3844.13	62.12	3782.01
	6-Aug-2015				61.75	3782.38
	6-May-2015				63.02	3781.11
	6-Feb-2015				61.28	3782.85
	5-Nov-2014				61.43	3782.70
	12-Aug-2014				61.27	3782.86
	13-May-2014				60.79	3783.34
	14-Feb-2014				60.38	3783.75
	6-Nov-2013				60.72	3783.41
	6-Aug-2013				60.30	3783.83
	7-May-2013				60.58	3783.55
	7-Feb-2013				59.93	3784.20
	26-Oct-2012				60.10	3784.03
	1-Aug-2012				58.79	3785.34
	24-Apr-2012				58.43	3785.70
	25-Jan-2012				78.58	Pumping
	9-Dec-2011				58.19	3785.94
	18-Jul-2011				57.79	3786.34
	19-Apr-2011				57.39	3786.74
	18-Jan-2011				57.17	3786.96
	15-Sep-2010				57.57	3786.56
	30-Jun-2010				61.15	Pumping
	22-Mar-2010				58.01	3786.12
	9-Dec-2009				58.25	3785.88
	29-Aug-2009				58.19	3785.94
	26-May-2009				57.80	3786.33
	11-Dec-2008				Pumping	NM
	28-Sep-2008				Pumping	NM
	11-Jun-2008				57.75	3786.38
	6-Feb-2008				57.42	3786.71
14-Nov-2007	57.38	3786.75				
13-Sep-2007	57.46	3786.67				



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
692-02	6-Nov-2015	372984.72	1531192.1	3840.84	59.74	3781.10
	6-Aug-2015				59.66	3781.18
	6-May-2015				59.50	3781.34
	6-Feb-2015				59.02	3781.82
	5-Nov-2014				59.27	3781.57
	12-Aug-2014				59.01	3781.83
	13-May-2014				58.51	3782.33
	14-Feb-2014				58.12	3782.72
	6-Nov-2013				57.91	3782.93
	6-Aug-2013				57.60	3783.24
	7-May-2013				57.39	3783.45
	7-Feb-2013				56.86	3783.98
	25-Oct-2012				56.48	3784.36
	1-Aug-2012				56.03	3784.81
	24-Apr-2012				55.71	3785.13
	25-Jan-2012				54.70	3786.14
	13-Dec-2011				54.94	3785.90
	18-Jul-2011				55.10	3785.74
	19-Apr-2011				54.68	3786.16
	18-Jan-2011				54.32	3786.52
	15-Sep-2010				54.39	3786.45
	30-Jun-2010				54.50	3786.34
	22-Mar-2010				54.90	3785.94
	9-Dec-2009				55.11	3785.73
	28-Aug-2009				55.03	3785.81
	26-May-2009				55.38	3785.46
	11-Dec-2008				54.93	3785.91
28-Sep-2008	54.69	3786.15				
11-Jun-2008	54.93	3785.91				
6-Feb-2008	54.74	3786.10				
14-Nov-2007	54.42	3786.42				
13-Sep-2007	54.61	3786.23				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
692-04	6-Nov-2015	372982.53	1531555.21	3842.66	Dry	
	6-Aug-2015				60.53	3782.13
	6-May-2015				61.99	3780.67
	6-Feb-2015				60.20	3782.46
	5-Nov-2014				60.44	3782.22
	12-Aug-2014				60.13	3782.53
	13-May-2014				59.66	3783.00
	14-Feb-2014				59.18	3783.48
	6-Nov-2013				59.03	3783.63
	6-Aug-2013				58.79	3783.87
	7-May-2013				58.68	3783.98
	7-Feb-2013				58.05	3784.61
	25-Oct-2012				57.62	3785.04
	1-Aug-2012				57.34	3785.32
	24-Apr-2012				57.13	3785.53
	25-Jan-2012				56.34	3786.32
	9-Dec-2011				56.91	3785.75
	18-Jul-2011				56.92	3785.74
	19-Apr-2011				56.47	3786.19
	18-Jan-2011				56.15	3786.51
	15-Sep-2010				55.90	3786.76
	30-Jun-2010				56.81	3785.85
	22-Mar-2010				56.81	3785.85
	8-Dec-2009				56.86	3785.80
	28-Aug-2009				56.82	3785.84
	26-May-2009				57.09	3785.57
	11-Dec-2008				56.71	3785.95
28-Sep-2008	56.41	3786.25				
11-Jun-2008	56.54	3786.12				
6-Feb-2008	56.40	3786.26				
14-Nov-2007	55.95	3786.71				
13-Sep-2007	56.19	3786.47				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
692-05	6-Nov-2015	374807.26	1532403	3854.26	81.13	3773.13
	6-Aug-2015				80.85	3773.41
	6-May-2015				81.97	3772.29
	6-Feb-2015				80.08	3774.18
	5-Nov-2014				81.06	3773.20
	12-Aug-2014				81.02	3773.24
	13-May-2014				80.82	3773.44
	13-Feb-2014				79.21	3775.05
	6-Nov-2013				NM	NM
	14-Aug-2013				78.12	3776.14
	7-May-2013				79.43	3774.83
	7-Feb-2013				78.86	3775.40
	26-Oct-2012				79.11	3775.15
	1-Aug-2012				78.80	3775.46
	24-Apr-2012				77.96	3776.30
	24-Jan-2012				76.80	3777.46
	9-Dec-2011				77.39	3776.87
	18-Jul-2011				77.59	3776.67
	19-Apr-2011				76.46	3777.80
	18-Jan-2011				75.55	3778.71
	15-Sep-2010				76.14	3778.12
	30-Jun-2010				76.20	3778.06
	22-Mar-2010				75.01	3779.25
	9-Dec-2009				75.52	3778.74
	28-Aug-2009				76.15	3778.11
	26-May-2009				75.65	3778.61
	11-Dec-2008				74.95	3779.31
	28-Sep-2008				75.36	3778.90
11-Jun-2008	75.72	3778.54				
6-Feb-2008	74.84	3779.42				
14-Nov-2007	75.90	3778.36				
13-Sep-2007	75.84	3778.42				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
692-06	6-Nov-2015	375054.77	1532411.83	3856.48	82.92	3773.56
	6-Aug-2015				82.68	3773.80
	6-May-2015				83.11	3773.37
	6-Feb-2015				81.65	3774.83
	5-Nov-2014				82.91	3773.57
	12-Aug-2014				82.88	3773.60
	13-May-2014				81.84	3774.64
	14-Feb-2014				81.31	3775.17
	6-Nov-2013				82.18	3774.30
	6-Aug-2013				81.86	3774.62
	7-May-2013				81.22	3775.26
	7-Feb-2013				80.88	3775.60
	26-Oct-2012				81.03	3775.45
	1-Aug-2012				80.69	3775.79
	24-Apr-2012				79.84	3776.64
	30-Jan-2012				78.99	3777.49
	9-Dec-2011				79.32	3777.16
	18-Jul-2011				79.43	3777.05
	19-Apr-2011				78.32	3778.16
	18-Jan-2011				77.44	3779.04
	15-Sep-2010				78.02	3778.46
	30-Jun-2010				78.12	3778.36
	22-Mar-2010				76.91	3779.57
	9-Dec-2009				77.44	3779.04
	28-Aug-2009				78.04	3778.44
	26-May-2009				77.53	3778.95
	11-Dec-2008				76.79	3779.69
	28-Sep-2008				77.25	3779.23
11-Jun-2008	77.60	3778.88				
6-Feb-2008	76.76	3779.72				
14-Nov-2007	77.80	3778.68				
13-Sep-2007	77.75	3778.73				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
692-07	6-Nov-2015	374944.88	1532019.81	3848.20	74.81	3773.39
	6-Aug-2015				74.52	3773.68
	6-May-2015				75.04	3773.16
	6-Feb-2015				73.40	3774.80
	5-Nov-2014				74.65	3773.55
	12-Aug-2014				74.94	3773.26
	13-May-2014				73.69	3774.51
	14-Feb-2014				73.14	3775.06
	6-Nov-2013				74.26	3773.94
	6-Aug-2013				73.92	3774.28
	7-May-2013				73.21	3774.99
	7-Feb-2013				72.55	3775.65
	26-Oct-2012				72.78	3775.42
	1-Aug-2012				72.60	3775.60
	24-Apr-2012				71.84	3776.36
	24-Jan-2012				70.30	3777.90
	13-Dec-2011				70.54	3777.66
	18-Jul-2011				71.32	3776.88
	19-Apr-2011				70.22	3777.98
	18-Jan-2011				69.01	3779.19
	15-Sep-2010				69.72	3778.48
	30-Jun-2010				69.87	3778.33
	22-Mar-2010				68.59	3779.61
	9-Dec-2009				68.97	3779.23
	28-Aug-2009				69.71	3778.49
	26-May-2009				69.35	3778.85
	11-Dec-2008				68.38	3779.82
	28-Sep-2008				68.99	3779.21
11-Jun-2008	69.35	3778.85				
6-Feb-2008	68.44	3779.76				
14-Nov-2007	69.46	3778.74				
13-Sep-2007	69.46	3778.74				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
692-08	6-Nov-2015	375535.69	1531378.09	3843.09	68.60	3774.49
	6-Aug-2015				68.45	3774.64
	6-May-2015				69.22	3773.87
	6-Feb-2015				67.12	3775.97
	5-Nov-2014				68.47	3774.62
	12-Aug-2014				68.72	3774.37
	13-May-2014				68.35	3774.74
	14-Feb-2014				67.81	3775.28
	6-Nov-2013				68.06	3775.03
	6-Aug-2013				68.52	3774.57
	14-May-2013				67.09	3776.00
	7-Feb-2013				66.64	3776.45
	26-Oct-2012				67.17	3775.92
	1-Aug-2012				66.47	3776.62
	24-Apr-2012				65.84	3777.25
	30-Jan-2012				64.58	3778.51
	9-Dec-2011				64.65	3778.44
	18-Jul-2011				65.79	3777.30
	19-Apr-2011				64.32	3778.77
	18-Jan-2011				62.49	3780.60
	1-Oct-2010				63.83	3779.26
	30-Jun-2010				63.71	3779.38
	22-Mar-2010				62.45	3780.64
	9-Dec-2009				62.57	3780.52
	28-Aug-2009				63.42	3779.67
	26-May-2009				64.03	3779.06
	11-Dec-2008				61.83	3781.26
	28-Sep-2008				63.42	3779.67
11-Jun-2008	63.40	3779.69				
6-Feb-2008	62.02	3781.07				
14-Nov-2007	63.25	3779.84				
13-Sep-2007	64.02	3779.07				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
692-09	6-Nov-2015	373575.83	1532395.09	3856.32	84.47	3771.85
	13-Aug-2015				84.35	3771.97
	6-May-2015				85.04	3771.28
	6-Feb-2015				83.34	3772.98
	10-Nov-2014				83.56	3772.76
	14-Aug-2014				84.03	3772.29
	13-May-2014				83.59	3772.73
	17-Feb-2014				82.51	3773.81
	6-Nov-2013				83.73	3772.59
	6-Aug-2013				83.40	3772.92
	7-May-2013				82.64	3773.68
	7-Feb-2013				82.02	3774.30
	26-Oct-2012				82.18	3774.14
	1-Aug-2012				82.11	3774.21
	24-Apr-2012				81.17	3775.15
	25-Jan-2012				79.80	3776.52
	8-Dec-2011				80.44	3775.88
	18-Jul-2011				80.78	3775.54
	19-Apr-2011				79.65	3776.67
	17-Jan-2011				78.52	3777.80
	15-Sep-2010				79.33	3776.99
	30-Jun-2010				79.52	3776.80
	22-Mar-2010				78.13	3778.19
	9-Dec-2009				78.79	3777.53
	28-Aug-2009				79.48	3776.84
	26-May-2009				78.89	3777.43
	11-Dec-2008				78.11	3778.21
	28-Sep-2008				78.55	3777.77
11-Jun-2008	79.03	3777.29				
6-Feb-2008	78.16	3778.16				
14-Nov-2007	79.15	3777.17				
13-Sep-2007	79.93	3776.39				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
<b>Anthony Waste Water Treatment Plant</b>						
MW-1	11-Nov-2015	372097.86	1532364.36	3843.03	61.08	3781.95
	7-Aug-2015				60.85	3782.18
	7-May-2015				61.27	3781.76
	6-Feb-2015				60.96	3782.07
	6-Nov-2014				60.79	3782.24
	12-Aug-2014				60.73	3782.30
	13-May-2014				60.65	3782.38
	14-Feb-2014				60.49	3782.54
	7-Nov-2013				60.28	3782.75
	7-Aug-2013				60.13	3782.90
	8-May-2013				59.72	3783.31
	7-Feb-2013				59.23	3783.80
	26-Oct-2012				58.85	3784.18
	2-Aug-2012				58.79	3784.24
	25-Apr-2012				58.28	3784.75
	9-Dec-2011				58.01	3785.02
	18-Jul-2011				58.44	3784.59
	20-Apr-2011				58.35	3784.68
	18-Jan-2011				58.20	3784.83
	15-Sep-2010				58.28	3784.75
	24-Jun-2010				58.50	3784.53
22-Mar-2010	58.43	3784.60				
9-Dec-2009	58.15	3784.88				
28-Aug-2009	58.07	3784.96				
27-May-2009	58.41	3784.62				
MW-2	11-Nov-2015	NM	NM	3843.25	62.30	3780.95
	7-Aug-2015				62.05	3781.20
	7-May-2015				62.66	3780.59
	6-Feb-2015				62.48	3780.77
	6-Nov-2014				62.22	3781.03
	12-Aug-2014				62.09	3781.16
	13-May-2014				62.06	3781.19
	14-Feb-2014				62.04	3781.21
	7-Nov-2013				61.81	3781.44
	7-Aug-2013				62.07	3781.18
	8-May-2013				61.21	3782.04
	7-Feb-2013				60.85	3782.40
	26-Oct-2012				60.42	3782.83
	2-Aug-2012				60.30	3782.95
	25-Apr-2012				59.94	3783.31
	30-Jan-2012				59.30	3783.95
	9-Dec-2011				59.33	3783.92
	18-Jul-2011				59.41	3783.84
	20-Apr-2011				59.42	3783.83
	18-Jan-2011				59.31	3783.94
	15-Sep-2010				59.08	3784.17
24-Jun-2010	59.37	3783.88				
22-Mar-2010	59.44	3783.81				
9-Dec-2009	59.19	3784.06				
28-Aug-2009	58.98	3784.27				
27-May-2009	59.45	3783.80				



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
MW-3	11-Nov-2015	NM	NM	3841.24	Dry	
	7-Aug-2015				Dry	
	7-May-2015				Dry	
	6-Feb-2015				Dry	
	6-Nov-2014				Dry	
	12-Aug-2014				Dry	
	13-May-2014				Dry	
	14-Feb-2014				Dry	
	7-Nov-2013				Dry	
	7-Aug-2013				59.29	3781.95
	8-May-2013				58.80	3782.44
	7-Feb-2013				58.36	3782.88
	26-Oct-2012				57.98	3783.26
	2-Aug-2012				57.81	3783.43
	25-Apr-2012				57.32	3783.92
	30-Jan-2012				56.80	3784.44
	8-Dec-2011				56.87	3784.37
	18-Jul-2011				56.98	3784.26
	19-Apr-2011				56.93	3784.31
	18-Jan-2011				56.73	3784.51
	15-Sep-2010				Could not access	
	24-Jun-2010				56.91	3784.33
	22-Mar-2010				56.93	3784.31
	9-Dec-2009				56.69	3784.55
	28-Aug-2009				56.54	3784.70
	27-May-2009				56.96	3784.28
<b>ABATEMENT PLAN MONITOR WELLS</b>						
DAD-01	6-Nov-2015	422970.59	1512825.76	3886.16	73.00	3813.16
	6-Aug-2015				73.54	3812.62
	7-May-2015				72.98	3813.18
	6-Feb-2015				71.45	3814.71
	6-Nov-2014				72.07	3814.09
	12-Aug-2014				71.93	3814.23
	13-May-2014				71.48	3814.68
	12-Feb-2014				70.14	3816.02
	6-Nov-2013				70.64	3815.52
	7-Aug-2013				68.63	3817.53
	7-May-2013				68.48	3817.68
	8-Feb-2013				68.59	3817.57
	29-Oct-2012				68.12	3818.04
	30-Jul-2012				68.97	3817.19
	23-Apr-2012				68.19	3817.97
	25-Jan-2012				67.15	3819.01
	8-Dec-2011				67.41	3818.75
	19-Jul-2011				67.41	3818.75
	25-Apr-2011				65.86	3820.30
	18-Jan-2011				65.37	3820.79
	16-Sep-2010				65.86	3820.30
	24-Jun-2010				66.58	3819.58
	21-Mar-2010				65.46	3820.70
	9-Dec-2009				65.32	3820.84
	29-Aug-2009				65.68	3820.48
	26-May-2009				65.43	3820.73

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
DAD-02	6-Nov-2015	413002.98	1517319.93	3875.82	67.21	3808.61
	6-Aug-2015				67.25	3808.57
	7-May-2015				67.10	3808.72
	6-Feb-2015				66.30	3809.52
	6-Nov-2014				66.60	3809.22
	12-Aug-2014				66.55	3809.27
	13-May-2014				66.01	3809.81
	12-Feb-2014				65.42	3810.40
	7-Nov-2013				65.55	3810.27
	7-Aug-2013				65.01	3810.81
	8-May-2013				64.56	3811.26
	8-Feb-2013				64.04	3811.78
	29-Oct-2012				64.11	3811.71
	31-Jul-2012				64.03	3811.79
	24-Apr-2012				63.45	3812.37
	25-Jan-2012				62.91	3812.91
	8-Dec-2011				63.07	3812.75
	19-Jul-2011				62.63	3813.19
	18-Apr-2011				62.11	3813.71
	17-Jan-2011				61.37	3814.45
16-Sep-2010	61.79	3814.03				
25-Jun-2010	62.95	3812.87				
21-Mar-2010	61.43	3814.39				
9-Dec-2009	61.46	3814.36				
29-Aug-2009	61.65	3814.17				
26-May-2009	61.59	3814.23				
DAD-03	6-Nov-2015	407721.31	1516497.85	3820.58	13.20	3807.38
	6-Aug-2015				13.41	3807.17
	7-May-2015				13.52	3807.06
	6-Feb-2015				12.87	3807.71
	6-Nov-2014				12.94	3807.64
	12-Aug-2014				13.20	3807.38
	13-May-2014				13.39	3807.19
	17-Feb-2014				12.66	3807.92
	11-Dec-2013				12.67	3807.91
	14-Aug-2013				12.36	3808.22
	8-May-2013				11.87	3808.71
	8-Feb-2013				11.07	3809.51
	29-Oct-2012				10.93	3809.65
	31-Jul-2012				10.90	3809.68
	24-Apr-2012				10.97	3809.61
	25-Jan-2012				10.60	3809.98
	8-Dec-2011				10.70	3809.88
	19-Jul-2011				10.29	3810.29
	18-Apr-2011				10.12	3810.46
	24-Jan-2011				9.36	3811.22
16-Sep-2010	9.40	3811.18				
24-Jun-2010	9.97	3810.61				
21-Mar-2010	9.90	3810.68				
9-Dec-2009	9.79	3810.79				
29-Aug-2009	9.72	3810.86				
26-May-2009	9.89	3810.69				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
DAD-04	6-Nov-2015	404576.66	1517413.28	3821.47	15.98	3805.49
	6-Aug-2015				16.77	3804.70
	7-May-2015				17.57	3803.90
	6-Feb-2015				15.55	3805.92
	6-Nov-2014				15.29	3806.18
	13-Aug-2014				15.81	3805.66
	13-May-2014				17.36	3804.11
	13-Feb-2014				15.45	3806.02
	7-Nov-2013				16.91	3804.56
	7-Aug-2013				17.11	3804.36
	8-May-2013				15.02	3806.45
	8-Feb-2013				14.48	3806.99
	29-Oct-2012				15.10	3806.37
	31-Jul-2012				14.37	3807.10
	24-Apr-2012				14.27	3807.20
	25-Jan-2012				13.40	3808.07
	8-Dec-2011				13.84	3807.63
	19-Jul-2011				13.63	3807.84
	18-Apr-2011				13.21	3808.26
	17-Jan-2011				12.71	3808.76
16-Sep-2010	12.14	3809.33				
23-Jun-2010	12.59	3808.88				
21-Mar-2010	12.88	3808.59				
9-Dec-2009	12.10	3809.37				
29-Aug-2009	12.13	3809.34				
26-May-2009	12.31	3809.16				
DAD-05	6-Nov-2015	396712.87	1519102.06	3816.01	16.57	3799.44
	13-Aug-2015				14.38	3801.63
	7-May-2015				18.16	3797.85
	6-Feb-2015				16.60	3799.41
	10-Nov-2014				17.25	3798.76
	13-Aug-2014				14.33	3801.68
	13-May-2014				17.24	3798.77
	13-Feb-2014				15.82	3800.19
	7-Nov-2013				15.39	3800.62
	7-Aug-2013				15.32	3800.69
	8-May-2013				15.78	3800.23
	8-Feb-2013				15.08	3800.93
	29-Oct-2012				14.85	3801.16
	2-Aug-2012				14.17	3801.84
	24-Apr-2012				14.14	3801.87
	25-Jan-2012				14.11	3801.90
	8-Dec-2011				14.05	3801.96
	18-Jul-2011				12.31	3803.70
	18-Apr-2011				12.58	3803.43
	17-Jan-2011				12.50	3803.51
16-Sep-2010	11.87	3804.14				
23-Jun-2010	12.95	3803.06				
21-Mar-2010	12.92	3803.09				
9-Dec-2009	12.13	3803.88				
29-Aug-2009	11.85	3804.16				
26-May-2009	12.07	3803.94				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
DAD-06	6-Nov-2015	404273.19	1522081.00	3887.71	Dry	
	6-Aug-2015				Dry	
	7-May-2015				Dry	
	6-Feb-2015				Dry	
	6-Nov-2014				Dry	
	12-Aug-2014				Dry	
	13-May-2014				Dry	
	13-Feb-2014				Dry	
	7-Nov-2013				Dry	
	7-Aug-2013				Dry	
	8-May-2013				82.79	3804.92
	8-Feb-2013				82.38	3805.33
	29-Oct-2012				82.47	3805.24
	1-Aug-2012				82.20	3805.51
	24-Apr-2012				82.13	3805.58
	25-Jan-2012				81.32	3806.39
	8-Dec-2011				81.55	3806.16
	18-Jul-2011				80.94	3806.77
	20-Apr-2011				80.16	3807.55
	17-Jan-2011				79.43	3808.28
	16-Sep-2010				79.68	3808.03
	25-Jun-2010				80.33	3807.38
	21-Mar-2010				79.85	3807.86
	9-Dec-2009				79.95	3807.76
29-Aug-2009	80.46	3807.25				
26-May-2009	80.32	3807.39				
DAD-07	6-Nov-2015	399270.18	1524320.88	3891.38	92.59	3798.79
	6-Aug-2015				92.43	3798.95
	7-May-2015				92.46	3798.92
	6-Feb-2015				92.28	3799.10
	6-Nov-2014				92.34	3799.04
	12-Aug-2014				92.12	3799.26
	13-May-2014				91.88	3799.50
	13-Feb-2014				91.37	3800.01
	7-Nov-2013				91.60	3799.78
	7-Aug-2013				91.19	3800.19
	8-May-2013				90.89	3800.49
	8-Feb-2013				90.13	3801.25
	29-Oct-2012				90.34	3801.04
	2-Aug-2012				90.38	3801.00
	24-Apr-2012				90.25	3801.13
	25-Jan-2012				89.75	3801.63
	8-Dec-2011				89.35	3802.03
	18-Jul-2011				88.98	3802.40
	20-Apr-2011				88.34	3803.04
	17-Jan-2011				87.94	3803.44
	16-Sep-2010				88.29	3803.09
	25-Jun-2010				88.49	3802.89
	21-Mar-2010				88.00	3803.38
	9-Dec-2009				88.19	3803.19
29-Aug-2009	88.45	3802.93				
26-May-2009	88.14	3803.24				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
DAD-08	6-Nov-2015	395287.38	1522575.07	3849.15	53.04	3796.11
	6-Aug-2015				52.90	3796.25
	7-May-2015				53.22	3795.93
	6-Feb-2015				51.97	3797.18
	6-Nov-2014				52.61	3796.54
	13-Aug-2014				53.09	3796.06
	13-May-2014				53.98	3795.17
	13-Feb-2014				51.31	3797.84
	7-Nov-2013				51.50	3797.65
	7-Aug-2013				53.18	3795.97
	8-May-2013				52.43	3796.72
	8-Feb-2013				50.37	3798.78
	29-Oct-2012				49.86	3799.29
	1-Aug-2012				50.34	3798.81
	24-Apr-2012				50.34	3798.81
	25-Jan-2012				49.62	3799.53
	13-Dec-2011				50.12	3799.03
	18-Jul-2011				49.97	3799.18
	20-Apr-2011				48.87	3800.28
	18-Jan-2011				47.80	3801.35
17-Sep-2010	47.05	3802.10				
25-Jun-2010	48.06	3801.09				
21-Mar-2010	47.76	3801.39				
9-Dec-2009	47.42	3801.73				
29-Aug-2009	47.18	3801.97				
26-May-2009	47.38	3801.77				
DAD-09	6-Nov-2015	373259.30	1530905.70	3838.03	57.46	3780.57
	6-Aug-2015				57.36	3780.67
	7-May-2015				57.19	3780.84
	6-Feb-2015				56.90	3781.13
	6-Nov-2014				56.69	3781.34
	12-Aug-2014				56.57	3781.46
	13-May-2014				56.14	3781.89
	13-Feb-2014				55.65	3782.38
	7-Nov-2013				55.17	3782.86
	7-Aug-2013				55.35	3782.68
	7-May-2013				54.94	3783.09
	8-Feb-2013				54.67	3783.36
	29-Oct-2012				54.13	3783.90
	2-Aug-2012				53.86	3784.17
	24-Apr-2012				53.40	3784.63
	25-Jan-2012				52.67	3785.36
	13-Dec-2011				52.62	3785.41
	18-Jul-2011				52.28	3785.75
	18-Apr-2011				51.89	3786.14
	17-Jan-2011				51.09	3786.94
17-Sep-2010	51.55	3786.48				
29-Jun-2010	52.20	3785.83				
21-Mar-2010	51.84	3786.19				
9-Dec-2009	52.12	3785.91				
29-Aug-2009	52.23	3785.80				
26-May-2009	52.49	3785.54				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
DAD-10	6-Nov-2015	372980.55	1532375.33	3854.93	83.80	3771.13
	6-Aug-2015				83.56	3771.37
	7-May-2015				83.93	3771.00
	6-Feb-2015				82.18	3772.75
	6-Nov-2014				83.31	3771.62
	12-Aug-2014				83.25	3771.68
	13-May-2014				83.61	3771.32
	17-Feb-2014				81.59	3773.34
	7-Nov-2013				82.75	3772.18
	7-Aug-2013				82.78	3772.15
	7-May-2013				81.77	3773.16
	8-Feb-2013				80.87	3774.06
	29-Oct-2012				81.02	3773.91
	2-Aug-2012				81.47	3773.46
	24-Apr-2012				80.36	3774.57
	25-Jan-2012				78.76	3776.17
	13-Dec-2011				79.07	3775.86
	18-Jul-2011				80.29	3774.64
	20-Apr-2011				79.13	3775.80
	17-Jan-2011				77.82	3777.11
	17-Sep-2010				78.66	3776.27
	29-Jun-2010				78.59	3776.34
	21-Mar-2010				77.19	3777.74
9-Dec-2009	77.92	3777.01				
29-Aug-2009	78.72	3776.21				
26-May-2009	77.90	3777.03				
DAD-11	6-Nov-2015	416211.35	1513814.71	3835.90	22.92	3812.98
	6-Aug-2015				22.38	3813.52
	7-May-2015				22.64	3813.26
	6-Feb-2015				22.50	3813.40
	10-Nov-2014				21.80	3814.10
	13-Aug-2014				20.77	3815.13
	12-May-2014				21.34	3814.56
	12-Feb-2014				21.64	3814.26
	7-Nov-2013				20.76	3815.14
	7-Aug-2013				20.17	3815.73
	8-May-2013				20.70	3815.20
	8-Feb-2013				19.25	3816.65
	29-Oct-2012				19.07	3816.83
	30-Jul-2012				18.57	3817.33
	24-Apr-2012				19.12	3816.78
	25-Jan-2012				18.40	3817.50
	13-Dec-2011				18.75	3817.15
	19-Jul-2011				17.54	3818.36
	19-Apr-2011				17.31	3818.59
	17-Jan-2011				16.99	3818.91
	15-Sep-2010				16.24	3819.66
	23-Jun-2010				16.53	3819.37
	22-Mar-2010				17.29	3818.61
	8-Dec-2009				16.82	3819.08
	28-Aug-2009				16.63	3819.27
	26-May-2009				16.92	3818.98
	10-Dec-2008				17.05	3818.85
27-Sep-2008	16.65	3819.25				
10-Jun-2008	17.53	3818.37				
6-Feb-2008	17.33	3818.57				
13-Nov-2007	17.19	3818.71				
13-Sep-2007	16.61	3819.29				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
DAD-12	6-Nov-2015	419731.54	1512274.77	3866.72	52.77	3813.95
	6-Aug-2015				52.87	3813.85
	7-May-2015				52.75	3813.97
	6-Feb-2015				52.18	3814.54
	10-Nov-2014				51.93	3814.79
	13-Aug-2014				51.10	3815.62
	12-May-2014				51.43	3815.29
	12-Feb-2014				50.92	3815.80
	7-Nov-2013				50.49	3816.23
	7-Aug-2013				49.24	3817.48
	7-May-2013				49.66	3817.06
	8-Feb-2013				49.36	3817.36
	29-Oct-2012				48.96	3817.76
	31-Jul-2012				48.59	3818.13
	23-Apr-2011				48.44	3818.28
	25-Jan-2012				48.01	3818.71
6-Dec-2011	48.15	3818.57				
DAD-13	6-Nov-2015	417879.08	1515673.13	3898.44	86.40	3812.04
	6-Aug-2015				88.65	3809.79
	7-May-2015				88.05	3810.39
	6-Feb-2015				85.50	3812.94
	10-Nov-2014				85.74	3812.70
	13-Aug-2014				86.67	3811.77
	13-May-2014				87.24	3811.20
	12-Feb-2014				84.45	3813.99
	7-Nov-2013				85.43	3813.01
	14-Aug-2013				86.46	3811.98
	8-May-2013				84.96	3813.48
	8-Feb-2013				84.81	3813.63
	29-Oct-2012				85.39	3813.05
	30-Jul-2012				85.51	3812.93
	23-Apr-2012				83.56	3814.88
	25-Jan-2012				82.72	3815.72
8-Dec-2011	82.88	3815.56				
DAD-14	6-Nov-2015	414923.33	1514695.26	3841.90	30.54	3811.36
	6-Aug-2015				30.47	3811.43
	7-May-2015				30.29	3811.61
	6-Feb-2015				29.83	3812.07
	10-Nov-2014				29.50	3812.40
	13-Aug-2014				28.63	3813.27
	13-May-2014				29.68	3812.22
	12-Feb-2014				29.02	3812.88
	7-Nov-2013				28.44	3813.46
	7-Aug-2013				28.25	3813.65
	8-May-2013				28.15	3813.75
	8-Feb-2013				27.31	3814.59
	25-Oct-2012				26.62	3815.28
	30-Jul-2012				25.85	3816.05
	24-Apr-2012				26.07	3815.83
	25-Jan-2012				26.10	3815.80
8-Dec-2011	26.30	3815.60				



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
DAD-15	6-Nov-2015	402001.22	1523552.04	3897.61	96.08	3801.53
	6-Aug-2015				96.05	3801.56
	7-May-2015				96.05	3801.56
	6-Feb-2015				95.65	3801.96
	6-Nov-2014				95.11	3802.50
	14-Aug-2014				95.50	3802.11
	13-May-2014				95.47	3802.14
	12-Feb-2014				94.81	3802.80
	7-Nov-2013				95.08	3802.53
	7-Aug-2013				95.31	3802.30
	8-May-2013				94.35	3803.26
	8-Feb-2013				94.01	3803.60
	29-Oct-2012				93.78	3803.83
	DAD-16				6-Nov-2015	400628.77
6-Aug-2015		19.46	3799.82			
7-May-2015		20.45	3798.83			
6-Feb-2015		18.45	3800.83			
10-Nov-2014		18.94	3800.34			
13-Aug-2014		19.45	3799.83			
13-May-2014		20.31	3798.97			
13-Feb-2014		18.45	3800.83			
7-Nov-2013		18.94	3800.34			
7-Aug-2013		19.06	3800.22			
8-May-2013		18.49	3800.79			
8-Feb-2013		17.20	3802.08			
29-Oct-2012		17.23	3802.05			
31-Jul-2012		18.58	3800.70			
24-Apr-2012		17.64	3801.64			
25-Jan-2012		16.50	3802.78			
8-Dec-2011	16.58	3802.70				
DAD-17	6-Nov-2015	393991.97	1520267.94	3817.75	22.95	3794.80
	13-Aug-2015				21.95	3795.80
	7-May-2015				22.59	3795.16
	6-Feb-2015				21.00	3796.75
	10-Nov-2014				21.76	3795.99
	13-Aug-2014				20.32	3797.43
	13-May-2014				23.32	3794.43
	12-Feb-2014				20.05	3797.70
	7-Nov-2013				20.21	3797.54
	7-Aug-2013				19.75	3798.00
	13-May-2013				19.37	3798.38
	8-Feb-2013				18.55	3799.20
	29-Oct-2012				19.18	3798.57
	2-Aug-2012				19.07	3798.68
	24-Apr-2012				21.01	3796.74
	25-Jan-2012				17.74	3800.01
9-Dec-2011	19.21	3798.54				



**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
DAD-18	6-Nov-2015	395714.14	1520588.96	3821.59	24.35	3797.24
	13-Aug-2015				23.37	3798.22
	7-May-2015				25.84	3795.75
	6-Feb-2015				23.73	3797.86
	10-Nov-2014				24.90	3796.69
	12-Aug-2014				22.93	3798.66
	13-May-2014				25.33	3796.26
	17-Feb-2014				23.03	3798.56
	7-Nov-2013				23.25	3798.34
	7-Aug-2013				24.23	3797.36
	13-May-2013				22.97	3798.62
	8-Feb-2013				22.04	3799.55
	29-Oct-2012				22.40	3799.19
	1-Aug-2012				22.43	3799.16
	24-Apr-2012				22.20	3799.39
	25-Jan-2012				21.33	3800.26
	6-Dec-2011				21.43	3800.16
DAD-19	6-Nov-2015	400164.47	1522027.92	3864.50	64.78	3799.72
	6-Aug-2015				65.35	3799.15
	7-May-2015				65.56	3798.94
	6-Feb-2015				64.38	3800.12
	10-Nov-2014				64.50	3800.00
	12-Aug-2014				65.29	3799.21
	13-May-2014				65.26	3799.24
	12-Feb-2014				63.99	3800.51
	7-Nov-2013				64.11	3800.39
	7-Aug-2013				64.46	3800.04
	14-May-2013				63.75	3800.75
	8-Feb-2013				62.95	3801.55
	29-Oct-2012				62.30	3802.20
	1-Aug-2012				63.70	3800.80
	24-Apr-2012				63.31	3801.19
	25-Jan-2012				62.25	3802.25
	6-Dec-2011				62.29	3802.21
DAD-20	6-Nov-2015	371751.45	1531188.19	3833.27	54.41	3778.86
	6-Aug-2015				54.32	3778.95
	7-May-2015				54.40	3778.87
	6-Feb-2015				54.26	3779.01
	6-Nov-2014				54.44	3778.83
	12-Aug-2014				54.26	3779.01
	13-May-2014				54.20	3779.07
	13-Feb-2014				53.54	3779.73
	7-Nov-2013				53.70	3779.57
	7-Aug-2013				53.43	3779.84
	8-May-2013				52.88	3780.39
	8-Feb-2013				52.29	3780.98
	7-Nov-2012				52.18	3781.09
	29-Oct-2012				Obstruction in Well	
	2-Aug-2012				Obstruction in Well	
	25-Apr-2012				Obstruction in Well	
	25-Jan-2012				50.65	3782.62
6-Dec-2011	50.66	3782.61				

**TABLE 1. SUMMARY OF MONITORING WELL FLUID GAUGING DATA  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing <sup>a</sup>	Easting <sup>a</sup>	Casing Elevation <sup>b</sup>	Depth to Water <sup>c</sup>	Ground Water Elevation <sup>b</sup>
DAD-21	6-Nov-2015	374013.39	1530983.98	3839.62	58.13	3781.49
	6-Aug-2015				57.83	3781.79
	7-May-2015				57.56	3782.06
	6-Feb-2015				57.16	3782.46
	6-Nov-2014				56.97	3782.65
	12-Aug-2014				56.82	3782.80
	13-May-2014				56.42	3783.20
	17-Feb-2014				55.97	3783.65
	7-Nov-2013				55.89	3783.73
	7-Aug-2013				55.81	3783.81
	7-May-2013				55.43	3784.19
	8-Feb-2013				55.10	3784.52
	29-Oct-2012				54.60	3785.02
	2-Aug-2012				54.31	3785.31
	24-Apr-2012				53.61	3786.01
	30-Jan-2012				53.44	3786.18
	6-Dec-2011				53.24	3786.38
DAD-22	6-Nov-2015	373029.62	1530352.69	3827.14	47.64	3779.50
	6-Aug-2015				47.65	3779.49
	7-May-2015				47.54	3779.60
	6-Feb-2015				47.30	3779.84
	6-Nov-2014				47.14	3780.00
	12-Aug-2014				46.98	3780.16
	13-May-2014				46.56	3780.58
	17-Feb-2014				46.18	3780.96
	7-Nov-2013				45.73	3781.41
	7-Aug-2013				45.77	3781.37
	14-May-2013				44.09	3783.05
	8-Feb-2013				44.08	3783.06
	29-Oct-2012				44.51	3782.63
	2-Aug-2012				44.23	3782.91
	25-Apr-2012				43.86	3783.28
	25-Jan-2012				43.22	3783.92
	13-Dec-2011				43.27	3783.87

Notes:  
<sup>a</sup> Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)  
<sup>b</sup> Vertical Control to NAVD88 Datum in feet above mean sea level  
<sup>c</sup> Measured in feet below the top of casing at survey point on north side of well  
<sup>d</sup> Measured in feet  
Wells were gauged on a different date by Magee and Associates Inc.  
Wells were gauged on a different date by EnviroCompliance Inc.  
Measured data were suspect and corrected to reflect appropriate trends in accordance with surrounding wells

**TABLE 2. SUMMARY OF MONITORING WELL GROUNDWATER FIELD PARAMETERS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	pH	SpC (uS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)
<b>NORTHERN AREA</b>						
<b>Northern Land Application Area</b>						
70-03	12-Nov-2015	7.16	9,359	20.21	1.32	206.1
	19-Aug-2015	6.96	11,433	25.28	NM	209.7
70/86/340-01	10-Nov-2015	7.21	6,827	18.52	1.91	174.5
	20-Aug-2015	6.90	6,824	21.36	NM	277.1
86/340-01	10-Nov-2015	7.55	2,951	17.52	1.74	153.4
	20-Aug-2015	7.29	2,970	20.60	NM	267.0
<b>Organ Dairy (Formerly known as Del Norte Dairy and Daybreak Dairy)</b>						
126-04	9-Nov-2015	7.11	3,558	21.29	2.40	38.5
	17-Aug-2015	6.84	3,626	22.52	NM	277.8
126-05	9-Nov-2015	7.39	4,174	19.96	2.15	186.6
	17-Aug-2015	Insufficient Water-Parameters Not Collected				
126-07	9-Nov-2015	6.84	3,338	21.02	1.84	185.7
	17-Aug-2015	6.80	3,658	24.41	NM	234.8
126-09	9-Nov-2015	6.79	3,888	22.27	4.75	193.2
	17-Aug-2015	Insufficient Water-Parameters Not Collected				
126-12	9-Nov-2015	7.24	3,276	19.76	2.37	-145.5
	17-Aug-2015	7.21	1,843	20.97	NM	-177.9
126-13	9-Nov-2015	6.96	4,208	21.49	4.32	114.8
	17-Aug-2015	6.81	4,521	22.40	NM	167.3
<b>Mountain View Dairy</b>						
70-01	12-Nov-2015	7.15	3,774	20.91	1.70	171.1
	19-Aug-2015	7.08	3,830	22.50	NM	187.0
70-02	12-Nov-2015	7.64	4,737	21.94	NM	174.1
	19-Aug-2015	7.43	4,816	25.90	NM	179.5
70-04	12-Nov-2015	7.08	3,939	21.76	1.17	195.5
	19-Aug-2015	7.01	4,047	22.49	NM	183.3
<b>Buena Vista Dairy I</b>						
86-01	Jan-2011	Not Sampled Since January 2011				
86-02	Jan-2011	Not Sampled Since January 2011				
<b>Bright Star Dairy</b>						
340-01	9-Nov-2015	7.25	4,052	21.27	1.34	115.1
	20-Aug-2015	7.26	3,382	22.21	NM	259.1
340-02	9-Nov-2015	7.10	4,755	22.34	4.09	148.9
	20-Aug-2015	Insufficient Water-Parameters Not Collected				

**TABLE 2. SUMMARY OF MONITORING WELL GROUNDWATER FIELD PARAMETERS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	pH	SpC (uS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)
<b>Former D&amp;J Dairy (Dominguez 2)</b>						
42-02*	1-Dec-2015	7.32	3,424	19.70	7.41	262.0
	26-Aug-2015	7.03	3,432	21.70	NM	238.8
42-03*	1-Dec-2015	7.21	4,736	20.46	5.68	149.8
	26-Aug-2015	6.97	5,861	25.81	NM	236.5
42-06*	1-Dec-2015	7.68	3,042	18.65	6.21	188.1
	26-Aug-2015	7.39	3,551	23.21	NM	232.7
42-07*	1-Dec-2015	Dry				
	26-Aug-2015	Dry				
42-08*	1-Dec-2015	Dry				
	26-Aug-2015	7.74	2,245	22.68	NM	206.6
42-09*	1-Dec-2015	Destroyed				
	26-Aug-2015	7.12	4,773	24.28	NM	245.8
42-10*	1-Dec-2015	7.46	2,222	22.17	7.39	167.4
	25-Aug-2015	7.20	2,565	27.01	NM	220.5
42-11*	1-Dec-2015	7.49	1,892	24.59	5.89	140.5
	25-Aug-2015	7.37	2,112	28.24	NM	172.7
42-12*	1-Dec-2015	7.73	1,893	22.11	7.43	149
	25-Aug-2015	7.33	2,204	28.36	NM	201.8
42-13*	1-Dec-2015	Dry/Water Level Below Pump				
	26-Aug-2015	7.09	5,190	25.31	NM	221.7
<b>Dominguez Dairy</b>						
624-01	10-Nov-2015	7.20	4,741	20.20	3.83	181.7
	7-Aug-2015	6.96	4,585	21.49	2.59	3.8
624-02	10-Nov-2015	7.20	3,548	18.15	1.69	90.4
	7-Aug-2015	7.07	4,158	22.03	1.94	74.8
624-04	10-Nov-2015	Dry				
	7-Aug-2015	Dry				
624-05	10-Nov-2015	Dry				
	7-Aug-2015	Dry				
624-06	10-Nov-2015	Dry				
	7-Aug-2015	Dry				
624-07	10-Nov-2015	Insufficient Water-Parameters Not Collected				
	7-Aug-2015	Insufficient Water-Parameters Not Collected				
624-08	10-Nov-2015	Dry				
	7-Aug-2015	Dry				

**TABLE 2. SUMMARY OF MONITORING WELL GROUNDWATER FIELD PARAMETERS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	pH	SpC (uS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)
<b>Gonzalez Dairy</b>						
177-01	11-Nov-2015	7.32	5,790	20.81	1.56	188.9
	21-Aug-2015	7.05	6,118	20.90	NM	242.7
177-02	11-Nov-2015	7.36	3,964	21.15	3.82	109.3
	21-Aug-2015	7.11	4,229	21.80	NM	254.6
177-03A	11-Nov-2015	7.27	3,964	20.69	1.89	218.1
	21-Aug-2015	7.08	3,100	22.50	NM	227.6
177-04	11-Nov-2015	7.39	5,889	26.93	1.61	227.1
	21-Aug-2015	6.96	6,091	21.70	NM	226.8
177-05	11-Nov-2015	7.45	5,241	18.92	3.84	151.4
	21-Aug-2015	7.17	5,662	21.50	NM	219.1
177-06	11-Nov-2015	Dry				
	21-Aug-2015	Dry				
177-07R	11-Nov-2015	7.32	5,017	20.61	3.47	201.4
	21-Aug-2015	7.07	5,710	23.11	NM	250.2
<b>CENTRAL AREA</b>						
<b>Buena Vista Dairy II</b>						
74-01	12-Nov-2015	7.26	3,836	20.15	1.06	210.6
	24-Aug-2015	7.37	4,959	22.17	NM	243.2
74-02	11-Nov-2015	7.32	3,315	21.76	0.90	194.9
	24-Aug-2015	7.22	3,377	21.48	NM	252.2
74-03	12-Nov-2015	7.36	4,868	20.28	1.11	233.4
	24-Aug-2015	7.24	5,541	22.39	NM	263.7
74-04	12-Nov-2015	7.32	2,868	17.58	3.06	197.2
	24-Aug-2015	7.41	3,134	22.42	NM	182.8
74-05	12-Nov-2015	7.20	2,923	20.12	1.23	214.2
	24-Aug-2015	7.11	3,179	24.11	NM	240.7

**TABLE 2. SUMMARY OF MONITORING WELL GROUNDWATER FIELD PARAMETERS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	pH	SpC (uS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)
<b>River Valley Dairy</b>						
167-01A	16-Nov-2015	7.34	4,001	19.50	1.41	221.2
	24-Aug-2015	7.47	4,361	27.51	NM	77.5
167-02	16-Nov-2015	Dry				
	24-Aug-2015	Insufficient Water-Parameters Not Collected				
167-03	16-Nov-2015	7.34	2,998	21.43	1.46	246.1
	25-Aug-2015	7.29	3,054	21.90	NM	198.2
167-04	16-Nov-2015	7.50	4,234	20.07	NM	223.0
	25-Aug-2015	7.35	4,944	21.43	NM	171.1
167-05	13-Nov-2015	7.25	4,146	19.81	1.11	142.6
	25-Aug-2015	7.20	4,308	20.69	NM	223.5
167-06	13-Nov-2015	7.26	3,612	20.60	1.02	171.1
	24-Aug-2015	7.13	3,782	22.71	NM	252.5
167-07	13-Nov-2015	7.64	1,825	18.72	1.12	-114.1
	24-Aug-2015	7.29	4,621	20.89	NM	72.4
167-08	23-Nov-2015	7.38	3,463	17.09	1.27	32.8
	25-Aug-2015	Bailer Stuck in Well-Parameters Not Collected				
167-09	13-Nov-2015	7.25	3,381	18.69	1.06	0.5
	25-Aug-2015	7.21	3,352	19.37	NM	226.5
<b>Big Sky Dairy</b>						
833-01	18-Nov-2015	Dry				
	27-Aug-2015	Dry				
833-02	18-Nov-2015	7.58	5,996	19.69	2.45	210.1
	27-Aug-2015	8.17	3,718	24.36	NM	176.1
833-03	18-Nov-2015	Dry				
	27-Aug-2015	Dry				
833-04	19-Nov-2015	7.69	3,169	19.07	4.15	218.6
	27-Aug-2015	7.52	3,656	22.15	NM	190.9
833-05	18-Nov-2015	6.98	4,260	23.40	3.44	190.2
	27-Aug-2015	6.93	3,979	23.52	NM	232.1
833-06	19-Nov-2015	7.32	3,564	19.59	5.36	221.7
	27-Aug-2015	7.26	3,677	23.01	NM	199.7
833-07	18-Nov-2015	7.01	5,810	21.86	2.02	222.2
	27-Aug-2015	7.07	6,630	22.51	NM	232.2
833-08	18-Nov-2015	7.17	3,067	20.30	5.05	158.7
	27-Aug-2015	7.13	3,599	22.17	NM	222.4
833-09	18-Nov-2015	7.26	5,356	20.04	1.91	217.2
	27-Aug-2015	7.39	5,341	22.71	NM	214.8
833-10	18-Nov-2015	7.21	3,600	19.11	2.08	210.6
	27-Aug-2015	7.14	3,861	19.66	NM	231.7

**TABLE 2. SUMMARY OF MONITORING WELL GROUNDWATER FIELD PARAMETERS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	pH	SpC (uS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)
<b>Sunset/Desert Land Dairy</b>						
257-01	19-Nov-2015	7.48	4,943	20.16	2.27	184.9
	28-Aug-2015	7.47	5,032	21.14	NM	189.4
257-02	19-Nov-2015	7.41	4,064	21.09	3.38	204.7
	28-Aug-2015	7.27	3,912	21.30	NM	243.8
257-03	19-Nov-2015	Dry				
	28-Aug-2015	7.34	3,520	24.08	NM	241.6
257/260-01	19-Nov-2015	7.90	3,217	19.97	0.98	-97.6
	28-Aug-2015	7.66	1,840	21.64	NM	194.4
<b>Additional Wells</b>						
Bruce1	Aug-2015	Parameters Not Collected				
Bruce2	Aug-2015	Parameters Not Collected				
<b>SOUTHERN AREA</b>						
<b>Del Oro Dairy</b>						
692-01	2-Dec-2015	6.95	3,550	20.70	1.43	157.5
	31-Aug-2015	Pump Not Operational-Parameters Not Collected				
692-02	2-Dec-2015	6.90	4,801	20.76	1.61	163.4
	31-Aug-2015	6.72	5,119	22.51	NM	198.1
692-04	2-Dec-2015	Dry				
	31-Aug-2015	Dry				
692-05*	2-Dec-2015	7.58	2,127	18.67	13.45	242.9
	31-Aug-2015	7.92	2,713	31.25	NM	124.7
692-06	1-Dec-2015	7.31	2,147	20.76	2.17	95.2
	31-Aug-2015	7.44	2,420	25.12	NM	119.7
692-07*	2-Dec-2015	7.68	2,189	17.55	7.20	245.8
	31-Aug-2015	7.37	2,667	25.70	NM	132.9
692-08*	1-Dec-2015	7.30	2,009	20.67	8.14	234.2
	31-Aug-2015	7.25	2,385	23.15	NM	134.7
692-09*	2-Dec-2015	7.65	2,015	18.78	8.02	155.9
	31-Aug-2015	7.57	2,420	27.64	NM	168.5
<b>Anthony Waste Water Treatment Plant</b>						
MW-1	Aug-2015	Parameters Not Collected				
MW-2	Aug-2015	Parameters Not Collected				
MW-3	Aug-2015	Parameters Not Collected				

**TABLE 2. SUMMARY OF MONITORING WELL GROUNDWATER FIELD PARAMETERS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	pH	SpC (uS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)
<b>ABATEMENT PLAN MONITOR WELLS</b>						
DAD-01	23-Nov-2015	7.21	2,636	22.29	4.60	-7.4
	1-Sep-2015	7.28	2,406	24.74	NM	255.7
DAD-02	23-Nov-2015	7.31	2,454	22.81	5.28	95.5
	31-Aug-2015	7.48	2,633	25.05	NM	220.6
DAD-03	23-Nov-2015	7.33	3,365	21.04	1.30	-47.3
	1-Sep-2015	7.37	4,085	23.27	NM	225.8
DAD-04	23-Nov-2015	7.68	2,587	19.50	1.92	-29.6
	1-Sep-2015	7.76	3,591	22.82	NM	164.8
DAD-05	23-Nov-2015	7.29	3,106	19.79	1.71	29.8
	1-Sep-2015	7.52	2,935	22.60	NM	101.4
DAD-06	23-Nov-2015	Dry				
	1-Sep-2015	Dry				
DAD-07	30-Nov-2015	7.09	3,088	21.59	4.65	257.1
	1-Sep-2015	7.37	3,569	26.31	NM	148.2
DAD-08	23-Nov-2015	7.20	8,036	26.21	3.73	95.1
	1-Sep-2015	7.54	8,449	23.03	NM	181.8
DAD-09	23-Nov-2015	7.01	2,837	21.88	2.08	127.2
	2-Sep-2015	7.19	3,006	24.32	NM	243.3
DAD-10	24-Nov-2015	7.37	2,259	21.32	2.13	81.6
	3-Sep-2015	7.27	2,421	22.08	NM	241.2
DAD-11	24-Nov-2015	7.22	6,105	22.14	1.25	151.2
	1-Sep-2015	6.94	4,712	23.60	NM	246.7
DAD-12	24-Nov-2015	7.20	4,205	22.34	1.67	106.3
	1-Sep-2015	6.99	4,285	22.76	NM	261.4
DAD-13	24-Nov-2015	7.01	3,306	22.97	1.54	126.5
	1-Sep-2015	7.31	3,595	24.61	NM	226.0
DAD-14	24-Nov-2015	7.56	5,242	21.02	2.60	139.1
	1-Sep-2015	7.42	5,006	21.43	NM	247.2
DAD-15	24-Nov-2015	7.22	2,630	22.17	3.36	171.1
	3-Sep-2015	7.14	2,702	23.39	NM	240.8



**TABLE 2. SUMMARY OF MONITORING WELL GROUNDWATER FIELD PARAMETERS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	pH	SpC (uS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)
DAD-16	30-Nov-2015	7.34	3,424	18.55	2.81	229.8
	2-Sep-2015	7.35	2,861	20.26	NM	251.4
DAD-17	30-Nov-2015	7.46	1,621	19.06	2.78	226.0
	2-Sep-2015	7.35	2,099	20.55	NM	252.1
DAD-18	30-Nov-2015	7.23	3,781	18.11	2.89	239.5
	2-Sep-2015	7.24	4,009	19.26	NM	252.9
DAD-19	30-Nov-2015	7.13	4,730	21.08	3.07	248.2
	2-Sep-2015	7.09	4,900	24.03	NM	238.0
DAD-20	24-Nov-2015	7.33	3,456	22.11	4.67	157.1
	2-Sep-2015	7.33	3,783	24.90	NM	155.1
DAD-21	23-Nov-2015	7.17	3,174	21.19	4.52	122.1
	2-Sep-2015	7.17	3,349	23.03	NM	225.0
DAD-22	23-Nov-2015	7.28	2,913	22.16	3.95	126.0
	2-Sep-2015	7.65	4,065	25.17	NM	207.8

NOTES:

\* = Well contains a pump; as a result, DO and ORP values are not representative of aquifer conditions.

°C = Degrees celsius

DO = Dissolved oxygen

mg/L = Milligrams per liter

mV = Millivolts

NM = Not measured

ORP = Oxidation-reduction potential

SpC = Specific conductance

Temp = Temperature

uS/cm = Microsiemens per centimeter

**TABLE 3. SUMMARY OF SAMPLE ANALYTICAL METHODS AND COLLECTION REQUIREMENTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Target Analytes	Analytical Method	Sample Container	Preservative	Holding Time
<b>Groundwater Samples</b>				
Nitrate/Nitrite	EPA 300.0/ SM 4500 NO3 E	250 mL HDPE Bottle	H <sub>2</sub> SO <sub>4</sub> to pH2, Cool to <6°C	28 Days
Total Kjeldhal Nitrogen	SM 4500 NORG C	250 mL HDPE Bottle	H <sub>2</sub> SO <sub>4</sub> to pH2, Cool to <6°C	28 Days
Chloride	EPA 300.0	250 mL HDPE Bottle	Cool to <6°C	28 Days
Total Dissolved Solids	SM 2540 C MOD	250 mL HDPE Bottle	Cool to <6°C	28 Days
NOTES: °C = Degree Celsius ASTM = American Society for Testing and Materials EPA = U.S. Environmental Protection Agency H <sub>2</sub> SO <sub>4</sub> = Sulfuric Acid HDPE = High-density polyethylene mL = milliliters				

**TABLE 4. ABATEMENT PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
<b>Abatement Plan Monitoring Wells</b>						
DAD-01	23-Nov-15	4.17	<1.18	491	1,680	NA
	1-Sep-15	8.52	2.10	420	1,600	NA
	27-May-15	10.9	<1.18	418	1,640	NA
	4-Mar-15	4.70	<1.80	459	1,910	NA
	3-Dec-14	6.53	<1.80	468	1,780	NA
	29-Aug-14	8.28	<1.80	425	1,830	NA
	3-Jun-14	6.13	<1.80	491	2,020	NA
	10-Mar-14	5.76	<1.66	496	1,780	NA
	11-Dec-13	7.61	3.50	471	1,760	NA
	10-Sep-13	4.43	2.80	472	1,920	NA
	16-May-13	10.4	<1.66	408	1,930	NA
	28-Feb-13	10.0	<1.72	469	1,740	NA
	3-Dec-12	10.7	<1.72	348	1,800	NA
	21-Aug-12	9.98	<1.72	373	1,640	NA
	9-May-12	6.88	2.80	401	1,660	NA
	31-Jan-12	9.90	2.52	439	1,520	NA
	27-Oct-11	9.56	3.50	436	1,840	256
	20-Jul-11	12.0	2.38	426	1,650	NA
	20-Apr-11	10.3	<2.17	460	1,710	NA
	24-Jan-11	19.8	3.50	408	1,820	NA
	16-Sep-10	7.56	<10.0	439	1,800	NA
	29-Jun-10	8.55	<1.0	491	2,120	NA
	21-Mar-10	6.3	<5.0	500	1,780	NA
9-Dec-09	7.5	1.5	550	2,010	NA	
NMED Split	9-Dec-09	7.3	2.8	468	356	264
	29-Aug-09	7.3	<5.0	540	1,970	NA
	12-May-09	5.6	<1.0	540	1,800	NA
DAD-02	23-Nov-15	10.3	<1.18	493	1,600	NA
	31-Aug-15	10.3	3.50	511	1,760	NA
	27-May-15	10.6	<1.18	465	1,540	NA
	4-Mar-15	9.15	<1.80	440	1,560	NA
	3-Dec-14	8.47	<1.80	542	1,710	NA
	29-Aug-14	7.05	<1.80	451	1,690	NA
	3-Jun-14	5.18	<1.80	506	1,640	NA
	10-Mar-14	7.75	<1.66	463	1,620	NA
	11-Dec-13	7.91	2.80	443	1,540	NA
	9-Sep-13	7.14	<1.66	337	1,900	NA
	16-May-13	9.19	<1.66	393	1,750	NA
	1-Mar-13	8.52	<1.72	357	1,520	NA
	3-Dec-12	8.51	<1.72	345	1,800	NA
	21-Aug-12	4.39	2.10	301	1,570	NA
	9-May-12	7.71	<1.72	373	1,830	NA
	31-Jan-12	7.66	<2.17	335	1,720	NA
	27-Oct-11	8.30	2.52	380	1,360	475
	20-Jul-11	7.66	<2.17	374	1,750	NA
	21-Apr-11	7.97	<2.17	434	1,760	NA
	24-Jan-11	6.38	2.80	443	2,240	NA
	16-Sep-10	3.44	<10.0	385	1,790	NA
	29-Jun-10	8.11	<0.5	364	1,870	NA
	21-Mar-10	8.1	<1.0	420	1,970	NA
9-Dec-09	9.0	<1.0	440	1,920	NA	
NMED Split	9-Dec-09	9	0.39	388	1,970	586
	29-Aug-09	9.9	<2.0	490	1,890	NA
	14-May-09	7.4	<5.0	350	1,700	NA

**TABLE 4. ABATEMENT PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
DAD-03	23-Nov-15	<0.194	<1.18	603	2,440	NA
	1-Sep-15	<0.194	1.40	702	2,720	NA
	27-May-15	<0.0470	<1.18	738	2,620	NA
	4-Mar-15	<0.0470	<1.80	609	2,630	NA
	3-Dec-14	<0.126	<1.80	569	2,560	NA
	29-Aug-14	<0.126	<1.80	686	2,890	NA
	9-Jun-14	<0.187	<1.80	838	3,410	NA
	10-Mar-14	0.906	<1.66	917	3,480	NA
	11-Dec-13	<0.213	<1.66	932	3,180	NA
	10-Sep-13	Not Sampled - insufficient water to sample				
	16-May-13	1.07	<1.66	1,400	4,420	NA
	1-Mar-13	0.721	<1.72	1,220	3,720	NA
	3-Dec-12	1.1	<1.72	1,150	4,760	NA
	21-Aug-12	<0.0290	2.80	1,090	3,920	NA
	9-May-12	<0.114	2.66	1,200	4,160	NA
	31-Jan-12	<0.500	4.34	1,340	4,350	NA
	26-Oct-11	<0.500	3.22	1,790	5,420	1,100
	20-Jul-11	<1.00	3.22	1,630	4,720	NA
	21-Apr-11	<0.500	<2.17	1,870	5,600	NA
	24-Jan-11	<0.00955	4.20	1,590	4,660	NA
	16-Sep-10	0.217	<10.0	1,370	4,320	NA
	29-Jun-10	<0.5	6.18	1,570	5,150	NA
	21-Mar-10	<10	<1.0	2,200	5,620	NA
9-Dec-09	<10	<5.0	2,100	5,590	NA	
NMED Split	9-Dec-09	<0.1	0.88	1,570	5,300	1,160
	29-Aug-09	<0.10	<5.0	1,400	4,420	NA
	12-May-09	<10	<5.0	1,200	5,000	NA
DAD-04	23-Nov-15	0.0853	6.16	443	1,690	NA
	1-Sep-15	<0.194	2.10	561	2,320	NA
	27-May-15	0.176	<1.18	475	1,820	NA
	4-Mar-15	0.819	<1.80	195	1,280	NA
	3-Dec-14	1.65	<1.80	185	1,260	NA
	29-Aug-14	<0.126	<1.80	483	2,060	NA
	3-Jun-14	0.988	3.50	740	2,810	NA
	10-Mar-14	1.01	<1.66	694	2,600	NA
	11-Dec-13	1.69	<1.66	604	2,400	NA
	5-Sep-13	0.827	9.10	544	2,710	NA
	16-May-13	<0.0420	<1.66	613	2,320	NA
	1-Mar-13	2.12	<1.72	510	2,090	NA
	5-Dec-12	2.740	<1.72	545	2,430	NA
	21-Aug-12	<0.0290	<1.72	496	2,620	NA
	9-May-12	0.305	<1.72	502	1,970	NA
	31-Jan-12	2.05	<2.17	493	2,320	NA
	26-Oct-11	<0.500	2.80	590	2,950	380
	20-Jul-11	<0.500	<2.17	670	2,540	NA
	20-Apr-11	<0.500	<2.17	584	2,570	NA
	24-Jan-11	<0.00955	2.66	608	2,400	NA
	16-Sep-10	<0.100	<10.0	683	2,560	NA
	29-Jun-10	<0.5	1.4	570	2,330	NA
	21-Mar-10	<2.0	<2.0	620	2,460	NA
9-Dec-09	<2.0	1.7	810	2,720	NA	
NMED Split	9-Dec-09	<0.1	1.2	659	2,630	373
	29-Aug-09	<2.0	<5.0	690	2,690	NA
	13-May-09	<2.0	<5.0	690	2,700	NA

**TABLE 4. ABATEMENT PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
DAD-05	23-Nov-15	<0.194	2.80	493	2,100	NA
	1-Sep-15	2.15	1.40	388	2,100	NA
	27-May-15	4.48	<1.18	436	2,180	NA
	4-Mar-15	10.5	<1.80	564	2,400	NA
	3-Dec-14	2.55	<1.80	273	1,300	NA
	29-Aug-14	1.87	<1.80	230	1,200	NA
	3-Jun-14	2.20	<1.80	497	2,000	NA
	10-Mar-14	4.81	<1.66	312	1,510	NA
	12-Dec-13	0.898	2.80	72.9	695	NA
	5-Sep-13	2.16	4.90	120	870	NA
	29-May-13	2.44	<1.66	582	2,580	NA
	5-Mar-13	<0.246	<1.72	519	2,100	NA
	5-Dec-12	3.350	<1.72	690	2,930	NA
	22-Aug-12	<0.0290	<1.72	544	2,260	NA
	9-May-12	0.908	2.10	566	2,380	NA
	1-Feb-12	<0.500	<2.17	558	2,020	NA
	26-Oct-11	<0.500	2.66	647	900	377
	20-Jul-11	<0.500	5.04	599	2,460	NA
	20-Apr-11	<0.500	<2.17	430	1,810	NA
	20-Jan-11	0.128	2.10	477	1,870	NA
	16-Sep-10	<2.50	<10.0	536	2,220	NA
	29-Jun-10	< 0.5	1.1	627	2,550	NA
	21-Mar-10	<2.0	<1.0	630	2,340	NA
NMED Split	9-Dec-09	<2.0	1.3	710	2,420	NA
	9-Dec-09	<0.1	0.95	563	2,290	362
	29-Aug-09	<2.0	<2.0	630	2,310	NA
	13-May-09	<2.0	<5.0	640	2,700	NA
Duplicate	13-May-09	<10	1.6	618	2,260	NA
DAD-06	23-Nov-15	Dry				
	1-Sep-15	Dry				
	28-May-15	Dry				
	4-Mar-15	Dry				
	4-Dec-14	Dry				
	12-Aug-14	Dry				
	13-May-14	Dry				
	10-Mar-14	Dry				
	11-Dec-13	Dry				
	5-Sep-13	Dry				
	30-May-13	6.07	<1.66	508	1,690	NA
	4-Mar-13	7.66	<1.72	496	1,510	NA
	5-Dec-12	8.25	<1.72	439	1,610	NA
	21-Aug-12	9.11	2.10	347	1,530	NA
	9-May-12	11.0	<1.72	375	1,570	NA
	31-Jan-12	13.6	<2.17	382	1,510	NA
	27-Oct-11	9.20	<2.17	322	1,060	228
	20-Jul-11	18.0	3.64	358	1,370	NA
	21-Apr-11	18.0	<2.17	349	1,330	NA
	24-Jan-11	12.2	2.10	360	1,270	NA
	16-Sep-10	9.20	<10.0	359	1,370	NA
	29-Jun-10	11.6	<2.0	365	1,460	NA
	21-Mar-10	10	<2.0	390	1,390	NA
9-Dec-09	10	<1.0	380	1,380	NA	
NMED Split	9-Dec-09	8.6	0.36	354	1,440	262
	29-Aug-09	8.2	<5.0	390	1,260	NA
	14-May-09	11	<5.0	350	1,300	NA
Duplicate	14-May-09	8.17	0.4	338	1,250	NA

**TABLE 4. ABATEMENT PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
DAD-07	30-Nov-15	6.82	<1.18	638	2,020	NA
	1-Sep-15	7.45	<1.18	649	2,060	NA
	28-May-15	5.83	<1.18	619	1,960	NA
	5-Mar-15	5.34	<1.80	554	2,060	NA
	3-Dec-14	6.85	<1.80	607	2,180	NA
	2-Sep-14	7.48	<1.80	589	2,150	NA
	12-Jun-14	5.44	<1.80	540	2,020	NA
	11-Mar-14	4.84	2.10	512	1,980	NA
	11-Dec-13	7.94	<1.66	700	2,270	NA
	5-Sep-13	7.01	3.50	650	2,380	NA
	24-May-13	8.42	<1.66	720	2,570	NA
	5-Mar-13	8.15	<1.72	724	2,740	NA
	5-Dec-12	8.03	<1.72	718	2,610	NA
	22-Aug-12	6.88	<1.72	671	2,540	NA
	9-May-12	3.81	<1.72	588	2,150	NA
	31-Jan-12	5.40	<2.17	610	1,640	NA
	26-Oct-11	5.22	2.24	591	750	426
	20-Jul-11	4.67	2.80	554	1,880	NA
	20-Apr-11	4.14	<2.17	525	1,780	NA
	19-Jan-11	0.410	<2.05	518	1,740	NA
	16-Sep-10	<2.50	<10.0	637	1,990	NA
	29-Jun-10	5.17	<0.5	569	2,060	NA
	21-Mar-10	5.1	<1.0	640	1,970	NA
NMED Split	9-Dec-09	5.4	<1.0	620	1,900	NA
	9-Dec-09	5.2	<0.1	536	1,870	403
	29-Aug-09	4.4	<5.0	610	1,780	NA
	14-May-09	4.6	<1.0	530	1,800	NA
DAD-08	23-Nov-15	66.1	<1.18	2,070	5,980	NA
	1-Sep-15	65.3	<1.18	2,050	6,160	NA
	28-May-15	63.0	<1.18	2,050	5,840	NA
	5-Mar-15	48.6	<1.80	1,670	5,740	NA
	3-Dec-14	48.1	<1.80	1,700	5,930	NA
	2-Sep-14	39.5	<1.80	1,700	5,220	NA
	4-Jun-14	55.8	2.10	2,210	5,840	NA
	11-Mar-14	71.7	<1.66	2,450	6,400	NA
	12-Dec-13	70.7	2.80	2,500	6,780	NA
	5-Sep-13	74.9	2.80	2,440	7,440	NA
	24-May-13	71.5	<1.66	2,140	6,740	NA
	4-Mar-13	90.0	<1.72	2,280	7,060	NA
	5-Dec-12	40.2	<1.72	2,270	5,980	NA
	22-Aug-12	32.2	<1.72	2,430	7,220	NA
	9-May-12	2.39	<1.72	1,150	3,260	NA
	31-Jan-12	2.69	<2.17	1,250	2,990	NA
	26-Oct-11	2.80	<2.17	1,260	2,500	471
	20-Jul-11	3.36	3.78	1,320	3,060	NA
	20-Apr-11	4.33	<2.17	1,300	3,280	NA
	19-Jan-11	<0.239	2.10	1,240	2,600	NA
	17-Sep-10	<2.50	<10.0	1,370	3,230	NA
	29-Jun-10	2.53	<1.0	1,290	5,950	NA
	21-Mar-10	<4.0	<1.0	1,300	3,270	NA
NMED Split	9-Dec-09	<4.0	<1.0	1,400	3,290	NA
	9-Dec-09	3.1	0.26	1,400	3,070	509
	29-Aug-09	<4.0	<2.0	1,500	3,180	NA
	14-May-09	3.0	<5.0	1,300	3,600	NA

**TABLE 4. ABATEMENT PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
DAD-09	23-Nov-15	4.95	<1.18	563	1,940	NA
	2-Sep-15	7.22	<1.18	536	1,920	NA
	27-May-15	5.25	<1.18	508	1,920	NA
	4-Mar-15	4.01	<1.80	474	1,800	NA
	5-Dec-14	4.27	<1.80	495	1,800	NA
	28-Aug-14	5.25	<1.80	466	1,720	NA
	4-Jun-14	3.14	<1.80	440	1,580	NA
	18-Mar-14	3.44	<1.66	418	1,480	NA
	16-Dec-13	17.4	<1.66	294	1,200	NA
	30-Aug-13	12.3	2.10	454	1,800	NA
	30-May-13	9.69	<1.66	435	1,740	NA
	6-Mar-13	17.1	<1.72	494	1,840	NA
	4-Dec-12	33.1	<1.72	588	2,200	NA
	20-Aug-12	48.4	<1.72	656	2,540	NA
	10-May-12	50.9	<1.72	561	2,270	NA
	31-Jan-12	59.8	<2.17	622	2,220	NA
	26-Oct-11	77.7	<2.17	728	1,600	433
	20-Jul-11	70.2	<2.17	727	2,500	NA
	20-Apr-11	47.5	<2.17	483	1,910	NA
	NMED Split	19-Jan-11	42.8	2.38	745	2,600
17-Sep-10		22.6	<10.0	204	47	NA
29-Jun-10		59.2	<5.0	667	2,240	NA
21-Mar-10		29	<5.0	290	1,190	NA
9-Dec-09		26	<5.0	300	1,190	NA
9-Dec-09		22	1.6	228	1,170	152
29-Aug-09		46	<5.0	640	2,320	NA
13-May-09		44	<5.0	740	2,400	NA

**TABLE 4. ABATEMENT PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
DAD-10	24-Nov-15	0.723	<1.18	146	1,560	NA
	3-Sep-15	6.53	<1.18	455	1,680	NA
	27-May-15	13.1	<1.18	490	1,550	NA
	4-Mar-15	13.9	<1.80	453	1,720	NA
	5-Dec-14	12.8	<1.80	461	1,720	NA
	3-Oct-14	12.5	<1.80	419	1,720	NA
	28-Aug-14	17.0	<1.80	445	1,740	NA
	9-Jun-14	6.86	<1.80	454	1,560	NA
	18-Mar-14	7.79	<1.66	475	1,620	NA
	16-Dec-13	8.34	4.90	475	1,600	NA
	5-Sep-13	6.01	3.50	451	1,480	NA
	23-May-13	5.42	<1.66	453	1,450	NA
	6-Mar-13	4.83	<1.72	468	1,620	NA
	4-Dec-12	4.33	<1.72	434	1,510	NA
	20-Aug-12	2.86	<1.72	389	2,520	NA
	10-May-12	1.52	<1.72	361	1,400	NA
	31-Jan-12	<0.500	<2.17	433	800	NA
	26-Oct-11	3.33	2.80	384	1,150	206
	20-Jul-11	2.29	<2.17	383	1,290	NA
	20-Apr-11	1.30	<2.17	411	1,340	NA
	19-Jan-11	12.7	2.10	429	1,140	NA
	17-Sep-10	2.73	<10.0	404	1,320	NA
	29-Jun-10	1.28	<1.0	390	1,360	NA
21-Mar-10	<2.0	<1.0	420	1,380	NA	
NMED Split	9-Dec-09	1.4	<1.0	460	1,360	NA
	9-Dec-09	1.5	<0.1	378	1,340	196
	29-Aug-09	1.2	<1.0	420	1,340	NA
	14-May-09	<2.0	<1.0	410	1,300	NA



**TABLE 4. ABATEMENT PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
DAD-11 Vertical Delineation (formerly 177-03)	24-Nov-15	17.1	8.40	1,320	4,030	NA
	1-Sep-15	12.4	<1.18	981	3,120	NA
	29-May-15	13.9	<1.18	990	3,070	NA
	5-Mar-15	19.7	<1.80	1,220	3,960	NA
	5-Dec-14	19.9	<1.80	1,230	3,870	NA
	3-Sep-14	11.1	<1.80	717	2,950	NA
	6-Jun-14	1.31	4.90	477	1,860	NA
	17-Mar-14	12.0	<1.66	890	3,230	NA
	16-Dec-13	15.0	2.10	1,170	3,790	NA
	9-Sep-13	13.6	2.80	1,080	3,560	NA
	29-May-13	15.7	<1.66	1,110	3,600	NA
	1-Mar-13	14.6	<1.72	1,190	3,600	NA
	3-Dec-12	13.4	<1.72	1,210	3,870	NA
	21-Aug-12	8.71	<1.72	818	3,020	NA
	14-May-12	0.791	<1.72	359	1,550	NA
	1-Feb-12	2.38	<2.17	456	1,700	NA
	27-Oct-11	<0.500	<2.17	434	1,290	215
	2-Aug-11	<0.500	<2.17	427	1,490	NA
	5-May-11	<0.500	<2.17	398	1,360	NA
	25-Jan-11	4.60	<2.05	386	1,500	NA
	21-Sep-10	3.21	<10.0	369	1,520	NA
	29-Jun-10	1.6	<1.0	430	1,610	NA
	28-Apr-10	1.5	<1.0	450	1,600	NA
20-Jan-10	1.4	<1.0	460	1,600	NA	
21-Oct-09	1.0	<1.0	430	1,600	NA	
7-Jul-09	0.80	<1.0	470	1,500	NA	
6-May-09	0.97	3.5	450	1,600	NA	
22-Jan-09	1.00	<1.0	370	1,600	NA	
DAD-12 Vertical Delineation	24-Nov-15	19.8	<1.18	735	2,860	NA
	1-Sep-15	19.8	<1.18	759	2,950	NA
	29-May-15	14.6	<1.18	705	2,860	NA
	6-Mar-15	19.0	<1.80	625	2,860	NA
	4-Dec-14	19.0	<1.80	620	2,760	NA
	3-Sep-14	18.6	<1.80	588	2,700	NA
	9-Jun-14	19.3	<1.80	603	2,750	NA
	17-Mar-14	20.5	<1.66	621	2,890	NA
	13-Dec-13	18.5	2.10	638	2,840	NA
	10-Sep-13	18.1	2.80	557	2,950	NA
	29-May-13	18.2	<1.66	686	3,130	NA
	28-Feb-13	22.8	<1.72	688	2,820	NA
	3-Dec-12	16.4	<1.72	689	3,070	NA
	21-Aug-12	17.8	2.10	620	2,990	NA
	14-May-12	23.1	<1.72	561	2,870	NA
1-Feb-12	20.8	<2.17	614	2,670	NA	
7-Dec-11	18.8	<2.17	597	2,620	616	

**TABLE 4. ABATEMENT PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
DAD-13	24-Nov-15	9.98	<1.18	642	2,280	NA
	1-Sep-15	9.82	<1.18	611	2,300	NA
	29-May-15	11.8	<1.18	666	2,280	NA
	6-Mar-15	6.72	<1.80	553	2,120	NA
	4-Dec-14	9.14	<1.80	581	2,160	NA
	2-Sep-14	6.51	<1.80	386	1,960	NA
	9-Jun-14	5.82	<1.80	507	2,000	NA
	17-Mar-14	6.59	<3.32	528	1,960	NA
	13-Dec-13	5.83	<1.66	546	1,940	NA
	9-Sep-13	3.42	2.80	524	1,800	NA
	29-May-13	5.00	<1.66	550	2,020	NA
	28-Feb-13	5.63	<1.72	582	1,970	NA
	3-Dec-12	5.04	<1.72	504	1,810	NA
	21-Aug-12	3.51	<1.72	420	1,900	NA
	10-May-12	8.66	<1.72	514	2,010	NA
1-Feb-12	7.59	<2.17	537	1,960	NA	
27-Oct-11	7.51	2.52	536	3,700	321	
DAD-14	24-Nov-15	33.9	<1.18	1,220	3,550	NA
	1-Sep-15	32.1	<1.18	1,110	3,260	NA
	29-May-15	32.7	<1.18	1,030	3,320	NA
	5-Mar-15	30.2	<1.80	949	3,280	NA
	4-Dec-14	30.3	<1.80	933	3,200	NA
	2-Sep-14	26.7	2.10	878	3,240	NA
	6-Jun-14	29.6	<1.80	943	3,340	NA
	17-Mar-14	41.3	<1.66	1,040	3,620	NA
	13-Dec-13	31.9	<1.66	929	3,160	NA
	9-Sep-13	29.2	3.50	1,010	3,590	NA
	29-May-13	34.6	<1.66	1,030	3,520	NA
	1-Mar-13	42.0	16.8	1,130	3,730	NA
	3-Dec-12	40.3	<1.72	1,150	4,010	NA
	21-Aug-12	33.2	<1.72	919	3,340	NA
	14-May-12	28.8	<1.72	881	3,280	NA
1-Feb-12	20.3	<2.17	861	2,880	NA	
27-Oct-11	17.2	2.80	835	1,780	447	
DAD-15	24-Nov-15	5.06	<1.18	538	1,720	NA
	1-Sep-15	4.20	<1.18	501	1,760	NA
	29-May-15	5.43	<1.18	536	1,940	NA
	6-Mar-15	5.08	<1.80	491	1,780	NA
	4-Dec-14	5.79	<1.80	508	1,730	NA
	2-Sep-14	5.97	<1.80	489	1,620	NA
	6-Jun-14	6.09	<1.80	510	1,750	NA
	2-Jan-14	4.72	2.10	497	1,780	NA
	10-Sep-13	7.56	3.50	356	1,740	NA
	29-May-13	5.29	<1.66	504	1,970	NA
	4-Mar-13	5.10	<1.72	515	1,800	NA
	4-Dec-12	4.710	<1.72	484	1,810	256
20-Aug-12	2.370	35.00	351	1,330	256	

**TABLE 4. ABATEMENT PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
DAD-16	30-Nov-15	1.25	<1.18	611	2,520	NA
	2-Sep-15	2.72	1.40	424	1,970	NA
	29-May-15	3.30	1.40	431	2,060	NA
	5-Mar-15	1.04	<1.80	683	2,650	NA
	4-Dec-14	2.79	<1.80	679	2,220	NA
	2-Sep-14	2.44	<1.80	579	2,300	NA
	3-Jun-14	1.49	2.10	569	2,260	NA
	10-Mar-14	1.65	<1.66	573	2,100	NA
	12-Dec-13	1.28	2.10	561	2,210	NA
	9-Sep-13	0.832	4.20	538	2,260	NA
	29-May-13	1.68	<1.66	501	2,200	NA
	5-Mar-13	2.55	<1.72	674	2,670	NA
	5-Dec-12	2.420	<1.72	529	2,280	NA
	22-Aug-12	<0.0290	<1.72	472	2,000	NA
	14-May-12	0.147	<1.72	378	2,080	NA
	1-Feb-12	<0.500	<2.17	438	1,960	NA
27-Oct-11	<0.500	3.36	410	1,520	408	
DAD-17	30-Nov-15	<0.0387	<1.18	373	1,550	NA
	2-Sep-15	<0.0387	<1.18	270	1,460	NA
	28-May-15	0.486	<1.18	199	1,560	NA
	5-Mar-15	0.797	<1.80	348	1,660	NA
	5-Dec-14	6.87	<1.80	451	1,820	NA
	3-Sep-14	2.48	<1.80	442	1,920	NA
	3-Jun-14	1.03	<1.80	525	2,600	NA
	11-Mar-14	3.27	<3.32	440	1,820	NA
	12-Dec-13	2.45	2.80	412	1,640	NA
	9-Sep-13	0.370	2.10	451	2,340	NA
	24-May-13	0.827	<1.66	317	1,400	NA
	5-Mar-13	2.06	<1.72	351	1,550	NA
	5-Dec-12	2.28	<1.72	230	1,260	NA
	22-Aug-12	<0.0290	<1.72	189	930	NA
	10-May-12	<0.114	<1.72	353	1,580	NA
	1-Feb-12	<0.500	3.36	113	714	NA
26-Oct-11	<0.500	3.50	175	724	186	
DAD-18 Vertical Delineation	30-Nov-15	8.19	1.68	923	2,760	NA
	2-Sep-15	8.47	3.50	741	2,960	NA
	28-May-15	9.86	1.40	825	2,940	NA
	5-Mar-15	10.0	<1.80	736	2,930	NA
	5-Dec-14	19.3	<1.80	623	2,780	NA
	3-Sep-14	12.1	<1.80	713	2,960	NA
	3-Jun-14	13.2	<1.80	749	2,760	NA
	11-Mar-14	12.8	<1.66	739	2,880	NA
	12-Dec-13	11.8	2.10	719	2,840	NA
	9-Sep-13	10.9	2.80	697	3,040	NA
	29-May-13	11.9	<1.66	734	3,020	NA
	5-Mar-13	11.2	<1.72	712	2,700	NA
	5-Dec-12	10.10	<1.72	643	2,690	NA
	22-Aug-12	9.03	4.62	642	2,790	NA
	10-May-12	9.11	<1.72	558	2,700	NA
1-Feb-12	9.62	<2.17	629	2,470	NA	
7-Dec-11	9.21	<2.17	639	2,670	495	

**TABLE 4. ABATEMENT PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)	
DAD-19 Vertical Delineation	30-Nov-15	41.2	<1.18	1,050	3,260	NA	
	2-Sep-15	36.9	<1.18	1,000	3,260	NA	
	28-May-15	43.6	<1.18	994	3,240	NA	
	6-Mar-15	46.2	<1.80	966	3,160	NA	
	5-Dec-14	10.7	<1.80	782	2,670	NA	
	3-Sep-14	41.0	<1.80	899	3,240	NA	
	4-Jun-14	54.3	<1.80	914	3,220	NA	
	18-Mar-14	50.3	<1.66	861	3,130	NA	
	12-Dec-13	48.9	2.10	930	3,240	NA	
	9-Sep-13	54.6	<1.66	1,260	3,270	NA	
	30-May-13	71.3	<1.66	951	3,560	NA	
	4-Mar-13	69.1	<1.72	986	3,430	NA	
	5-Dec-12	54.2	<1.72	851	3,230	NA	
	21-Aug-12	59.2	<1.72	843	3,470	NA	
	10-May-12	54.8	<1.72	835	3,460	NA	
1-Feb-12	59.8	<2.17	913	2,950	NA		
7-Dec-11	47.4	<2.17	789	3,070	544		
DAD-20	24-Nov-15	21.8	<1.18	810	2,350	NA	
	2-Sep-15	21.0	<1.18	817	2,400	NA	
	27-May-15	20.2	<1.18	905	2,460	NA	
	4-Mar-15	20.4	<1.80	784	2,340	NA	
	4-Dec-14	20.8	<1.80	806	2,240	NA	
	28-Aug-14	19.3	<1.80	603	2,400	NA	
	9-Jun-14	20.4	<1.80	773	2,470	NA	
	18-Mar-14	20.6	<1.66	665	2,120	NA	
	16-Dec-13	20.2	2.10	732	2,140	NA	
	5-Sep-13	19.2	5.60	808	2,870	NA	
	23-May-13	25.2	<1.66	707	2,320	NA	
	6-Mar-13	29.5	<1.72	710	2,280	NA	
	4-Dec-12	17.0	<1.72	704	2,350	NA	
	10-May-12	Obstruction in Well					
	31-Jan-12	21.2	<2.17	568	1,000	NA	
7-Dec-11	16.1	<2.17	611	2,020	383		
DAD-21	23-Nov-15	6.28	<1.18	708	2,090	NA	
	2-Sep-15	4.27	1.40	720	2,100	NA	
	27-May-15	6.44	<1.18	609	1,910	NA	
	4-Mar-15	5.95	<1.80	487	1,850	NA	
	4-Dec-14	5.03	<1.80	465	1,760	NA	
	28-Aug-14	13.0	<1.80	520	2,080	NA	
	4-Jun-14	15.0	<1.80	532	2,180	NA	
	18-Mar-14	18.1	<1.66	592	2,140	NA	
	16-Dec-13	16.9	<1.66	568	1,890	NA	
	5-Sep-13	12.0	4.20	583	1,990	NA	
	24-May-13	6.73	<1.66	509	1,960	NA	
	6-Mar-13	5.76	<1.72	516	1,910	NA	
	4-Dec-12	3.47	<1.72	445	1,720	NA	
	20-Aug-12	3.45	<1.72	409	1,660	NA	
	10-May-12	1.16	<1.72	364	2,840	NA	
31-Jan-12	6.79	2.94	475	1,620	NA		
7-Dec-11	2.14	<2.17	396	1,600	219		

**TABLE 4. ABATEMENT PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
DAD-22	23-Nov-15	6.52	<1.18	964	2,340	NA
	2-Sep-15	6.35	<1.18	948	2,500	NA
	27-May-15	6.56	<1.18	920	2,520	NA
	3-Mar-15	6.22	<1.80	884	2,400	NA
	3-Dec-14	6.52	<1.80	915	2,480	NA
	28-Aug-14	6.60	<1.80	810	2,420	NA
	6-Jun-14	6.80	<1.80	906	2,480	NA
	18-Mar-14	6.38	<1.66	846	2,420	NA
	13-Dec-13	6.35	<1.66	909	2,440	NA
	5-Sep-13	Did Not Contain Enough Water to Sample				
	24-May-13	9.29	<1.66	920	2,580	NA
	6-Mar-13	8.25	<1.72	909	2,610	NA
	4-Dec-12	12.0	<1.72	886	2,740	NA
	20-Aug-12	15.3	2.10	878	2,280	NA
	10-May-12	18.3	<1.72	818	1,580	NA
	1-Feb-12	23.6	<2.17	908	3,000	NA
26-Oct-11	29.5	2.52	781	3,860	494	
<b>NMWQCC Standard</b>		<b>10</b>	<b>NA</b>	<b>250</b>	<b>1,000</b>	<b>600</b>
<p>NOTES:                      Shading indicates exceedence of NMWQCC standard                      NA = Not analyzed                      ND = Non detect                      NMWQCC = New Mexico Water Quality Control Commission                      TDS = Total dissolved solids                      TKN = Total Kjeldahl Nitrogen                      DAD-03 (6-29-10) Roots in sample may have resulted in a measured TKN result.</p>						

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
<b>NMQCC Standard</b>		<b>10</b>	<b>NA</b>	<b>250</b>	<b>1,000</b>
<b>Northern Area</b>					
<b>Northern Land Application Area</b>					
70-03	12-Nov-15	46.9	4.48	2,850	7,040
	19-Aug-15	47.4	<1.18	2,510	6,760
	12-May-15	47.0	1.40	3,060	7,900
	10-Feb-15	34.8	<1.80	744	6,140
	14-Nov-14	49.1	<1.80	2,530	6,360
	20-Aug-14	49.8	<1.80	2,590	7,000
	15-May-14	48.6	<1.80	2,580	6,880
	19-Feb-14	57.1	<1.66	3,400	8,380
	14-Nov-13	45.4	3.50	2,680	6,800
	9-Aug-13	48.7	3.50	2,740	6,890
	9-May-13	58.4	<1.66	3,290	9,200
	13-Feb-13	59.1	<1.72	3,400	8,440
	7-Nov-12	49.5	<1.72	2,850	7,950
	7-Aug-12	45.3	2.94	2,440	6,700
	25-Apr-12	53.1	5.60	2,540	6,550
	2-Feb-12	67.6	<2.17	2,840	7,480
	7-Nov-11	61.6	<2.17	3,270	7,910
	3-Aug-11	63.1	2.80	3,140	8,040
	21-Apr-11	58.9	<2.17	3,130	8,040
	27-Jan-11	71.2	3.36	3,140	7,580
	22-Sep-10	62.8	<10.0	2,940	7,840
	30-Jun-10	57	<1.0	2,200	5,720
	26-Mar-10	29.6	ND	2,160	5,180
15-Dec-09	27.1	ND	2,199	5,462	
2-Sep-09	25.4	ND	2,149	5,570	
4-Jun-09	18.6	ND	1,999	5,518	
4-Mar-09	35.5	ND	2,074	5,418	
70/86/340-01	10-Nov-15	16.0	<1.18	1,740	4,940
	20-Aug-15	8.66	2.80	1,790	4,860
	11-May-15	8.19	<1.18	1,780	4,780
	9-Feb-15	8.79	<1.80	1,620	4,840
	12-Nov-14	15.6	<1.80	2,090	6,320
	15-Aug-14	15.3	<1.80	1,730	5,780
	11-Nov-13	6.65	4.90	1,760	4,780
	8-Aug-13	15.1	3.50	2,190	6,920
	9-May-13	15.1	<1.66	1,930	6,650
	13-Feb-13	16.6	<1.72	2,170	6,660
	5-Nov-12	12.7	<1.72	2,120	4,940
	6-Aug-12	17.1	<1.72	1,870	6,400
	25-Apr-12	11.8	<1.72	1,620	4,280
	2-Feb-12	20.0	8.12	1,750	5,440
	7-Nov-11	25.5	4.76	1,970	5,920
	25-Jul-11	31.0	2.24	1,800	5,500
	21-Apr-11	35.0	<2.17	1,780	5,420
	27-Jan-11	53.5	<2.17	1,370	4,420
	22-Sep-10	39.8	<10.0	1,130	4,000
	30-Jun-10	52	<1.0	1,300	4,090
	26-Mar-10	53	ND	1,200	3,616
	15-Dec-09	64	ND	1,080	3,408
	2-Sep-09	50	ND	1,100	3,610
4-Jun-09	28	ND	1,410	4,340	
4-Mar-09	39.3	ND	1,150	3,820	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
86/340-01	10-Nov-15	11.7	2.24	421	2,260
	20-Aug-15	11.7	<1.18	416	2,150
	11-May-15	12.4	<1.18	450	2,240
	9-Feb-15	10.8	<1.80	410	2,120
	11-Nov-14	11.3	<1.80	398	2,180
	15-Aug-14	11.6	<1.80	400	2,300
	14-May-14	15.4	<1.80	500	2,380
	18-Feb-14	12.4	<1.66	460	2,370
	11-Nov-13	12.2	7.00	641	2,940
	8-Aug-13	12.1	2.10	720	3,230
	9-May-13	12.3	<1.66	603	3,020
	13-Feb-13	12.2	<1.72	571	2,780
	5-Nov-12	12.1	<1.72	638	2,860
	6-Aug-12	11.6	<1.72	708	3,410
	25-Apr-12	12.1	<1.72	641	2,480
	2-Feb-12	12.3	<2.17	655	2,960
	7-Nov-11	11.6	3.08	593	2,910
	25-Jul-11	10.2	<2.17	582	2,500
	21-Apr-11	10.4	<2.17	512	2,660
	27-Jan-11	7.99	<2.17	419	2,040
	22-Sep-10	11.8	<10.0	331	2,060
	30-Jun-10	13	<1.0	410	2,190
	26-Mar-10	9.2	0.7	690	2,656
	29-Jan-10	8.6	ND	530	2,258
2-Sep-09	8.8	ND	510	2,232	
4-Jun-09	5.2	1.12	640	2,582	
4-Mar-09	11.9	ND	675	2,674	
<b>Organ Dairy (Formerly known as Del Norte Dairy and Daybreak Dairy)</b>					
126-04	9-Nov-15	19.2	<1.18	612	2,460
	17-Aug-15	18.4	<1.18	573	2,490
	13-May-15	17.9	4.20	575	2,560
	11-Feb-15	17.1	<1.80	572	2,450
	12-Nov-14	16.4	7.70	556	2,400
	18-Aug-14	15.1	<1.80	536	2,590
	15-May-14	17.4	16.1	514	2,200
	20-Feb-14	17.1	<1.66	564	2,410
	13-Nov-13	16.7	9.10	567	2,240
	12-Aug-13	15.3	18.2	511	2,170
	10-May-13	15.1	<1.66	499	2,310
	12-Feb-13	18.5	<1.72	614	2,640
	7-Nov-12	16.0	3.50	572	2,500
	7-Aug-12	15.9	2.10	568	2,370
	30-Apr-12	15.7	<1.72	539	2,310
	26-Jan-12	17.4	<2.17	560	1,700
	7-Nov-11	18.2	3.92	581	2,470
	3-Aug-11	18.2	6.44	559	2,460
	22-Apr-11	18.0	5.74	594	2,500
	26-Jan-11	11.1	<2.17	570	2,380
	21-Sep-10	20.5	<10.0	542	2,460
	30-Jun-10	21	<5.0	490	2,160
	25-Mar-10	14.9	0.56	530	1,964
	15-Dec-09	11.5	ND	550	1,974
2-Sep-09	9	ND	530	2,028	
4-Jun-09	5.81	ND	550	2,084	
5-Mar-09	14.1	ND	525	2,122	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
126-05	9-Nov-15	20.2	<1.18	643	2,980
	17-Aug-15	18.8	<1.18	627	2,860
	12-May-15	17.6	2.10	670	3,000
	11-Feb-15	28.8	<1.80	713	3,470
	12-Nov-14	19.2	5.60	746	3,500
	18-Aug-14	16.4	<1.80	575	3,080
	15-May-14	23.0	4.90	637	2,960
	20-Feb-14	27.1	<1.66	643	3,140
	13-Nov-13	30.3	4.20	648	3,100
	12-Aug-13	33.9	4.20	594	2,920
	10-May-13	39.0	<1.66	635	3,060
	12-Feb-13	34.2	<1.72	618	3,180
	7-Nov-12	29.2	<1.72	548	2,890
	7-Aug-12	30.8	2.10	548	2,860
	30-Apr-12	28.6	2.38	530	2,840
	26-Jan-12	30.1	<2.17	546	2,520
	4-Nov-11	31.2	<2.17	543	3,510
	4-Aug-11	29.5	4.20	525	2,540
	22-Apr-11	28.0	2.80	615	2,800
	26-Jan-11	25.2	3.64	553	2,870
	21-Sep-10	22.3	<10.0	504	2,240
	30-Jun-10	24	<5.0	540	2,750
	25-Mar-10	13.5	ND	640	2,736
	15-Dec-09	16.6	ND	630	2,554
	2-Sep-09	12.8	1.4	580	2,566
4-Jun-09	10.1	ND	600	2,640	
5-Mar-09	19.9	1.03	610	2,828	
126-07	9-Nov-15	26.5	6.16	571	2,380
	17-Aug-15	23.0	<1.18	559	2,610
	13-May-15	17.9	4.20	575	2,560
	11-Feb-15	24.0	<1.80	546	2,590
	12-Nov-14	23.4	<1.80	586	2,710
	18-Aug-14	21.8	<1.80	565	2,510
	16-May-14	24.8	4.90	583	2,170
	20-Feb-14	25.6	<1.66	615	2,490
	13-Nov-13	24.1	4.20	615	2,330
	12-Aug-13	23.5	5.60	586	2,410
	10-May-13	20.2	<1.66	573	2,620
	12-Feb-13	21.2	<1.72	648	2,740
	7-Nov-12	19.8	<1.72	629	2,870
	7-Aug-12	19.5	2.10	650	2,610
	30-Apr-12	18.8	<1.72	605	2,710
	26-Jan-12	18.8	2.24	666	2,790
	4-Nov-11	19.8	<2.17	668	2,270
	4-Aug-11	19.1	2.24	666	1,410
	22-Apr-11	21.2	<2.17	704	3,110
	27-Jan-11	22.4	<2.17	662	2,670
	21-Sep-10	24.9	<10.0	700	2,800
	30-Jun-10	26	<5.0	760	2,780
	25-Mar-10	12.1	ND	610	2,238
	15-Dec-09	13.8	ND	720	2,412
	2-Sep-09	10.9	ND	820	2,716
4-Jun-09	19.0	ND	810	2,468	
5-Mar-09	16.8	ND	605	2,230	



**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
126-09	9-Nov-15	1.47	6.16	879	2,860
	17-Aug-15	1.40	<1.18	880	2,850
	13-May-15	2.34	<1.18	873	2,500
	11-Feb-15	2.18	<1.80	798	2,740
	13-Nov-14	2.42	<1.80	842	2,500
	18-Aug-14	2.25	<1.80	832	2,840
	15-May-14	2.52	<1.80	893	2,690
	20-Feb-14	2.12	<1.66	911	2,720
	13-Nov-13	2.25	4.20	919	2,710
	12-Aug-13	2.13	5.60	937	2,710
	10-May-13	2.25	<1.66	898	3,300
	12-Feb-13	2.50	<1.72	991	3,090
	7-Nov-12	2.53	<1.72	984	2,980
	7-Aug-12	2.69	2.10	962	3,050
	30-Apr-12	2.28	5.04	978	2,900
	26-Jan-12	3.93	7.00	1,100	3,180
	7-Nov-11	3.30	5.6	1,130	3,470
	4-Aug-11	3.19	<2.17	1,100	3,180
	22-Apr-11	3.31	<2.17	1,120	2,730
	22-Sep-10	2.50	<10.0	1110	3,320
30-Jun-10	Not Sampled				
25-Mar-10					
15-Dec-09					
2-Sep-09					
4-Jun-09					
5-Mar-09					
126-12	9-Nov-15	10.8	8.96	428	2,460
	17-Aug-15	3.49	10.5	407	2,240
	12-May-15	2.43	11.2	393	2,120
	10-Feb-15	<0.0137	29.4	632	2,190
	13-Nov-14	2.57	2.80	409	2,160
	18-Aug-14	16.5	<1.80	384	2,220
	15-May-14	15.4	2.10	404	2,250
	20-Feb-14	13.6	2.10	404	2,370
	13-Nov-13	15.7	3.50	401	2,360
	12-Aug-13	17.0	4.20	434	2,400
	10-May-13	16.2	2.10	398	2,380
	12-Feb-13	18.8	<1.72	421	2,480
	7-Nov-12	19.2	<1.72	407	2,490
	7-Aug-12	17.5	<1.72	410	2,460
	30-Apr-12	12.9	1.96	401	2,270
	14-Feb-12	12.5	4.20	418	2,340
	4-Nov-11	13.3	<2.17	430	2,600
	4-Aug-11	13.6	<2.17	449	2,580
	22-Apr-11	13.2	<2.17	461	2,530
	27-Jan-11	12.2	<2.17	453	2,280
	22-Sep-10	12.6	<10.0	446	2,430
	30-Jun-10	15	<2.0	500	2,610
	25-Mar-10	8.9	ND	550	2,260
15-Dec-09	8.7	ND	540	2,296	
2-Sep-09	12.8	0.56	530	2,336	
4-Jun-09	4.08	0.84	530	2,322	
5-Mar-09	11	ND	475	2,320	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
126-13	9-Nov-15	29.6	<1.18	760	2,850
	17-Aug-15	33.3	<1.18	876	3,100
	12-May-15	40.8	1.40	877	3,210
	10-Feb-15	34.7	2.80	776	2,770
	12-Nov-14	33.9	<1.80	801	2,940
	18-Aug-14	38.2	<1.80	809	3,160
	15-May-14	49.5	<1.80	841	3,010
	20-Feb-14	29.9	<1.66	769	2,780
	13-Nov-13	28.0	2.80	655	2,980
	12-Aug-13	26.8	3.50	780	2,800
	10-May-13	34.1	<1.66	385	3,160
	12-Feb-13	33.7	<1.72	735	2,840
	7-Nov-12	23.8	2.10	751	3,090
	7-Aug-12	26.1	2.10	779	2,860
	30-Apr-12	43.8	<1.72	784	3,120
	26-Jan-12	27.5	<2.17	735	2,800
	7-Nov-11	21.9	<2.17	735	3,060
	4-Aug-11	21.4	<2.17	735	2,840
	22-Apr-11	21.7	<2.17	754	2,640
	26-Jan-11	22.8	<2.17	768	3,130
22-Sep-10	23.1	<10.0	750	2,850	
30-Jun-10	26	<5.0	810	3,000	
25-Mar-10	10.3	ND	940	2,740	
15-Dec-09	14.3	ND	910	2,832	
2-Sep-09	12.8	ND	840	2,746	
4-Jun-09	16.3	ND	970	2,768	
5-Mar-09	19.4	ND	845	2,800	
<b>Mountain View Dairy</b>					
70-01	12-Nov-15	26.0	5.04	630	2,560
	19-Aug-15	34.5	5.60	812	2,660
	12-May-15	23.2	9.10	597	2,520
	10-Feb-15	22.5	10.5	594	2,560
	17-Nov-14	22.0	<1.80	621	2,620
	20-Aug-14	22.5	<1.80	596	2,610
	15-May-14	23.3	2.10	632	2,540
	19-Feb-14	22.6	<1.66	616	2,620
	14-Nov-13	22.3	3.50	510	2,620
	8-Aug-13	22.8	2.80	638	2,670
	9-May-13	22.4	<1.66	616	2,740
	13-Feb-13	24.7	<1.72	655	2,680
	7-Nov-12	21.2	<1.72	636	2,700
	7-Aug-12	21.4	2.10	637	2,700
	25-Apr-12	21.7	<1.72	659	2,490
	2-Feb-12	21.5	2.94	633	2,530
	7-Nov-11	21.1	5.18	622	1,860
	3-Aug-11	20.7	2.8	641	2,630
	22-Apr-11	22.7	22.4	646	2,760
	27-Jan-11	22.5	2.94	650	2,500
	22-Sep-10	19.3	12.3	617	2,610
	30-Jun-10	27	<1.0	600	2,400
	25-Mar-10	14.5	ND	670	2,096
15-Dec-09	17.1	ND	640	2,218	
1-Sep-09	8.4	ND	630	2,244	
2-Jun-09	9.35	ND	640	2,112	
4-Mar-09	20.8	ND	610	2,254	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
70-02	12-Nov-15	36.1	8.40	811	3,210
	19-Aug-15	35.7	<1.18	761	3,320
	12-May-15	36.3	3.50	791	3,810
	10-Feb-15	37.6	<1.80	770	3,200
	17-Nov-14	37.4	<1.80	793	3,180
	20-Aug-14	35.8	<1.80	766	3,160
	14-May-14	37.0	<1.80	781	3,220
	19-Feb-14	36.9	<1.66	793	3,160
	14-Nov-13	36.1	4.90	837	3,200
	9-Aug-13	20.9	29.4	815	2,890
	9-May-13	37.4	<1.66	790	3,260
	13-Feb-13	38.1	<1.72	841	3,160
	7-Nov-12	36.2	<1.72	820	3,300
	7-Aug-12	36.3	3.78	826	3,260
	25-Apr-12	37.9	<1.72	749	2,260
	2-Feb-12	37.5	<2.17	829	3,160
	7-Nov-11	37.7	<2.17	828	2,790
	4-Aug-11	36.8	5.04	798	3,160
	22-Apr-11	38.1	8.40	836	3,220
	27-Jan-11	44.2	6.02	863	3,390
	22-Sep-10	32.2	<10.0	829	3,070
	30-Jun-10	46	< 1.0	860	3,170
	25-Mar-10	19.6	ND	930	3,076
	15-Dec-09	18.3	ND	960	3,012
9-Jan-09	21.4	ND	970	3,148	
2-Jun-09	17.8	ND	920	3,084	
4-Mar-09	35.8	ND	940	3,104	
70-04	12-Nov-15	28.9	5.60	604	2,700
	19-Aug-15	29.4	<1.18	561	2,820
	12-May-15	27.5	1.40	579	2,860
	10-Feb-15	27.0	<1.80	561	2,580
	17-Nov-14	20.2	<1.80	375	2,720
	20-Aug-14	24.4	<1.80	577	2,950
	15-May-14	24.6	<1.80	610	2,630
	19-Feb-14	22.3	<1.66	607	2,580
	14-Nov-13	21.0	2.80	649	2,630
	9-Aug-13	21.7	4.20	636	2,780
	9-May-13	23.0	<1.66	630	3,510
	11-Jan-13	19.5	<1.72	613	6,200
<b>Buena Vista Dairy I</b>					
86-01	26-Jan-11	95.4	16.0	2,300	6,240
	20-Sep-10	86.9	<10.0	2,330	6,500
	29-Jun-10	67	<1.0	1,800	5,010
	25-Mar-10	27.0	0.28	1,770	4,814
	15-Dec-09	29.8	ND	1,750	4,670
	1-Sep-09	26.1	ND	1,510	4,474
	2-Jun-09	46.5	4.76	1,590	4,464
4-Mar-09	42	ND	1,659	4,850	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
86-02	26-Jan-11	23.4	2.24	641	3,110
	20-Sep-10	24.1	<10.0	613	2,980
	29-Jun-10	21	1.1	660	3,020
	25-Mar-10	16.2	0.7	740	2,740
	15-Dec-09	10.7	0.28	730	2,818
	1-Sep-09	7.2	ND	710	2,824
	2-Jun-09	2.95	ND	700	2,802
	4-Mar-09	16.4	ND	625	2,666
<b>Bright Star Dairy</b>					
340-01	9-Nov-15	29.8	<1.18	578	2,820
	20-Aug-15	34.9	<1.18	486	3,080
	11-May-15	41.8	<1.18	437	3,680
	19-Feb-15	50.0	<1.80	339	2,780
	12-Nov-14	49.9	<1.80	337	2,630
	15-Aug-14	37.9	<1.80	383	2,800
	14-May-14	27.4	<1.80	608	2,770
	20-Feb-14	29.1	2.80	564	2,800
	11-Nov-13	29.2	3.50	600	2,800
	8-Aug-13	28.6	4.90	694	2,000
	9-May-13	31.1	<1.66	577	3,700
	13-Feb-13	27.0	<1.72	711	3,340
	5-Nov-12	23.8	<1.72	855	3,180
	6-Aug-12	22.7	<1.72	694	3,380
	25-Apr-12	26.3	61.0	681	2,540
	2-Feb-12	27.4	<2.17	661	2,780
	4-Nov-11	26.6	4.34	691	2,910
	25-Jul-11	28.3	4.20	747	2,830
	27-Jan-11	31.1	3.50	578	2,840
	21-Sep-10	24.8	<10.0	513	3,070
	29-Jun-10	29	<0.10	610	2,810
	24-Mar-10	18.8	ND	580	2,508
15-Dec-09	13.1	ND	650	2,608	
1-Sep-09	12.20	ND	530	2,522	
2-Jun-09	8.67	ND	590	2,434	
4-Mar-09	28.3	ND	530	2,516	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
340-02	9-Nov-15	89.2	<1.18	870	3,200
	20-Aug-15	83.0	<1.18	782	3,210
	11-May-15	83.6	<1.18	802	3,100
	9-Feb-15	91.2	<1.80	809	3,340
	12-Nov-14	90.1	<1.80	807	3,320
	15-Aug-14	84.4	<1.80	772	3,420
	14-May-14	84.6	<1.80	793	3,130
	20-Feb-14	86.8	<1.66	806	3,080
	11-Nov-13	87.0	3.50	807	3,160
	8-Aug-13	80.2	4.90	794	3,180
	9-May-13	74.6	<1.66	744	3,180
	13-Feb-13	81.6	<1.72	805	3,550
	5-Nov-12	73.8	4.90	923	3,220
	6-Aug-12	74.0	<1.72	749	3,380
	25-Apr-12	69.8	6.16	727	2,890
	4-Nov-11	75.0	5.74	755	3,620
	22-Jul-11	84.8	7.98	777	2,970
	27-Jan-11	94.1	2.24	760	3,500
	21-Sep-10	92.2	<10.0	778	3,260
	29-Jun-10	87	<0.10	850	3,180
24-Mar-10	95	ND	930	3,070	
15-Dec-09	82	ND	910	3,072	
1-Sep-09	94	ND	890	3,072	
2-Jun-09	43.2	ND	880	2,954	
4-Mar-09	41.5	ND	885	3,098	
<b>Former D&amp;J Dairy (Dominguez 2)</b>					
42-02	1-Dec-15	7.55	<1.18	510	2,420
	26-Aug-15	6.38	5.60	492	2,540
	18-May-15	6.92	5.60	482	2,360
	26-Feb-15	7.61	6.30	483	2,580
	18-Nov-14	8.21	<1.80	461	2,400
	26-Aug-14	7.62	<1.80	477	2,350
	21-May-14	10.2	2.10	498	2,460
	26-Feb-14	9.28	<1.66	469	2,180
	26-Nov-13	9.62	2.10	490	2,260
	20-Aug-13	14.5	4.90	459	2,360
	14-May-13	12.0	<1.66	432	2,220
	15-Feb-13	17.6	<1.72	457	2,360
	9-Nov-12	8.99	<1.72	412	2,180
	8-Aug-12	7.73	<1.72	400	1,830
	1-May-12	22.5	<1.72	431	2,210
	16-Feb-12	24.5	<2.17	465	2,770
	9-Nov-11	21.2	3.08	449	2,170
	2-Aug-11	20.5	2.38	424	2,360
	25-Apr-11	29.1	<2.17	365	2,140
	28-Jan-11	22.7	6.72	408	2,150
	1-Oct-10	21.0	<10.0	355	2,010
	27-Jun-10	27	<5.0	360	2,220
	6-Mar-10	31.3	<0.3	380	2,145
	16-Jan-10	25.7	0.3	350	2,090
15-Sep-09	24.6	0.9	350	2,075	
3-Jun-09	30.6	0.6	320	2,045	
14-Mar-09	29.6	0.7	370	2,115	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
42-03	1-Dec-15	97.9	<1.18	933	3,380
	26-Aug-15	74.7	<1.18	1,040	3,820
	18-May-15	86.9	2.1	1,010	3,470
	27-Feb-15	68.6	<1.80	1,020	3,630
	18-Nov-14	73.2	16.1	1,040	3,560
	26-Aug-14	78.0	<1.80	891	3,360
	21-May-14	62.6	<1.80	1,100	3,720
	26-Feb-14	62.8	<1.66	1,070	3,160
	26-Nov-13	62.9	2.80	1,090	3,660
	15-Aug-13	67.5	17.5	1,090	3,560
	14-May-13	59.6	<1.66	1,150	3,800
	15-Feb-13	60.3	<1.72	1,140	3,800
	9-Nov-12	56.2	<1.72	1,120	3,800
	8-Aug-12	71.1	<1.72	1,370	3,520
	1-May-12	51.5	<1.72	1,030	3,620
	16-Feb-12	51.3	<2.17	1,130	3,760
	9-Nov-11	58.9	2.80	1,000	3,660
	1-Aug-11	59.2	<2.17	1,030	3,720
	25-Apr-11	58.8	<2.17	1,080	3,620
	28-Jan-11	69.5	3.78	1,160	3,690
	1-Oct-10	63.0	<10.0	1,090	3,640
	27-Jun-10	49	<5.0	1,100	3,780
	6-Mar-10	39.6	<0.3	1,180	3,935
	16-Jan-10	43.3	<0.3	1,200	3,800
15-Sep-09	52.3	0.3	1,130	3,765	
3-Jun-09	48.2	0.3	1,240	3,860	
14-Mar-09	32.2	<0.2	1,240	3,800	
42-06	1-Dec-15	84.5	<1.18	358	2,220
	26-Aug-15	80.7	<1.18	391	2,680
	18-May-15	90.6	2.80	373	2,160
	26-Feb-15	78.0	2.80	323	2,100
	18-Nov-14	94.6	<1.80	302	2,160
	13-Aug-14	83.6	<1.80	302	2,220
	21-May-14	87.9	2.80	395	2,440
	26-Feb-14	59.3	<1.66	417	2,380
	26-Nov-13	76.3	2.10	397	2,270
	20-Aug-13	95.1	4.90	432	2,580
	14-May-13	86.5	<1.66	413	2,390
	15-Feb-13	82.9	<1.72	457	2,430
	9-Nov-12	75.9	<1.72	478	2,570
	8-Aug-12	81.5	1.82	484	2,475
	1-May-12	87.0	1.96	720	2,920
	16-Feb-12	92.4	<2.17	630	3,100
	9-Nov-11	101	<2.17	617	3,000
	2-Aug-11	88.6	3.22	525	2,980
	25-Apr-11	72.2	<2.17	454	2,500
	28-Jan-11	69.8	4.20	421	2,780
	1-Oct-10	113	<10.0	497	2,660
	27-Jun-10	46	<5.0	400	2,550
	6-Mar-10	43.1	<0.3	480	2,510
	16-Jan-10	44.2	0.3	1,150	2,600
14-Sep-09	54.8	0.4	450	2,600	
3-Jun-09	0.02	<0.2	1,240	3,780	
14-Mar-09	49.7	0.2	480	2,540	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
42-07	1-Dec-15	Dry			
	26-Aug-15	Dry			
	18-May-15	Dry			
	26-Feb-15	Dry			
	18-Nov-14	Dry			
	26-Aug-14	Dry			
	22-May-14	Dry			
	26-Feb-14	Dry			
	26-Nov-13	Dry			
	15-Aug-13	Dry			
	14-May-13	Dry			
	15-Feb-13	Dry			
	9-Nov-12	Dry			
	8-Aug-12	Dry			
	1-May-12	Dry			
	16-Feb-12	Dry			
	9-Nov-11	57.9	<2.17	1,090	3,450
	2-Aug-11	Dry			
	25-Apr-11	68.5	<2.17	1,230	4,080
	28-Jan-11	88.3	4.48	1,130	4,180
	1-Oct-10	92.0	<40.0	1,390	4,260
	27-Jun-10	63	<5.0	1,400	4,330
	6-Mar-10	63.1	<0.3	1,490	4,345
16-Jan-10	59.6	<0.3	1,480	4,275	
15-Sep-09	66.6	<0.3	1,290	4,195	
3-Jun-09	57.4	<0.2	1,550	4,225	
14-Mar-09	43.7	<0.2	1,500	4,110	
42-08	1-Dec-15	Dry			
	26-Aug-15	37.4	<1.18	89.6	1640
	18-May-15	Not Sampled - insufficient water to sample			
	26-Feb-15	44.9	<1.80	85.7	1,400
	18-Nov-14	47.3	<1.80	117	1,440
	26-Aug-14	36.1	<1.80	159	1,500
	21-May-14	33.1	<1.80	149	1,470
	26-Feb-14	32.6	<1.66	251	1,790
	26-Nov-13	30.8	2.10	275	1,780
	20-Aug-13	30.3	6.30	292	2,000
	14-May-13	29.9	<1.66	259	1,880
	15-Feb-13	31.8	<1.72	284	1,860
	9-Nov-12	30.4	<1.72	283	1,930
	8-Aug-12	36.4	<1.72	307	1,938
	1-May-12	36.0	<1.72	246	1,700
	16-Feb-12	37.0	<2.17	254	1,850
	9-Nov-11	40.0	<2.17	269	1,770
	2-Aug-11	41.3	2.38	253	2,030
	25-Apr-11	51.4	2.66	201	1,970
	28-Jan-11	46.2	5.46	219	2,020
	1-Oct-10	49.0	<10.0	288	2,160
	27-Jun-10	75	<5.0	300	2,220
	6-Mar-10	76.8	<0.3	365	2,290
16-Jan-10	82.8	<0.3	350	2,315	
15-Sep-09	87.1	0.7	410	2,340	
3-Jun-09	65.8	0.8	380	2,175	
14-Mar-09	43.2	0.4	400	2,220	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
42-09	1-Dec-15	Not Sampled - Destroyed			
	26-Aug-15	57.1	<1.18	712	3,020
	18-May-15	58.0	<1.18	733	3,050
	26-Feb-15	69.8	<1.80	673	2,960
	18-Nov-14	46.4	<1.80	722	3,000
	26-Aug-14	46.5	<1.80	674	3,000
	22-May-14	59.3	<1.80	699	3,060
	26-Feb-14	53.5	<1.66	715	3,030
	26-Nov-13	51.2	2.80	731	3,030
	15-Aug-13	56.1	37.8	725	3,010
	14-May-13	51.6	<1.66	717	3,200
	15-Feb-13	47.0	<1.72	653	2,870
	9-Nov-12	48.4	<1.72	641	3,030
	8-Aug-12	49.5	<1.72	597	2,475
	1-May-12	50.3	<1.72	542	2,820
	16-Feb-12	50.7	<2.17	627	2,920
	9-Nov-11	47.8	<2.17	591	1,810
	1-Aug-11	55.0	<2.17	579	2,750
	25-Apr-11	65.8	<2.17	664	2,820
	28-Jan-11	44.9	<2.17	537	2,940
	28-Sep-10	38.0	<10.0	591	2,760
	27-Jun-10	68	<5.0	610	3,010
	6-Mar-10	NS	NS	NS	NS
	16-Jan-10	52.8	<0.3	690	2,970
15-Sep-09	68.8	0.7	650	3,000	
3-Jun-09	66.5	0.7	690	3,000	
14-Mar-09	59.5	0.4	700	3,050	
42-10	1-Dec-15	0.165	<1.18	439	1,300
	25-Aug-15	<0.194	<1.18	436	1,440
	18-May-15	1.07	<1.18	471	1,360
	27-Feb-15	0.947	<1.80	439	1,520
	19-Nov-14	1.08	11.9	441	1,340
	26-Aug-14	1.08	<1.80	410	1,340
	22-May-14	1.25	<1.80	457	1,420
	26-Feb-14	0.982	<1.66	416	1,400
	26-Nov-13	1.10	2.10	435	1,420
	20-Aug-13	0.991	9.10	423	1,540
	14-May-13	0.976	<1.66	395	1,400
	15-Feb-13	<0.246	<1.72	415	1,380
	9-Nov-12	<0.0290	<1.72	397	1,350
	8-Aug-12	0.186	<1.72	403	1,328
	1-May-12	0.236	<1.72	363	1,260
	16-Feb-12	<0.500	<2.17	419	1,440
	8-Nov-11	<0.500	<2.17	425	1,510
	2-Aug-11	<0.500	<2.17	469	1,540
	25-Apr-11	<0.500	<2.17	453	1,500
	28-Jan-11	2.15	<2.17	345	1,280
	1-Oct-10	0.220	<10.0	360	1,450
	27-Jun-10	<0.50	<1.0	420	1,490
	6-Mar-10	0.23	<0.3	440	1,500
	16-Jan-10	<0.03	<0.3	430	1,435
15-Sep-09	0.16	<0.3	400	1,425	
3-Jun-09	0.21	<0.2	450	1,535	
14-Mar-09	0.02	<0.2	480	1,480	



**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
42-11	1-Dec-15	1.16	<1.18	303	1,160
	25-Aug-15	1.00	<1.18	302	1,160
	18-May-15	1.79	<1.18	308	1,100
	27-Feb-15	1.66	<1.80	300	1,160
	19-Nov-14	1.83	2.10	316	1,170
	27-Aug-14	1.78	6.30	295	1,200
	22-May-14	1.87	<1.80	312	1,120
	26-Feb-14	1.44	<1.66	339	1,280
	26-Nov-13	1.43	2.80	344	1,260
	20-Aug-13	1.50	2.80	334	1,280
	14-May-13	1.78	<1.66	303	1,220
	15-Feb-13	1.64	<1.72	327	1,210
	9-Nov-12	<0.0290	<1.72	315	1,230
	8-Aug-12	1.21	<1.72	308	1,182
	1-May-12	1.24	<1.72	274	1,160
	16-Feb-12	<0.500	<2.17	337	1,240
	8-Nov-11	1.97	<2.17	334	1,480
	2-Aug-11	3.07	<2.17	308	1,160
	25-Apr-11	3.45	<2.17	304	795
	28-Jan-11	0.47	2.38	285	1,300
	1-Oct-10	0.62	<10.0	300	1,250
	27-Jun-10	3.90	<1.0	290	1,080
	6-Mar-10	0.51	<0.3	370	1,300
	16-Jan-10	0.03	<0.3	370	1,325
15-Sep-09	0.41	<0.3	320	1,245	
3-Jun-09	3.00	0.70	300	1,080	
14-Mar-09	0.90	<0.2	310	1,225	
42-12	1-Dec-15	0.917	<1.18	341	1,140
	25-Aug-15	0.774	<1.18	340	1,110
	18-May-15	1.78	<1.18	350	1,120
	27-Feb-15	1.87	<1.80	327	1,200
	19-Nov-14	2.10	<1.80	333	1,220
	26-Aug-14	1.96	48.3	319	1,290
	22-May-14	2.18	<1.80	337	1,160
	26-Feb-14	1.87	<1.66	336	1,180
	26-Nov-13	1.95	2.10	341	1,160
	20-Aug-13	1.77	3.50	337	1,200
	14-May-13	1.73	<1.66	319	1,170
	15-Feb-13	1.72	<1.72	332	1,170
	9-Nov-12	<0.0290	<1.72	315	1,170
	8-Aug-12	1.15	2.66	333	1,134
	1-May-12	0.750	<1.72	282	1,180
	16-Feb-12	<0.500	<2.17	341	1,200
	8-Nov-11	<0.500	<2.17	331	730
	2-Aug-11	<0.100	<2.17	331	1,340
	25-Apr-11	<0.500	<2.17	339	1,280
	28-Jan-11	0.580	<2.17	276	970
	1-Oct-10	4.50	<10.0	312	1,280
	27-Jun-10	0.72	<1.0	320	1,270
	6-Mar-10	0.13	<0.3	350	1,230
	16-Jan-10	0.42	<0.3	340	1,250
15-Sep-09	0.65	<0.3	310	1,215	
3-Jun-09	0.82	<0.2	330	1,280	
14-Mar-09	0.70	<0.2	340	1,240	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
42-13	1-Dec-15	Not Sampled - Water level below pump			
	26-Aug-15	49.3	<1.18	756	3,480
	18-May-15	50.6	<1.18	830	3,340
	26-Feb-15	49.0	<1.80	781	3,420
	18-Nov-14	54.6	<1.80	855	3,360
	27-Aug-14	77.9	2.10	927	3,490
	22-May-14	50.9	<1.80	873	3,560
	26-Feb-14	50.0	<1.66	871	3,340
	26-Nov-13	49.8	3.50	895	3,260
	15-Aug-13	59.9	3.50	891	3,380
	14-May-13	49.7	<1.66	809	3,320
	15-Feb-13	54.3	<1.72	855	3,430
	9-Nov-12	52.2	<1.72	835	3,250
	8-Aug-12	62.3	<1.72	871	3,110
	1-May-12	81.5	<1.72	902	3,550
	16-Feb-12	99.1	<2.17	1,020	3,880
	9-Nov-11	61.5	<2.17	901	3,160
	2-Aug-11	106	<2.17	1,900	3,280
	25-Apr-11	55.9	<2.17	1,000	3,600
	28-Jan-11	52.6	<2.17	868	3,720
	29-Sep-10	44.5	<10.0	833	3,360
27-Jun-10	48	<5.0	1,000	3,810	
6-Mar-10	NS	NS	NS	NS	
16-Jan-10	46.3	<0.3	1,130	3,810	
15-Sep-09	54.8	0.5	1,100	3,940	
3-Jun-09	51.6	<0.2	1,110	3,775	
14-Mar-09	51.0	0.6	1,040	3,735	
<b>Dominguez</b>					
624-01	10-Nov-15	7.06	3.36	703	2,440
	7-Aug-15	14.00	<1.18	1,010	3,110
	19-May-15	16.70	1.40	750	3,070
	12-Feb-15	9.54	2.10	798	2,880
	17-Nov-14	11.2	<1.80	790	2,620
	19-Aug-14	11.8	<1.80	794	2,590
	20-May-14	23.2	4.90	1,050	3,320
	25-Feb-14	18.6	<1.66	950	3,080
	19-Nov-13	23.6	2.10	1,080	3,250
	14-Aug-13	15.4	3.50	970	2,990
	13-May-13	20.8	<1.66	894	2,720
	14-Feb-13	15.6	<1.72	827	2,980
	12-Nov-12	12.2	<1.72	652	2,590
	9-Aug-12	17.4	2.80	1,080	3,550
	30-Apr-12	8.69	36.4	1,400	4,180
	7-Feb-12	10.0	9.52	1,420	3,180
	4-Nov-11	10.8	5.60	1,430	3,460
	3-Aug-11	10.7	<2.17	1,580	3,970
	27-Apr-11	<0.500	30.8	1,330	4,040
	25-Jan-11	14.0	<2.17	1,280	3,760
	21-Sep-10	8.20	<10.0	1,260	3,780
27-Jun-10	11	<2.0	1,600	4,520	
6-Mar-10	17.2	<0.3	910	2,610	
16-Jan-10	5.5	0.4	840	2,540	
15-Sep-09	6.5	0.6	760	2,455	
3-Jun-09	16.1	0.7	810	2,790	
14-Mar-09	21.9	0.3	1,190	3,305	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
624-02	10-Nov-15	17.2	<1.18	1,050	3,290
	7-Aug-15	15.6	<1.18	801	2,710
	19-May-15	17.3	<1.18	859	3,020
	12-Feb-15	17.0	<1.80	810	3,320
	18-Nov-14	15.6	<1.80	912	3,100
	19-Aug-14	13.9	<1.80	995	3,380
	20-May-14	12.7	2.10	1,010	3,350
	25-Feb-14	12.4	<1.66	965	3,320
	19-Nov-13	12.6	9.10	969	3,200
	14-Aug-13	11.4	4.20	1,030	3,350
	13-May-13	9.98	<1.66	950	3,360
	14-Feb-13	9.30	2.10	1,110	3,580
	12-Nov-12	12.7	<1.72	1,170	3,830
	9-Aug-12	9.69	<1.72	1,300	4,010
	30-Apr-12	16.4	4.06	1,160	3,650
	7-Feb-12	14.8	<2.17	1,200	3,720
	4-Nov-11	10.7	3.5	1,300	4,060
	3-Aug-11	12.2	<2.17	1,290	3,600
	27-Apr-11	11.6	7.70	1,340	4,170
	25-Jan-11	19.1	<2.17	1,290	3,700
	20-Sep-10	19.6	<10.0	1,300	4,130
	27-Jun-10	14	<2.0	1,400	4,230
	6-Mar-10	23.7	<0.3	1,400	3,880
	16-Jan-10	22.6	0.4	1,300	3,630
	15-Sep-09	19.9	0.8	1,260	3,625
	3-Jun-09	29.4	0.4	1,340	3,905
14-Mar-09	26.5	0.4	1,240	3,655	
624-04	10-Nov-15				Dry
	7-Aug-15				Dry
	19-May-15				Dry
	12-Feb-15				Dry
	18-Nov-14				Dry
	19-Aug-14				Dry
	20-May-14				Dry
	25-Feb-14				Dry
	19-Nov-13				Dry
	14-Aug-13				Dry
	13-May-13				Dry
	14-Feb-13				Dry
	12-Nov-12				Dry
	9-Aug-12				Dry
	30-Apr-12				Dry
	7-Feb-12				Dry
	4-Nov-11				Dry
	3-Aug-11	1.84	<2.17	478	2,760
	27-Apr-11	2.60	5.74	566	2,830
	26-Jan-11	3.23	2.52	747	3,480
	21-Sep-10	6.0	<10.0	758	3,750
	27-Jun-10	3.7	1.4	810	3,950
	6-Mar-10	4.3	0.4	890	4,050
	16-Jan-10	4.2	0.7	800	3,845
	15-Sep-09	9.3	0.8	840	3,750
	3-Jun-09	16.0	0.6	520	2,900
14-Mar-09	18.1	0.6	520	2,820	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
624-05	10-Nov-15				Dry
	7-Aug-15				Dry
	19-May-15				Dry
	12-Feb-15				Dry
	18-Nov-14				Dry
	19-Aug-14				Dry
	20-May-14				Dry
	25-Feb-14				Dry
	19-Nov-13				Dry
	14-Aug-13				Dry
	13-May-13				Dry
	14-Feb-13	6.72	<1.72	508	2,040
	12-Nov-12	4.82	<1.72	440	2,200
	9-Aug-12	4.11	1.82	472	2,050
	30-Apr-12	3.70	2.10	346	1,710
	7-Feb-12	3.38	<2.17	411	2,040
	4-Nov-11	2.58	4.20	385	1,980
	3-Aug-11	3.34	<2.17	1,080	1,940
	27-Apr-11	3.34	4.76	424	1,840
	26-Jan-11	3.62	<2.17	392	1,740
	21-Sep-10	11.9	<10.0	449	2,300
	27-Jun-10	27	< 5.0	480	2,450
	6-Mar-10	30.5	0.4	520	2,595
	16-Jan-10	21.4	0.9	520	2,605
15-Sep-09	34.8	1.0	530	2,620	
3-Jun-09	33.8	1.3	500	2,650	
14-Mar-09	23.9	1.2	490	2,565	
624-06	10-Nov-15				Dry
	7-Aug-15				Dry
	19-May-15				Dry
	12-Feb-15				Dry
	18-Nov-14				Dry
	19-Aug-14				Dry
	20-May-14				Dry
	25-Feb-14				Dry
	19-Nov-13				Dry
	14-Aug-13				Dry
	13-May-13				Dry
	14-Feb-13	31.5	<1.72	1,150	3,600
	12-Nov-12	28.3	<1.72	1,060	3,840
	9-Aug-12	30.8	7.56	1,080	3,420
	30-Apr-12	31.1	8.40	1,010	3,300
	7-Feb-12	30.9	6.30	1,080	3,020
	4-Nov-11	29.5	8.68	1,040	2,860
	3-Aug-11	29.8	<2.17	1,080	3,240
	27-Apr-11	29.0	3.50	1,050	3,180
	26-Jan-11	29.1	2.94	1,080	2,760
	21-Sep-10	26.7	<10.0	1,060	3,270
	27-Jun-10	30	<5.0	1,100	3,570
	6-Mar-10	28.3	<0.3	1,250	3,550
	16-Jan-10	52.2	0.6	2,100	3,545
15-Sep-09	27.8	0.7	1,150	3,425	
3-Jun-09	38.3	0.8	70	4,300	
14-Mar-09	36.5	0.3	1,300	3,800	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
624-07	10-Nov-15	Not Sampled - insufficient water to sample			
	7-Aug-15	Not Sampled - insufficient water to sample			
	19-May-15	Not Sampled - insufficient water to sample			
	12-Feb-15	Not Sampled - insufficient water to sample			
	17-Nov-14	Dry			
	19-Aug-14	Not Sampled - insufficient water to sample			
	20-May-14	Dry			
	26-Feb-14	Not Sampled - insufficient water to sample			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	14-Feb-13	Dry			
	12-Nov-12	Dry			
	9-Aug-12	Dry			
	30-Apr-12	Dry			
	7-Feb-12	Not Sampled - insufficient water to sample			
	4-Nov-11	Not Sampled - insufficient water to sample			
	3-Aug-11	8.01	<2.17	473	1,600
	27-Apr-11	19.4	3.50	539	2,290
	26-Jan-11	14.7	5.60	516	1,900
	21-Sep-10	20.5	<10.0	531	2,200
	27-Jun-10	61	<5.0	880	3,550
	6-Mar-10	43.4	<0.3	1,080	3,825
16-Jan-10	49.5	0.5	840	3,275	
15-Sep-09	50.1	0.4	960	3,280	
3-Jun-09	75.2	0.8	1,525	4,980	
14-Mar-09	54.3	0.3	1,160	3,580	
624-08	10-Nov-15	Dry			
	7-Aug-15	Dry			
	19-May-15	Dry			
	12-Feb-15	Dry			
	18-Nov-14	Dry			
	19-Aug-14	Dry			
	20-May-14	Dry			
	26-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	14-Feb-13	Dry			
	9-Aug-12	Dry			
	30-Apr-12	Dry			
	7-Feb-12	Dry			
	4-Nov-11	Dry			
	3-Aug-11	Dry			
	27-Apr-11	2.45	3.50	200	1,400
	26-Jan-11	1.7	8.12	222	2,940
	21-Sep-10	<2.50	<10.0	197	1,200
	27-Jun-10	2.0	<1.0	220	1,310
	6-Mar-10	0.65	<0.3	280	1,330
	16-Jan-10	0.89	<0.3	240	1,215
15-Sep-09	2.3	0.3	200	1,205	
3-Jun-09	1.7	0.7	210	1,280	
14-Mar-09	1.8	<0.2	205	1,165	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
<b>Gonzalez</b>					
177-01	11-Nov-15	30.3	<1.18	1,370	4,260
	21-Aug-15	12.0	1.40	1,410	4,220
	13-May-15	30.4	<1.18	1,370	4,160
	11-Feb-15	33.5	<1.80	1,190	4,160
	13-Nov-14	34.6	<1.80	1,330	3,780
	18-Aug-14	30.5	2.80	1,100	3,780
	16-May-14	33.8	<1.80	1,380	3,840
	21-Feb-14	33.7	<1.66	1,310	3,870
	18-Nov-13	33.2	2.80	1,330	3,740
	13-Aug-13	32.2	4.20	1,370	3,850
	15-May-13	31.6	<1.66	1,300	3,940
	19-Feb-13	28.4	<1.72	1,310	3,930
	13-Nov-12	27.7	<1.72	1,190	3,780
	13-Aug-12	27.3	2.52	1,160	3,790
	26-Apr-12	28.5	<1.72	1,460	3,500
	6-Feb-12	28.1	<2.17	1,180	3,650
	3-Nov-11	27.4	2.66	1,170	3,790
	2-Aug-11	26.0	2.24	1,200	4,000
	4-May-11	26.6	<2.17	1,160	4,020
	25-Jan-11	23.3	4.06	1,160	3,540
	20-Sep-10	17.6	12.7	1,120	3,480
	29-Jun-10	34	<1.0	1,200	3,660
28-Apr-10	31	<5.0	1,200	3,680	
20-Jan-10	32	<5.0	1,200	3,640	
21-Oct-09	35	<5.0	1,100	3,700	
7-Jul-09	35	<5.0	1,400	3,700	
6-May-09	34	<5.0	1,300	3,700	
22-Jan-09	33	<5.0	1,300	3,700	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
177-02	11-Nov-15	20.3	<1.18	824	2,800
	21-Aug-15	18.2	<1.18	797	2,840
	13-May-15	17.3	1.40	923	2,980
	12-Feb-15	17.5	<1.80	835	3,160
	14-Nov-14	16.3	<1.80	931	2,930
	18-Aug-14	17.1	<1.80	864	2,810
	16-May-14	43.0	<1.80	803	2,980
	21-Feb-14	67.9	<1.66	725	3,180
	18-Nov-13	111	2.80	682	3,150
	13-Aug-13	30.7	4.20	794	3,020
	15-May-13	27.6	<1.66	910	3,000
	19-Feb-13	29.3	<1.72	902	3,100
	13-Nov-12	35.8	<1.72	870	3,320
	13-Aug-12	47.4	7.70	899	3,650
	26-Apr-12	36.0	<1.72	881	2,960
	6-Feb-12	37.0	<2.17	958	3,320
	3-Nov-11	32.7	<2.17	971	3,450
	3-Aug-11	34.4	2.80	997	3,340
	4-May-11	38.1	2.52	1,050	3,580
	25-Jan-11	31.6	3.36	1,050	3,640
	20-Sep-10	78.0	<10.0	964	3,630
	29-Jun-10	58	<1.0	1,000	3,830
	28-Apr-10	60	<5.0	1,100	3,860
	20-Jan-10	59	<5.0	1,200	4,020
21-Oct-09	50	<5.0	1,200	4,000	
7-Jul-09	56	<5.0	1,300	4,000	
6-May-09	52	<5.0	1,200	4,000	
22-Jan-09	72	<5.0	1,300	4,000	
177-03A	11-Nov-15	5.67	<1.18	821	2,760
	21-Aug-15	6.35	<1.18	745	2,600
	14-May-15	9.94	<1.18	871	2,900
	11-Feb-15	17.7	<1.80	1,020	3,880
	13-Nov-14	0.993	<1.80	486	1,780
	19-Aug-14	10.9	<1.80	859	2,720
	19-May-14	11.4	<1.80	950	3,220
	24-Feb-14	15.6	2.10	1,160	3,900
	18-Nov-13	14.3	2.10	1,150	3,490
	13-Aug-13	17.1	2.80	1,230	4,120
	15-May-13	16.0	<1.66	1,150	3,530
	18-Feb-13	15.5	<1.72	1,290	3,900
	13-Nov-12	12.2	<1.72	1,150	3,900
	13-Aug-12	7.86	<1.72	835	2,810
	26-Apr-12	1.16	<1.72	378	1,430
	6-Feb-12	2.00	<2.17	452	1,580
4-Nov-11	<0.500	3.50	436	1,850	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
177-04	11-Nov-15	19.3	7.28	1,360	4,080
	21-Aug-15	7.50	<1.18	1,420	4,040
	14-May-15	19.4	<1.18	1,330	3,910
	12-Feb-15	18.7	<1.80	1,110	3,730
	13-Nov-14	22.5	<1.80	1,190	3,680
	19-Aug-14	18.2	<1.80	1,150	3,830
	19-May-14	17.5	<1.80	1,320	3,970
	24-Feb-14	17.6	<1.66	1,290	4,020
	18-Nov-13	23.0	2.80	1,260	3,850
	13-Aug-13	19.1	2.10	1,270	3,530
	15-May-13	19.4	<1.66	1,110	3,600
	18-Feb-13	20.5	<1.72	1,120	3,450
	13-Nov-12	22.3	<1.72	1,070	3,630
	13-Aug-12	19.7	<1.72	1,000	3,720
	26-Apr-12	21.7	<1.72	1,050	3,480
	2-Feb-12	22.5	<2.17	1,100	3,650
	3-Nov-11	27.5	<2.17	1,100	3,500
	2-Aug-11	21.6	<2.17	1,080	3,670
	4-May-11	21.2	3.64	1,100	3,740
	25-Jan-11	17.5	2.38	1,150	3,760
	20-Sep-10	4.83	<10.0	1,180	4,030
	29-Jun-10	26	<1.0	1,200	4,010
	28-Apr-10	26	<5.0	1,300	4,090
	20-Jan-10	27	<5.0	1,400	4,090
21-Oct-09	29	<5.0	1,400	4,100	
7-Jul-09	32	<5.0	1,400	3,990	
6-May-09	32	<5.0	1,300	3,800	
22-Jan-09	26	<5.0	1,200	1,700	



**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
177-05	11-Nov-15	30.8	7.28	1,230	3,840
	21-Aug-15	34.0	<1.18	1,300	3,920
	13-May-15	46.5	<1.18	1,110	3,440
	11-Feb-15	36.8	<1.80	1,250	4,060
	13-Nov-14	56.1	<1.80	1,110	3,260
	19-Aug-14	18.1	<1.80	1,680	4,800
	19-May-14	35.7	<1.80	1,400	4,000
	24-Feb-14	26.6	<1.66	1,600	4,460
	18-Nov-13	33.5	2.10	1,580	4,360
	13-Aug-13	30.5	2.80	1,640	4,420
	15-May-13	29.8	<1.66	1,510	4,160
	18-Feb-13	32.6	<1.72	1,430	3,900
	13-Nov-12	37.1	<1.72	1,240	4,050
	13-Aug-12	37.6	2.66	1,390	4,360
	26-Apr-12	47.1	<1.72	1,090	3,440
	2-Feb-12	42.2	<2.17	1,170	3,590
	3-Nov-11	30.6	<2.17	1,190	3,060
	2-Aug-11	36.3	<2.17	1,120	3,420
	4-May-11	40.6	5.60	1,090	3,500
	25-Jan-11	39.2	2.10	1,060	3,240
	20-Sep-10	7.39	<10.0	1,050	3,500
	29-Jun-10	39	<1.0	1,100	3,470
	28-Apr-10	40	<5.0	1,200	3,460
20-Jan-10	43	<5.0	1,100	3,330	
21-Oct-09	50	<5.0	1,100	3,300	
7-Jul-09	38	<5.0	1,200	3,270	
6-May-09	40	<5.0	1,100	3,100	
22-Jan-09	40	<5.0	1,100	3,000	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
177-06	11-Nov-15	Dry			
	21-Aug-15	Dry			
	13-May-15	Dry			
	11-Feb-15	Dry			
	13-Nov-14	Dry			
	13-Aug-14	Dry			
	13-Aug-14	Dry			
	19-May-14	Dry			
	24-Feb-14	Dry			
	21-Nov-13	24.1	14.0	1,080	3,110
	18-Nov-13	Insufficient Water to Sample			
	13-Aug-13	Insufficient Water to Sample			
	15-May-13	Insufficient Water to Sample			
	18-Feb-13	17.4	<1.72	963	3,000
	13-Nov-12	16.1	<1.72	918	3,020
	26-Apr-12	Dry			
	2-Feb-12	16.1	4.76	934	2,940
	7-Dec-11	15.1	<2.17	892	2,760
	2-Aug-11	16.1	<2.17	910	3,020
	4-May-11	17.2	4.90	955	2,930
	25-Jan-11	19.2	<2.05	923	2,740
	20-Sep-10	<2.50	<10.0	890	2,880
	29-Jun-10	23	<1.0	940	2,960
	28-Apr-10	21	<5.0	980	2,960
	20-Jan-10	26	<5.0	1,000	2,910
	21-Oct-09	25	<5.0	980	2,900
	7-Jul-09	25	<5.0	1,000	2,850
6-May-09	25	<5.0	1,000	2,800	
22-Jan-09	23	<5.0	960	2,800	
177-07R	11-Nov-15	37.1	12.9	1,110	3,480
	21-Aug-15	35.0	<1.18	1,170	3,600
	14-May-15	45.1	<1.18	1,130	3,580
	12-Feb-15	46.9	<1.80	1,070	3,510
	14-Nov-14	45.3	<1.80	1,070	3,250
	19-Aug-14	28.2	<1.80	980	3,120
	19-May-14	22.7	2.10	895	2,910
	24-Feb-14	22.7	<1.66	903	3,080
	18-Nov-13	21.5	2.10	911	3,060
	13-Aug-13	30.3	2.80	1,010	3,540
	15-May-13	29.2	<1.66	1,000	3,420
	19-Feb-13	31.0	<1.72	976	3,360
	13-Nov-12	31.0	<1.72	1,040	3,570
	13-Aug-12	26.5	<1.72	1,040	3,670
	26-Apr-12	22.8	<1.72	1,010	2,690
	6-Feb-12	28.5	5.60	1,060	2,730
	4-Nov-11	29.3	2.66	1,050	2,830
3-Aug-11	25.2	2.80	1,050	3,250	
7-Apr-11	21.4	2.52	1,070	8,660	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	
<b>Central Area</b>						
<b>Buena Vista Dairy II</b>						
74-01	12-Nov-15	15.9	12.3	725	2,630	
	24-Aug-15	67.4	<1.18	902	3,360	
	19-May-15	59.2	2.80	784	3,060	
	13-Feb-15	59.9	<1.80	812	3,160	
	19-Nov-14	23.9	<1.80	891	2,930	
	20-Aug-14	76.2	<1.80	866	3,480	
	20-May-14	62.6	2.10	816	3,080	
	3-Mar-14	57.2	2.10	855	3,200	
	19-Nov-13	63.6	4.20	898	3,210	
	21-Aug-13	63.9	2.80	829	3,180	
	16-May-13	72.3	<1.66	816	3,090	
	19-Feb-13	59.1	<1.72	840	3,140	
	14-Nov-12	94.2	8.40	963	3,510	
	10-Aug-12	78.6	3.50	922	2,150	
	3-May-12	65.3	<1.72	778	3,265	
	8-Feb-12	Not Sampled				
	3-Nov-11	64.6	<2.17	811	2,830	
	1-Aug-11	73.2	<2.17	770	3,040	
	26-Apr-11	67.8	<2.17	730	3,300	
	25-Jan-11	41.7	13.0	738	2,960	
	17-Sep-10	36.7	<10.0	695	2,760	
	29-Jun-10	74	<1.0	850	3,350	
	24-Mar-10	70	ND	840	3,070	
14-Dec-09	84	0.14	750	2,480		
1-Sep-09	92	ND	730	2,914		
2-Jun-09	33.2	ND	650	2,632		
3-Mar-09	43.8	ND	735	2,666		

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
74-02	11-Nov-15	22.5	14.0	562	2,120
	24-Aug-15	26.1	<1.18	566	2,270
	19-May-15	20.7	1.40	527	2,180
	13-Feb-15	23.5	<1.80	519	2,300
	19-Nov-14	28.6	<1.80	572	2,230
	20-Aug-14	29.8	<1.80	567	2,360
	20-May-14	25.7	2.10	579	2,230
	3-Mar-14	24.7	<1.66	588	2,260
	20-Nov-13	28.8	2.10	625	2,340
	21-Aug-13	20.0	2.80	564	2,220
	16-May-13	15.5	<1.66	549	2,120
	19-Feb-13	13.9	<1.72	525	1,900
	14-Nov-12	12.7	2.10	484	2,150
	10-Aug-12	14.0	2.10	532	2,060
	3-May-12	16.4	<1.72	495	1,980
	8-Feb-12	15.2	5.46	519	2,150
	3-Nov-11	26.3	<2.17	558	2,510
	29-Jul-11	52.8	2.24	630	2,710
	26-Apr-11	93.2	<2.17	831	3,610
	25-Jan-11	65.7	2.80	824	3,670
	17-Sep-10	30.6	<10.0	665	2,400
	29-Jun-10	45	<1.0	730	2,780
	24-Mar-10	20.6	ND	810	2,612
	14-Dec-09	14.6	0.14	770	2,452
1-Sep-09	17.3	0.7	760	2,474	
2-Jun-09	17.6	0.84	820	4,866	
3-Mar-09	45.1	ND	1,265	4,556	
74-03	12-Nov-15	<0.194	3.36	1,000	3,480
	24-Aug-15	<0.194	<1.18	1,190	3,960
	19-May-15	1.02	1.40	1,310	4,300
	13-Feb-15	1.07	<1.80	1,260	4,330
	19-Nov-14	2.06	<1.80	1,380	4,390
	20-Aug-14	2.77	<1.80	1,240	4,380
	20-May-14	3.51	2.10	1,230	4,000
	3-Mar-14	5.75	<1.66	1,220	4,140
	20-Nov-13	10.7	2.80	1,200	4,070
	21-Aug-13	5.62	3.50	1,230	4,100
	16-May-13	7.88	<1.66	1,160	3,920
	19-Feb-13	2.81	<1.72	1,250	4,480
	14-Nov-12	1.06	<1.72	1,300	4,440
	10-Aug-12	2.25	<1.72	1,450	4,900
	3-May-12	9.92	<1.72	1,330	3,920
	8-Feb-12	11.0	<2.17	1,420	4,170
	3-Nov-11	27.6	<2.17	1,420	4,730
	1-Aug-11	15.0	<2.17	1,450	4,870
	26-Apr-11	4.17	<2.17	1,480	4,690
	25-Jan-11	2.02	<2.17	1,460	4,960
	20-Sep-10	21.3	<10.0	1,490	4,840
	29-Jun-10	1.5	<1.0	1,400	4,630
	24-Mar-10	6.1	ND	1,530	4,400
	14-Dec-09	14.1	ND	1,550	4,560
1-Sep-09	18.9	ND	1,630	4,734	
2-Jun-09	2.9	ND	1,590	1,782	
3-Mar-09	2.65	ND	1,510	4,664	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
74-04	12-Nov-15	13.5	2.24	584	2,040
	24-Aug-15	21.7	<1.18	576	2,120
	20-May-15	22.4	<1.18	524	1,900
	16-Feb-15	13.4	2.10	491	1,520
	20-Nov-14	14.7	<1.80	538	2,140
	21-Aug-14	16.3	<1.80	556	2,060
	21-May-14	20.1	<1.80	537	1,880
	3-Mar-14	18.1	<1.66	565	2,080
	19-Nov-13	17.3	2.10	570	1,910
	22-Aug-13	16.4	3.50	560	2,160
	16-May-13	17.6	<1.66	502	1,890
	20-Feb-13	18.5	<1.72	499	1,960
	14-Nov-12	19.3	<1.72	499	2,140
	10-Aug-12	18.8	<1.72	477	1,920
	3-May-12	33.6	<1.72	436	1,800
	8-Feb-12	31.6	<2.17	473	2,020
	3-Nov-11	13.4	<2.17	439	1,080
	29-Jul-11	15.3	<2.17	438	1,580
	26-Apr-11	12.8	<2.17	451	1,820
	25-Jan-11	6.50	<2.17	434	1,810
	20-Sep-10	10.6	<10.0	441	1,640
	29-Jun-10	15	<1.0	500	1,840
	24-Mar-10	11.4	0.28	570	1,792
	14-Dec-09	11.5	ND	560	1,738
1-Sep-09	19.3	ND	550	1,792	
2-Jun-09	7.2	ND	570	2,024	
3-Mar-09	20.3	ND	530	1,884	
74-05	12-Nov-15	15.4	<1.18	561	2,020
	24-Aug-15	22.7	<1.18	505	2,040
	20-May-15	20.0	<1.18	495	1,960
	16-Feb-15	16.9	<1.80	504	1,840
	20-Nov-14	17.3	<1.80	493	1,890
	21-Aug-14	18.8	<1.8	464	1,880
	21-May-14	19.8	<1.80	452	1,860
	25-Feb-14	18.3	<1.66	506	1,960
	19-Nov-13	18.4	<1.66	493	1,840
	22-Aug-13	18.8	4.2	497	1,980
	16-May-13	17.5	<1.66	469	1,860
	20-Feb-13	17.8	<1.72	470	1,870
	14-Nov-12	17.0	<1.72	219	1,900
	10-Aug-12	18.0	<1.72	463	1,800
	3-May-12	18.0	<1.72	421	1,900
	8-Feb-12	17.4	<2.17	442	1,960
	3-Nov-11	17.9	<2.17	442	960
	29-Jul-11	23.3	<2.17	449	2,000
	26-Apr-11	21.5	<2.17	446	1,900
	25-Jan-11	16.5	<2.17	446	1,940
	17-Sep-10	17.6	<10.0	439	1,880
	29-Jun-10	32	<1.0	520	2,070
	24-Mar-10	23.2	ND	620	1,960
	14-Dec-09	15.9	ND	600	1,924
1-Sep-09	25.2	ND	540	1,964	
2-Jun-09	10.8	ND	560	2,068	
3-Mar-09	33.2	ND	535	2,038	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
<b>River Valley Dairy</b>					
167-01	13-Aug-14	Not Sampled			
	23-May-14	Not Sampled			
	28-Feb-14	Not Sampled			
	10-Dec-13	Not Sampled			
	27-Aug-13	<0.164	10.5	290	1,260
	17-May-13	Not Sampled			
	20-Feb-13	Not Sampled			
	15-Nov-12	Not Sampled			
	14-Aug-12	Not Sampled			
	2-May-12	Not Sampled			
	30-Jan-12	Not Sampled			
	2-Nov-11	Not Sampled			
	25-Jul-11	Not Sampled			
	28-Apr-11	<0.500	3.92	720	2,960
	20-Jan-11	Not Sampled			
	27-Sep-10	1.55	9.94	731	2,540
	28-Jun-10	Not Sampled			
	5-Mar-10				
15-Jan-10					
14-Sep-09					
2-Jun-09					
15-Mar-09					
167-01A	16-Nov-15	<0.194	<1.18	669	2,920
	24-Aug-15	0.216	<1.18	698	2,980
	20-May-15	1.18	<1.18	693	3,020
	16-Feb-15	1.18	<1.80	669	3,070
	20-Nov-14	1.65	19.6	539	3,260
	4-Sep-14	2.52	<1.80	652	3,070
	23-May-14	1.59	2.80	666	2,860
	28-Feb-14	2.03	<1.66	656	2,820
	10-Dec-13	2.35	2.80	643	2,720
	26-Aug-13	4.84	10.5	907	3,610
	17-May-13	4.83	<1.66	794	3,420
	20-Feb-13	1.10	<1.72	845	3,360
	15-Nov-12	4.02	<1.72	778	3,440
	14-Aug-12	1.78	4.20	888	3,260
	2-May-12	2.55	1.82	781	3,180
	30-Jan-12	2.54	3.50	755	2,940
	2-Nov-11	11.2	4.62	1,080	3,620
	25-Jul-11	2.13	3.92	943	3,330
	28-Apr-11	4.03	<2.17	1,030	3,710
	20-Jan-11	1.26	2.1	968	5,100
	22-Sep-10	1.40	3.36	1,010	3,470
	28-Jun-10	6.07	1.1	1,050	3,710
5-Mar-10	9.3	0.8	1,040	3,605	
15-Jan-10	5.3	0.5	1,090	3,590	
14-Sep-09	13.4	0.6	1,040	3,530	
2-Jun-09	13.7	0.7	980	3,505	
15-Mar-09	22.2	0.2	740	3,130	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
167-02	16-Nov-15	Dry			
	24-Aug-15	Dry			
	20-May-15	Dry			
	16-Feb-15	0.878	<1.80	435	1,360
	20-Nov-14	Dry			
	4-Sep-14	0.928	<1.80	455	1,580
	18-Jun-14	Dry			
	28-Feb-14	Dry			
	10-Dec-13	Dry			
	23-Aug-13	Dry			
	17-May-13	Not Sampled			
	20-Feb-13	Not Sampled			
	15-Nov-12	Not Sampled			
	14-Aug-12	Not Sampled			
	30-Jan-12	Not Sampled			
	2-Nov-11	<0.500	3.64	432	650
	25-Jul-11	Dry			
	28-Apr-11	<0.500	2.94	500	1,910
	20-Jan-11	0.716	<2.05	546	1,840
	22-Sep-10	<0.846	<10.0	610	2,100
	28-Jun-10	Not Sampled			
	5-Mar-10				
	15-Jan-10				
14-Sep-09					
2-Jun-09					
28-Apr-08	7.0	0.3	780	2,580	
167-03	16-Nov-15	12.7	1.68	497	2,000
	25-Aug-15	13.3	<1.18	496	2,020
	20-May-15	12.6	<1.18	478	1,940
	18-Feb-15	10.3	<1.80	429	1,940
	24-Nov-14	16.2	<1.80	529	2,080
	4-Sep-14	17.1	<1.80	534	2,220
	23-May-14	16.6	2.80	440	2,200
	28-Feb-14	15.4	<1.66	516	2,140
	10-Dec-13	17.6	<1.66	578	2,310
	26-Aug-13	19.0	2.80	587	2,440
	20-May-13	16.7	<1.66	543	2,140
	21-Feb-13	13.0	<1.72	500	1,950
	15-Nov-12	15.0	<1.72	503	2,150
	14-Aug-12	16.6	<1.72	500	2,350
	2-May-12	17.5	<1.72	499	2,220
	27-Jan-12	21.0	<2.17	572	2,250
	2-Nov-11	22.0	<2.17	564	2,150
	25-Jul-11	18.5	6.16	543	2,250
	28-Apr-11	17.1	<2.17	508	2,210
	20-Jan-11	13.2	2.24	467	1,880
	22-Sep-10	9.19	<10.0	472	2,120
	28-Jun-10	20.4	<5.0	567	2,310
	5-Mar-10	18.4	<0.3	610	2,265
15-Jan-10	13.7	0.6	620	2,015	
14-Sep-09	23.1	0.4	590	2,240	
2-Jun-09	25.0	0.5	680	2,515	
15-Mar-09	30.9	0.2	760	2,615	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	
167-04	16-Nov-15	27.2	1.68	952	3,410	
	25-Aug-15	27.0	<1.18	1,040	3,860	
	21-May-15	25.4	<1.18	1,050	3,740	
	18-Feb-15	27.7	<1.80	823	3,450	
	24-Nov-14	29.0	<1.80	908	3,520	
	4-Sep-14	25.1	<1.80	1,040	4,210	
	22-May-14	26.5	18.2	1,010	3,600	
	3-Mar-14	25.1	2.10	1,180	4,080	
	10-Dec-13	23.8	2.10	1,190	4,070	
	26-Aug-13	25.5	6.30	1,090	3,900	
	17-May-13	4.40	<1.66	796	4,170	
	20-Feb-13	21.9	<1.72	1,320	4,660	
	15-Nov-12	7.77	<1.72	1,150	4,380	
	14-Aug-12	23.2	2.10	1,110	4,540	
	2-May-12	18.6	13.6	1,050	4,020	
	27-Jan-12	15.6	3.50	1,500	4,840	
	2-Nov-11	Not Sampled - insufficient water to sample				
	26-Jul-11	19.3	4.62	1,270	4,560	
	28-Apr-11	7.95	73.1	1,610	4,960	
	20-Jan-11	Not Sampled				
	28-Jun-10					
	5-Mar-10					
	15-Jan-10					
	14-Sep-09	6.7	0.4	1,630	5,240	
	2-Jun-09	8.5	0.4	1,525	5,045	
	15-Mar-09	16.4	0.2	1,570	5,210	
	167-05	13-Nov-15	4.28	4.48	763	3,140
25-Aug-15		3.40	2.10	756	3,100	
21-May-15		6.62	1.40	688	2,880	
19-Feb-15		4.97	<1.80	671	3,080	
20-Nov-14		2.62	<1.80	747	3,360	
3-Sep-14		4.16	<1.80	709	3,240	
23-May-14		3.62	3.50	764	3,010	
3-Mar-14		2.25	<1.66	818	3,180	
10-Dec-13		1.58	3.50	886	3,290	
26-Aug-13		4.54	3.50	767	3,400	
17-May-13		23.3	<1.66	1,120	3,140	
21-Feb-13		3.73	<1.72	842	3,360	
19-Nov-12		2.31	<1.72	805	3,480	
14-Aug-12		1.48	<1.72	1,630	3,220	
2-May-12		3.50	2.24	777	3,180	
30-Jan-12		4.40	<2.17	808	3,140	
2-Nov-11		3.89	3.64	782	2,560	
26-Jul-11		4.41	3.22	792	3,070	
28-Apr-11		12.9	2.80	976	3,630	
20-Jan-11		3.53	2.52	748	2,980	
23-Sep-10		2.70	<10.0	758	2,820	
28-Jun-10		4.07	<1.0	789	2,930	
5-Mar-10		2.9	<0.3	960	2,945	
15-Jan-10		1.8	<0.3	380	715	
14-Sep-09		1.9	0.4	890	2,970	
2-Jun-09		1.8	0.9	850	3,005	
15-Mar-09		4.6	0.2	910	3,230	



**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
167-06	13-Nov-15	19.5	<1.18	650	2,550
	24-Aug-15	20.2	<1.18	642	2,620
	20-May-15	19.7	<1.18	649	2,490
	16-Feb-15	19.1	<1.80	591	2,580
	20-Nov-14	21.1	<1.80	702	2,900
	4-Sep-14	22.8	4.20	689	2,820
	22-May-14	22.8	4.20	726	2,660
	28-Feb-14	22.1	<1.66	707	2,620
	10-Dec-13	20.8	6.30	744	2,740
	26-Aug-13	29.0	2.10	757	2,740
	20-May-13	23.9	<1.66	704	2,620
	20-Feb-13	22.8	<1.72	725	2,660
	19-Nov-12	23.7	<1.72	718	2,980
	14-Aug-12	25.1	<1.72	677	2,910
	2-May-12	27.2	<1.72	688	2,480
	30-Jan-12	29.1	<2.17	754	2,880
	2-Nov-11	35.7	<2.17	716	3,390
	25-Jul-11	35.0	5.32	702	2,640
	28-Apr-11	35.4	<2.17	676	2,790
	20-Jan-11	29.6	2.38	634	2,560
	22-Sep-10	19.8	<10.0	655	2,630
	28-Jun-10	34.8	2.35	687	2,700
	5-Mar-10	30.9	<0.3	730	2,730
	15-Jan-10	26.2	0.4	750	2,755
14-Sep-09	40.4	<0.3	700	2,680	
2-Jun-09	31.5	0.4	790	2,715	
15-Mar-09	36.2	0.7	730	2,715	
167-07	13-Nov-15	<0.0387	<1.18	124	1,350
	24-Aug-15	<0.194	<1.18	542	4,990
	20-May-15	<0.0470	<1.18	206	1,540
	19-Feb-15	<0.0137	<1.80	196	1,600
	20-Nov-14	<0.126	<1.80	258	2,300
	4-Sep-14	<0.126	<1.80	609	5,680
	23-May-14	<0.187	<1.80	209	1,490
	28-Feb-14	<0.213	2.10	229	1,540
	10-Dec-13	0.960	6.30	233	1,770
	26-Aug-13	2.00	4.20	681	4,770
	17-May-13	<0.0420	<1.66	319	1,840
	20-Feb-13	<0.246	<1.72	446	3,640
	15-Nov-12	<0.0595	<1.72	498	3,280
	14-Aug-12	<0.114	4.06	1,160	6,090
	2-May-12	0.0285	<1.72	367	1,890
	30-Jan-12	<0.500	<2.17	411	1,850
	2-Nov-11	<0.500	<2.17	366	2,460
	25-Jul-11	<1.00	3.50	446	4,400
	28-Apr-11	<0.500	<2.17	292	1,750
	20-Jan-11	0.448	2.10	239	1,280
	22-Sep-10	0.0400	2.10	268	1,590
	28-Jun-10	<0.5	<2.0	287	1,600
	5-Mar-10	0.16	<0.3	370	1,650
	15-Jan-10	<0.03	<0.3	250	2,065
14-Sep-09	0.19	<0.3	390	1,700	
2-Jun-09	0.11	0.4	740	2,575	
15-Mar-09	0.11	0.2	1,090	3,165	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
167-08	23-Nov-15	<0.194	<1.18	699	2,460
	25-Aug-15	Bailer Down Well -Not Sampled			
	21-May-15	<0.0470	<1.18	733	2,680
	24-Feb-15	<0.0137	2.10	729	2,960
	24-Nov-14	<0.126	<1.80	944	3,020
	4-Sep-14	<0.126	<1.80	726	2,840
	27-May-14	<0.187	2.10	777	2,920
	4-Mar-14	1.02	<1.66	884	3,090
	10-Dec-13	Not Sampled			
	27-Aug-13	Not Sampled			
	21-May-13	1.13	<1.66	723	2,820
	25-Feb-13	0.895	<1.72	827	2,640
	15-Nov-12	Well Damaged - Not Sampled			
	14-Aug-12	0.192	<1.72	788	2,860
	2-May-12	0.399	<1.72	744	2,580
	30-Jan-12	<0.500	<2.17	805	2,440
	2-Nov-11	1.93	<2.17	759	2,520
	26-Jul-11	3.77	4.20	779	3,030
	28-Apr-11	3.74	<2.17	793	2,740
	20-Jan-11	<0.239	2.10	764	2,640
	23-Sep-10	0.250	<10.0	756	2,720
	28-Jun-10	5.51	<0.5	804	2,990
	5-Mar-10	5.5	<0.3	830	2,750
	15-Jan-10	0.84	<0.3	720	2,530
	14-Sep-09	2.9	0.3	640	2,380
2-Jun-09	2.1	0.6	750	2,785	
15-Mar-09	3.2	0.2	740	2,710	
167-09	13-Nov-15	<0.194	<1.18	627	2,400
	25-Aug-15	2.30	1.40	563	2,480
	21-May-15	4.15	<1.18	602	2,440
	19-Feb-15	5.42	<1.80	719	2,710
	20-Nov-14	6.31	2.80	683	2,830
	3-Sep-14	10.5	<1.80	680	2,980
	23-May-14	10.1	3.50	721	2,800
	3-Mar-14	6.49	<1.66	756	2,840
	10-Dec-13	3.82	4.90	777	2,980
	27-Aug-13	6.24	5.60	772	3,320
	17-May-13	10.7	<1.66	726	3,050
	21-Feb-13	4.51	<1.72	959	3,580
	19-Nov-12	12.8	<1.72	979	3,560
	14-Aug-12	8.47	2.10	916	3,760
	2-May-12	14.5	<1.72	1,070	4,000
	30-Jan-12	13.2	2.80	1,010	3,590
	3-Nov-11	7.53	8.40	988	3,590
	26-Jul-11	<1.00	3.78	736	2,300
	28-Apr-11	<0.500	2.38	467	2,140
	20-Jan-11	0.0147	<2.05	429	2,160
	24-Sep-10	0.0300	<10.0	432	1,500
	28-Jun-10	<0.5	<1.0	491	2,160
	5-Mar-10	0.05	<0.3	580	2,150
	15-Jan-10	<0.03	<0.3	500	2,250
	14-Sep-09	<0.03	<0.3	530	2,055
2-Jun-09	0.04	0.7	540	2,205	
15-Mar-09	0.07	0.2	630	2,400	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	
<b>Big Sky Dairy</b>						
833-01	18-Nov-15			Dry		
	27-Aug-15			Dry		
	21-May-15			Dry		
	25-Feb-15			Dry		
	25-Nov-14			Dry		
	25-Aug-14			Dry		
	27-May-14			Dry		
	4-Mar-14			Dry		
	6-Nov-13			Dry		
	29-Aug-13			Dry		
	21-May-13			Dry		
	26-Feb-13			Dry		
	19-Nov-12			Dry		
	15-Aug-12			Dry		
	7-May-12			Dry		
	15-Feb-12			Dry		
	1-Nov-11			Dry		
	21-Jul-11			Dry		
	29-Apr-11	Not Sampled - insufficient water to sample				
	24-Jan-11	33.6	4.20	997	3,100	
	23-Sep-10	29.1	<10.0	881	3,300	
	28-Jun-10	1.7	1.8	180	790	
	23-Mar-10	28.3	0.7	1,025	2,640	
14-Dec-09	21.8	ND	975	2,800		
31-Aug-09	15.3	ND	999	2,894		
1-Jun-09	8.6	ND	1,030	2,382		
2-Mar-09	37.1	ND	1,070	3,750		
833-02	18-Nov-15	74.5	4.48	1,300	4,240	
	27-Aug-15	44.5	2.80	720	2,250	
	22-May-15	34.5	<1.18	702	2,140	
	25-Feb-15	50.9	<1.80	780	2,820	
	25-Nov-14	60.4	<1.80	1,010	3,480	
	25-Aug-14	24.8	<1.80	528	2,090	
	27-May-14	27.0	2.10	563	2,140	
	5-Mar-14	79.8	<1.66	1,120	3,920	
	20-Nov-13	65.4	2.10	884	3,060	
	5-Sep-13	85.8	69.3	1,080	4,270	
	21-May-13	69.2	<1.66	858	3,140	
	25-Feb-13	97.0	<1.72	1,110	3,820	
	19-Nov-12	84.3	2.10	1,030	4,020	
	15-Aug-12	37.5	2.94	535	2,440	
	7-May-12	43.3	65.1	635	2,420	
	15-Feb-12	87.2	4.34	889	3,660	
	1-Nov-11	82.3	2.38	885	4,010	
	21-Jul-11	91.6	3.08	880	3,510	
	29-Apr-11	81.6	6.02	840	3,500	
	24-Jan-11	69.3	2.66	789	3,090	
	23-Sep-10	52.9	<10.0	833	3,650	
	28-Jun-10	29	<5.0	560	2,200	
	23-Mar-10	15.9	ND	660	2,066	
	14-Dec-09	11.5	0.28	650	2,018	
	31-Aug-09	12.4	ND	660	2,170	
	1-Jun-09	<0.5	ND	650	3,358	
	2-Mar-09	3.54	13.44	585	1,978	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
833-03	18-Nov-15				Dry
	27-Aug-15				Dry
	21-May-15				Dry
	25-Feb-15				Dry
	24-Nov-14				Dry
	25-Aug-14				Dry
	27-May-14				Dry
	3-Mar-14				Dry
	6-Nov-13				Dry
	29-Aug-13				Dry
	21-May-13				Dry
	25-Feb-13				Dry
	19-Nov-12				Dry
	15-Aug-12				Dry
	3-May-12				Dry
	15-Feb-12				Dry
	1-Nov-11				Dry
	21-Jul-11				Dry
	4-May-11	24.8	4.20	1,660	4,120
	24-Jan-11	30.4	2.66	1,650	4,090
	23-Sep-10	18.1	<10.0	1,410	3,880
	28-Jun-10	5.0	5.5	650	1,870
	23-Mar-10	14.0	ND	1,750	4,044
14-Dec-09	11.8	0.28	1,839	4,280	
31-Aug-09	8.9	ND	1,760	4,216	
1-Jun-09	90.4	ND	1,620	3,060	
2-Mar-09	21.2	ND	1,580	3,970	
833-04	19-Nov-15	11.8	3.36	762	2,310
	27-Aug-15	26.2	<1.18	835	2,580
	22-May-15	15.6	<1.18	766	2,290
	25-Feb-15	15.5	<1.80	666	2,260
	25-Nov-14	46.6	<1.80	914	3,280
	22-Aug-14	10.4	<1.80	677	2,230
	29-May-14	23.5	5.60	780	2,670
	4-Mar-14	50.0	<1.66	1,010	3,530
	20-Nov-13	12.8	2.10	711	2,280
	30-Aug-13	37.9	2.80	868	3,260
	21-May-13	41.9	<1.66	875	3,180
	25-Feb-13	2.45	<1.72	1,050	3,600
	19-Nov-12	50.0	<1.72	1,010	3,770
	15-Aug-12	32.7	2.66	783	2,680
	3-May-12	24.1	<1.72	623	2,920
	15-Feb-12	49.9	<2.17	942	3,320
	1-Nov-11	43.4	<2.17	867	3,040
	21-Jul-11	45.3	2.52	883	3,410
	29-Apr-11	46.2	<2.17	902	3,280
	24-Jan-11	40.9	<2.05	755	3,040
	24-Sep-10	<50.0	<10.0	915	3,480
	28-Jun-10	18	<2.0	500	1,830
	23-Mar-10	11.3	ND	560	1,648
14-Dec-09	11.2	0.42	570	1,750	
31-Aug-09	16.1	ND	630	1,986	
1-Jun-09	3.03	ND	580	1,968	
2-Mar-09	14.6	ND	600	1,884	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
833-05	18-Nov-15	20.9	<1.18	958	2,720
	27-Aug-15	22.1	2.80	833	2,350
	22-May-15	19.7	<1.18	999	2,680
	26-Feb-15	18.7	<1.80	1,050	2,970
	24-Nov-14	19.8	<1.80	992	2,680
	21-Aug-14	21.0	<1.80	752	2,320
	29-May-14	15.6	4.20	1,070	3,130
	4-Mar-14	18.5	<1.66	1,170	3,170
	25-Nov-13	17.8	2.80	1,060	2,900
	29-Aug-13	20.9	20.3	911	2,660
	21-May-13	14.7	<1.66	1,070	2,920
	26-Feb-13	16.8	<1.72	1,270	3,140
	20-Nov-12	15.0	2.10	1,070	3,100
	15-Aug-12	13.9	<1.72	1,100	3,250
	3-May-12	12.8	<1.72	1,030	2,790
	15-Feb-12	14.9	<2.17	1,230	3,100
	1-Nov-11	12.2	2.24	1,150	2,580
	21-Jul-11	12.0	2.66	1,210	3,180
	29-Apr-11	17.6	<2.17	1,330	3,300
	24-Jan-11	23.2	2.66	1,340	3,430
	24-Sep-10	28.9	<10.0	1,330	3,800
	28-Jun-10	12	<2.0	1,200	3,090
	23-Mar-10	12.2	ND	1,240	2,942
	14-Dec-10	6.7	0.56	1,280	3,096
	31-Aug-09	9.0	ND	1,220	3,152
	1-Jun-09	3.43	ND	1,230	3,026
2-Mar-09	11	ND	1,255	3,134	
833-06	19-Nov-15	51.1	<1.18	752	2,560
	27-Aug-15	32.3	<1.18	708	2,360
	22-May-15	38.6	<1.18	787	2,470
	24-Feb-15	71.9	<1.80	827	3,080
	25-Nov-14	46.5	<1.80	836	2,710
	21-Aug-14	17.4	<1.80	663	2,300
	29-May-14	26.5	3.50	760	2,460
	4-Mar-14	41.9	<1.66	847	2,800
	21-Nov-13	27.4	3.50	771	2,490
	30-Aug-13	25.3	2.80	656	2,310
	20-May-13	25.9	<1.66	816	2,640
	25-Feb-13	21.6	<1.72	924	2,750
	19-Nov-12	24.2	<1.72	920	2,840
	15-Aug-12	23.4	<1.72	845	2,670
	3-May-12	20.7	<1.72	702	2,560
	14-Feb-12	26.4	<2.17	727	2,480
	2-Nov-11	28.8	3.08	688	1,900
	21-Jul-11	70.1	7.70	682	2,650
	4-May-11	36.4	7.70	717	2,440
	20-Jan-11	61.0	2.80	738	2,360
	23-Sep-10	64.3	<10.0	761	2,680
	28-Jun-10	23	<5.0	630	2,310
	23-Mar-10	24.8	2.38	700	2,184
	14-Dec-09	22.7	1.68	820	2,344
	31-Aug-09	25.1	1.96	790	2,708
	1-Jun-09	106	ND	680	2,280
2-Mar-09	66.4	ND	610	2,160	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
833-07	18-Nov-15	91.0	1.68	1,130	4,150
	27-Aug-15	88.9	2.80	1,350	4,700
	22-May-15	76.7	<1.18	1,320	4,460
	25-Feb-15	86.8	<1.80	1,100	4,320
	24-Nov-14	92.5	<1.80	1,190	4,300
	21-Aug-14	83.6	5.60	1,360	4,920
	29-May-14	87.0	4.90	1,380	4,760
	4-Mar-14	73.0	<1.66	1,390	4,420
	21-Nov-13	78.3	2.80	1,330	4,380
	29-Aug-13	78.4	4.90	1,330	4,420
	21-May-13	88.7	<1.66	1,400	4,730
	26-Feb-13	95.5	<1.72	1,470	4,500
	20-Nov-12	95.1	<1.72	1,130	4,290
	15-Aug-12	99.8	2.52	1,540	5,110
	7-May-12	95.6	7.56	1,460	4,880
	15-Feb-12	90.3	<2.17	1,340	4,660
	1-Nov-11	94.2	<2.17	1,090	3,840
	21-Jul-11	105	<2.17	115	4,090
	29-Apr-11	100	<2.17	1,220	4,380
	24-Jan-11	100	2.10	1,140	4,350
	24-Sep-10	129	<10.0	933	3,800
	28-Jun-10	69	<5.0	1,300	4,160
	23-Mar-10	106	ND	1,320	3,884
	14-Dec-09	101	0.42	1,260	3,988
	31-Aug-09	74	8.68	1,180	3,978
	1-Jun-09	12.4	8.68	1,180	3,964
2-Mar-09	33.2	ND	1,380	3,866	
833-08	18-Nov-15	56.9	<1.18	533	2,010
	27-Aug-15	55.7	<1.18	569	2,360
	21-May-15	66.4	<1.18	620	2,460
	26-Feb-15	65.1	<1.80	981	3,340
	24-Nov-14	63.7	<1.80	1,130	3,320
	22-Aug-14	90.2	<1.80	672	2,900
	27-May-14	91.5	2.10	772	3,030
	4-Mar-14	100	<1.66	807	3,220
	21-Nov-13	86.3	<1.66	827	3,000
	29-Aug-13	79.6	4.90	971	3,300
	21-May-13	80.2	<1.66	953	3,320
	26-Feb-13	83.1	<1.72	877	2,940
	20-Nov-12	60.8	<1.72	1,070	3,580
	15-Aug-12	57.8	2.52	987	3,480
	3-May-12	61.4	<1.72	927	3,040
	15-Feb-12	77.6	<2.17	1,020	3,200
	1-Nov-11	69.8	4.20	966	3,080
	21-Jul-11	68.8	<2.17	963	3,240
	29-Apr-11	75.9	<2.17	950	3,330
	24-Jan-11	93.4	2.10	930	3,190
	23-Sep-10	91.8	<10.0	985	3,600
	28-Jun-10	35	<5.0	630	2,290
	23-Mar-10	33	ND	700	2,108
	14-Dec-09	31	ND	950	2,710
	31-Aug-09	63	ND	1,020	3,576
	1-Jun-09	41.4	ND	1,000	3,492
2-Mar-09	121	ND	700	2,038	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
833-09	18-Nov-15	109	<1.18	902	3,860
	27-Aug-15	92.6	<1.18	861	3,580
	21-May-15	123	<1.18	957	4,170
	25-Feb-15	136	<1.80	936	4,450
	25-Nov-14	137	<1.80	965	4,260
	22-Aug-14	64.9	<1.80	759	3,240
	27-May-14	85.0	6.30	868	3,790
	5-Mar-14	125	<1.66	998	4,430
	20-Nov-13	137	<1.66	1,060	4,640
	29-Aug-13	82.2	3.50	786	3,860
	22-May-13	78.1	<1.66	786	3,630
	28-Feb-13	101	<1.72	876	4,060
	20-Nov-12	89.6	<1.72	731	3,760
	15-Aug-12	99.3	<1.72	875	3,780
	7-May-12	80.4	<1.72	745	3,830
	15-Feb-12	94.8	<2.17	725	3,580
	1-Nov-11	93.0	<2.17	779	3,880
	21-Jul-11	135	<2.17	1,070	4,550
	4-May-11	147	<2.17	1,420	5,540
	25-Jan-11	134	2.80	1,420	4,850
	24-Sep-10	58.2	<10.0	1,050	4,110
	28-Jun-10	50	<5.0	1,200	4,380
	23-Mar-10	16.3	0.56	1,100	3,624
	14-Dec-09	2.7	0.28	960	3,184
	31-Aug-09	6.6	ND	870	3,178
1-Jun-09	18.10	1.12	880	3,164	
2-Mar-09	7.07	ND	825	3,202	
833-10	18-Nov-15	2.69	<1.18	660	2,580
	27-Aug-15	3.58	<1.18	678	2,670
	21-May-15	3.81	<1.18	732	2,700
	25-Feb-15	4.52	<1.80	661	2,740
	25-Nov-14	4.96	<1.80	690	2,760
	21-Aug-14	5.66	<1.80	671	2,780
	29-May-14	3.20	2.10	667	2,670
	5-Mar-14	2.47	<1.66	679	2,660
	20-Nov-13	2.93	<1.66	695	2,620
	29-Aug-13	3.77	4.20	642	2,800
	22-May-13	3.96	<1.66	648	2,580
	28-Feb-13	4.19	<1.72	689	2,640
	20-Nov-12	4.25	<1.72	608	2,540
	15-Aug-12	4.93	2.52	585	2,530
	7-May-12	3.95	<1.72	581	2,350
	15-Feb-12	3.18	<2.17	582	2,440
	1-Nov-11	3.69	<2.17	573	2,590
	21-Jul-11	4.63	3.78	597	2,480
	4-May-11	5.19	<2.17	714	2,670
	25-Jan-11	8.46	2.10	649	2,730
	24-Sep-10	<10.0	<10.0	654	2,250
	28-Jun-10	3.6	<1.0	750	2,790
	23-Mar-10	6.8	ND	1,220	3,868
	14-Dec-09	3.7	0.14	790	2,576
	31-Aug-09	4.7	ND	750	2,548
1-Jun-09	7.1	ND	650	2,458	
2-Mar-09	2.43	ND	855	2,954	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
<b>Sunset/Desert Land Dairy</b>					
257-01	19-Nov-15	49.1	<1.18	821	3,680
	28-Aug-15	50.4	<10.0	816	3,490
	26-May-15	49.4	3.50	809	3,460
	19-Feb-15	27.5	<1.80	629	2,880
	1-Dec-14	47.9	<1.80	750	3,370
	25-Aug-14	49.4	<1.80	694	3,570
	30-May-14	47.9	3.50	739	3,320
	6-Mar-14	44.3	<1.66	707	3,130
	25-Nov-13	42.4	2.80	726	3,090
	28-Aug-13	44.4	5.60	719	3,160
	22-May-13	33.6	<1.66	660	3,100
	21-Feb-13	28.3	<1.72	665	3,200
	21-Nov-12	24.7	2.80	625	3,130
	16-Aug-12	23.2	<1.72	617	3,060
	26-Apr-12	23.7	22.7	680	2,920
	9-Feb-12	19.4	<2.17	603	2,940
	1-Nov-11	28.4	<2.17	619	2,730
	22-Jul-11	44.8	<2.17	673	3,270
	26-Apr-11	103	3.78	870	4,440
	19-Jan-11	59.3	3.08	743	3,420
	24-Sep-10	58.0	<10.0	685	3,120
	28-Jun-10	100	<1.0	820	3,800
	24-Mar-10	187	ND	1,100	4,342
	14-Dec-09	71	0.14	910	3,860
	31-Aug-09	49	ND	880	3,706
2-Jun-09	64	ND	910	3,822	
3-Mar-09	89	ND	1,135	4,652	
257-02	19-Nov-15	12.2	<1.18	800	2,890
	28-Aug-15	8.86	<10.0	632	2,700
	26-May-15	9.36	1.40	727	2,660
	19-Feb-15	8.45	<1.80	610	2,440
	1-Dec-14	6.39	<1.80	669	2,760
	25-Aug-14	6.53	<1.80	585	2,550
	30-May-14	11.5	2.10	531	2,100
	6-Mar-14	10.4	<1.66	530	2,120
	25-Nov-13	11.1	2.80	529	2,070
	28-Aug-13	7.59	8.40	511	2,200
	22-May-13	3.39	<1.66	469	1,880
	21-Feb-13	10.3	<1.72	470	1,980
	21-Nov-12	10.0	2.80	468	2,060
	16-Aug-12	14.8	<1.72	484	2,170
	26-Apr-12	23.2	8.40	505	1,840
	9-Feb-12	11.1	<2.17	443	1,840
	1-Nov-11	19.3	2.24	442	3,150
	22-Jul-11	28.7	<2.17	501	2,160
	26-Apr-11	24.9	2.80	433	2,000
	19-Jan-11	13.3	2.52	455	1,500
	24-Sep-10	21.0	<10.0	445	1,590
	29-Jun-10	24	<1.0	560	2,180
	24-Mar-10	22.3	ND	570	1,840
	14-Dec-09	19.3	0.14	480	1,916
	31-Aug-09	14.2	ND	410	1,518
2-Jun-09	1.86	ND	500	1,690	
3-Mar-09	30.4	ND	495	1,632	



**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	
257-03	19-Nov-15	Dry				
	28-Aug-15	5.37	<10.0	477	2,060	
	26-May-15	Dry				
	19-Feb-15	Not Sampled - insufficient water to sample				
	1-Dec-14	Dry				
	25-Aug-14	7.64	<1.80	413	1,840	
	30-May-14	Dry				
	6-Mar-14	6.06	<1.66	546	2,380	
	25-Nov-13	2.03	4.90	494	1,900	
	28-Aug-13	4.55	4.90	569	2,360	
	22-May-13	7.23	<1.66	658	2,640	
	21-Feb-13	2.65	<1.72	520	2,060	
	21-Nov-12	3.11	2.80	490	2,250	
	16-Aug-12	17.6	2.10	509	2,420	
	26-Apr-12	6.60	4.20	601	2,330	
	14-Feb-12	11.2	<2.17	636	2,620	
	1-Nov-11	7.37	2.80	537	2,210	
	22-Jul-11	12.9	2.80	576	2,100	
	26-Apr-11	12.5	5.88	525	2,400	
	19-Jan-11	2.67	2.24	377	1,600	
	24-Sep-10	8.00	<10.0	400	1,670	
	29-Jun-10	17	1.1	660	2,570	
	24-Mar-10	10.1	1.12	640	2,342	
	14-Dec-09	5.9	0.56	760	2,638	
	31-Aug-09	10.7	0.84	610	2,260	
	2-Jun-09	5.99	ND	570	2,284	
	3-Mar-09	334*	ND	690	2,538	
	257/260-01	19-Nov-15	<0.194	15.7	542	2,260
		28-Aug-15	8.81	<10.0	210	1,140
		26-May-15	2.02	18.9	726	2,750
19-Feb-15		1.09	<1.80	445	2,220	
1-Dec-14		4.92	2.80	375	1,520	
25-Aug-14		3.74	6.30	562	2,440	
30-May-14		4.82	2.10	658	2,640	
6-Mar-14		4.22	<1.66	644	2,780	
25-Nov-13		3.30	6.30	580	2,220	
28-Aug-13		2.81	7.70	624	2,460	
22-May-13		2.39	<1.66	673	2,820	
21-Feb-13		9.35	<1.72	816	2,980	
21-Nov-12		13.0	3.50	722	3,020	
16-Aug-12		3.67	6.30	667	2,620	
26-Apr-12		6.83	2.80	575	2,660	
14-Feb-12		9.68	<2.17	565	2,180	
1-Nov-11		16.7	2.94	658	2,850	
22-Jul-11		4.66	3.64	440	1,860	
26-Apr-11		<0.500	4.34	624	2,580	
19-Jan-11		1.21	4.20	480	1,860	
24-Sep-10		11.0	<10.0	576	2,480	
30-Jun-10		5.4	<5.0	530	1,980	
23-Mar-10		5.0	ND	340	982	
14-Dec-09		45	26.32	220	520	
31-Aug-09		0.3	8.7	570	1,704	
2-Jun-09		1.65	7.0	660	1,936	
3-Mar-09		3.98	1.12	555	1,908	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
<b>McAnally Enterprises</b>					
MW-4	13-Mar-09	3.5	<0.5	2,110	5,686
<b>Southern Area</b>					
<b>Del Oro Dairy</b>					
692-01	2-Dec-15	78.4	<1.18	579	2,420
	31-Aug-15	Pump was not operational			
	28-May-15	Pump was not operational			
	3-Mar-15	Pump was not operational			
	2-Dec-14	99.4	4.90	678	2,830
	27-Aug-14	95.6	9.10	643	2,910
	2-Jun-14	98.2	4.20	612	2,660
	13-Mar-14	97.8	<1.66	647	2,820
	4-Dec-13	2.57	7.00	706	2,840
	4-Sep-13	Not Sampled			
	28-May-13	82.4	<1.66	612	2,660
	27-Feb-13	87.9	<1.72	654	2,690
	30-Nov-12	117	<1.72	821	3,490
	20-Aug-12	Pump was not operational			
	8-May-12	163	<1.72	1,060	4,820
	17-Feb-12	166	7.28	1,090	4,000
	8-Nov-11	168	6.44	1,180	4,690
	29-Jul-11	176	<2.17	1,210	4,840
	22-Apr-11	140		998	3,880
	19-Jan-11	213	2.10	1,070	4,320
	1-Oct-10	222	<10.0	1,060	4,640
30-Jun-10	230	<5.0	1,100	4,080	
30-Mar-10	117.5	3	1,080	3,991	
8-Dec-09	107	1	1,060	4,897	
12-Aug-09	127	3	1,120	4,955	
4-May-09	120	3	1,160	4,295	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	
692-02	2-Dec-15	134	2.24	967	3,500	
	31-Aug-15	140	4.90	995	3,660	
	26-May-15	140	4.20	973	3,430	
	3-Mar-15	142	2.10	963	3,640	
	2-Dec-14	147	<1.80	974	3,430	
	27-Aug-14	132	2.80	909	3,510	
	30-May-14	128	4.20	906	3,370	
	7-Mar-14	129	<1.66	912	3,420	
	3-Dec-13	108	2.80	906	3,520	
	4-Sep-13	120	2.80	925	3,600	
	23-May-13	47.8	<1.66	742	2,720	
	27-Feb-13	3.37	<1.72	396	1,520	
	30-Nov-12	<0.0290	<1.72	358	1,450	
	20-Aug-12	1.72	<1.72	371	1,460	
	8-May-12	1.75	<1.72	339	1,350	
	17-Feb-12	2.55	<2.17	410	1,490	
	31-Oct-11	4.69	<2.17	451	1,720	
	29-Jul-11	24.1	<2.17	504	2,280	
	27-Apr-11	92.3	<10.0	921	3,080	
	26-Jan-11	47.2	3.64	706	2,490	
	1-Oct-10	Not Sampled				
	30-Jun-10	140	<5.0	1,100	3,520	
	30-Mar-10	107.5	1	1,320	3,861	
	8-Dec-09	96	1	1,200	4,073	
12-Aug-09	66	3	1,140	4,317		
4-May-09	52	1	1,100	3,337		
692-03	30-Mar-10	Plugged and Abandoned				
	4-May-09					
692-04	2-Dec-15	Dry				
	31-Aug-15	Dry				
	26-May-15	Dry				
	3-Mar-15	Not Sampled - insufficient water to sample				
	2-Dec-14	27.1	<1.80	582	2,000	
	28-Aug-14	32.5	<1.80	508	2,060	
	30-May-14	38.7	4.20	481	2,010	
	7-Mar-14	44.4	<1.66	581	2,290	
	3-Dec-13	43.5	2.80	646	2,490	
	4-Sep-13	Not Sampled - insufficient water to sample				
	23-May-13	71.3	<1.66	676	2,740	
	27-Feb-13	25.2	<1.72	625	2,390	
	30-Nov-12	24.3	<1.72	573	2,540	
	20-Aug-12	42.1	<1.72	689	2,850	
	8-May-12	39.6	<1.72	652	2,490	
	17-Feb-12	30.2	<2.17	557	2,060	
	31-Oct-11	22.9	<2.17	477	1,600	
	29-Jul-11	25.2	<2.17	503	1,960	
	22-Apr-11	98.5	<2.17	893	3,240	
	19-Jan-11	148	3.22	1040	3,740	
	28-Sep-10	67.0	<10.0	802	3,060	
	30-Jun-10	50	<5.0	590	2,050	
	30-Mar-10	28	1	600	2,012	
	8-Dec-09	31	1	590	2,069	
12-Aug-09	26	1	680	2,158		
4-May-09	26	1	580	2,081		

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
692-05	2-Dec-15	5.68	<1.18	457	1,370
	31-Aug-15	5.03	11.9	496	1,380
	26-May-15	3.93	<1.18	474	1,440
	3-Mar-15	3.70	<1.80	430	1,440
	2-Dec-14	4.80	<1.80	447	1,460
	27-Aug-14	5.78	<1.80	424	1,340
	2-Jun-14	6.50	3.50	427	1,460
	14-Mar-14	1.67	<1.66	452	1,440
	4-Dec-13	4.05	2.80	437	1,360
	4-Sep-13	2.12	4.20	446	1,480
	28-May-13	1.90	<1.66	417	1,280
	27-Feb-13	2.16	<1.72	410	1,340
	29-Nov-12	2.28	<1.72	397	1,370
	16-Aug-12	2.73	17.6	455	1,520
	7-May-12	1.92	3.08	420	1,570
	17-Feb-12	2.52	<2.17	423	1,310
	8-Nov-11	2.30	2.94	383	1,230
	1-Aug-11	<1.00	3.50	420	1,710
	26-Apr-11	<2.50	<10.0	401	1,710
	19-Jan-11	4.12	2.10	443	1,280
	1-Oct-10	3.10	<10.0	420	1,430
	30-Jun-10	2.1	<1.0	500	1,490
	30-Mar-10	1.5	1	480	1,501
8-Dec-09	1.4	1	540	1,538	
12-Aug-09	0.8	1	500	1,602	
4-May-09	1.0	1	500	1,477	
692-06	2-Dec-15	3.04	<1.18	450	1,420
	31-Aug-15	2.56	<1.18	444	1,400
	26-May-15	4.29	1.40	480	1,410
	3-Mar-15	3.40	<1.80	444	1,440
	2-Dec-14	3.65	<1.80	461	1,440
	27-Aug-14	3.77	<1.80	434	1,420
	2-Jun-14	3.90	3.50	453	1,500
	7-Mar-14	3.03	<1.66	429	1,400
	3-Dec-13	3.70	2.10	470	1,470
	4-Sep-13	3.19	2.10	423	1,540
	23-May-13	2.71	<1.66	415	1,370
	27-Feb-13	2.81	<1.72	412	1,390
	4-Dec-12	2.19	<1.72	395	1,380
	16-Aug-12	3.24	3.36	418	1,400
	8-May-12	2.62	<1.72	397	1,620
	17-Feb-12	9.39	<2.17	459	1,200
	8-Nov-11	6.46	<2.17	425	1,450
	1-Aug-11	6.07	2.80	409	1,500
	26-Apr-11	4.50	<10.0	422	1,590
	19-Jan-11	4.95	2.10	431	1,360
	1-Oct-10	11.0	<10.0	373	1,490
	30-Jun-10	7.4	<1.0	440	1,470
	30-Mar-10	3.9	1	460	1,532
8-Dec-09	2.3	1	540	1,609	
12-Aug-09	2.8	1	440	1,555	
4-May-09	2.9	1	500	1,552	

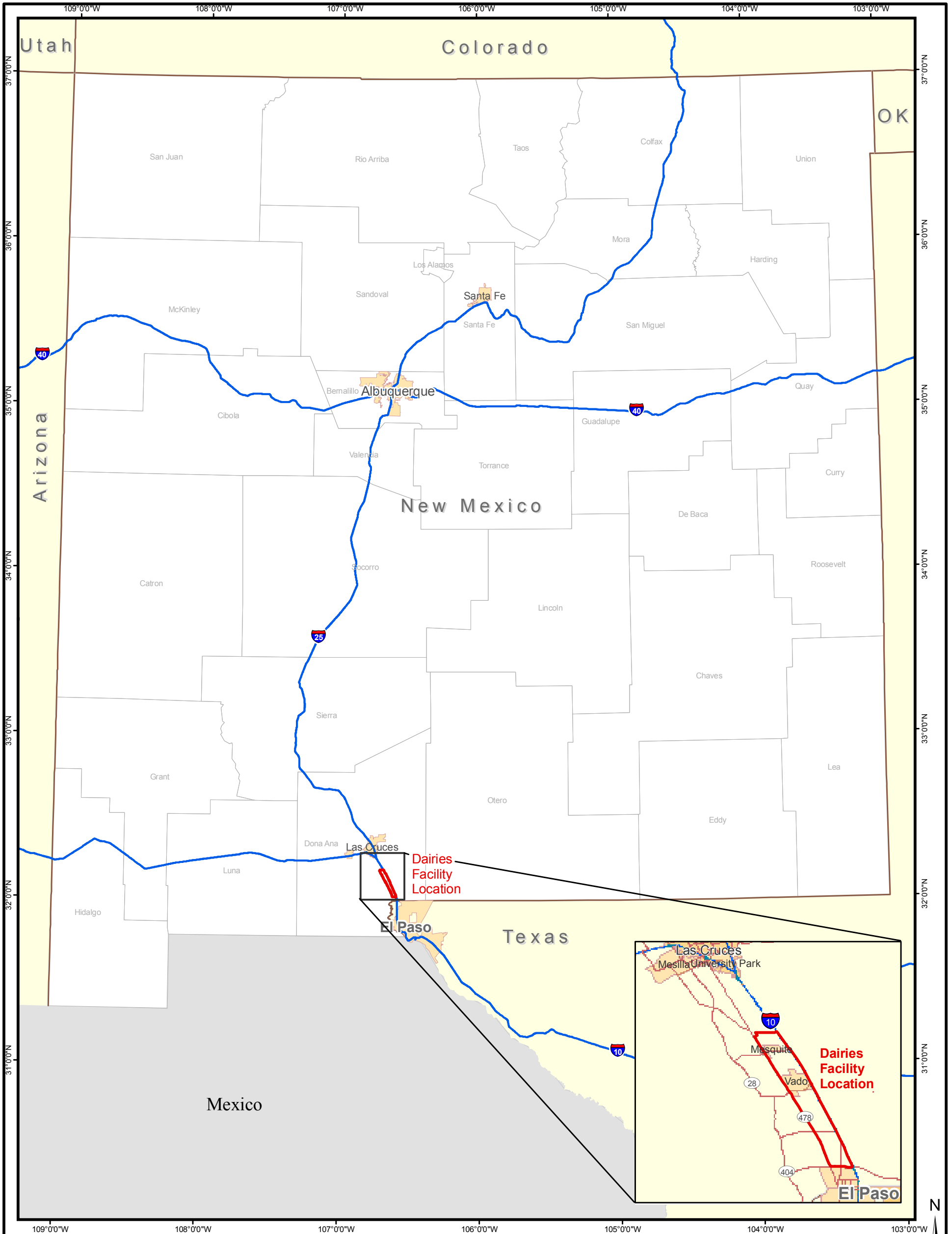
**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
692-07	2-Dec-15	3.13	<1.18	582	1,490
	31-Aug-15	2.97	<1.18	578	1,570
	26-May-15	2.93	<1.18	589	1,580
	3-Mar-15	3.53	<1.80	668	1,580
	2-Dec-14	Pump was not operational			
	27-Aug-14	Not Sampled - insufficient water to sample			
	2-Jun-14	3.20	2.80	527	1,590
	14-Mar-14	3.26	<1.66	544	1,580
	4-Dec-13	4.26	2.10	581	1,600
	4-Sep-13	4.17	<1.66	550	1,840
	28-May-13	3.68	<1.66	524	1,530
	27-Feb-13	3.82	<1.72	563	1,630
	30-Nov-12	4.05	<1.72	535	1,660
	16-Aug-12	5.36	3.50	549	1,780
	8-May-12	3.55	<1.72	530	1,780
	17-Feb-12	4.76	<2.17	518	1,600
	12-Nov-11	5.22	<2.17	555	780
	1-Aug-11	<1.00	2.66	567	2,000
	26-Apr-11	39.3	<10.0	694	2,520
	19-Jan-11	17.2	2.38	589	1,100
	1-Oct-10	27.0	< 10.0	617	2,300
	30-Jun-10	Not Sampled			
	30-Mar-10	42	1	820	2,967
	8-Dec-09	28	1	860	3,131
12-Aug-09	36	1	780	3,041	
4-May-09	50	1	960	3,480	
692-08	2-Dec-15	1.91	<1.18	434	1,330
	31-Aug-15	<0.194	<1.18	432	1,380
	28-May-15	0.652	<1.18	460	1,430
	2-Mar-15	3.34	<1.80	433	1,360
	2-Dec-14	2.65	<1.80	437	1,370
	27-Aug-14	2.71	<1.80	418	1,300
	2-Jun-14	4.70	4.90	435	1,300
	14-Mar-14	4.27	<1.66	435	1,430
	4-Dec-13	3.22	<1.66	456	1,320
	4-Sep-13	3.58	2.10	430	1,360
	28-May-13	3.49	<1.66	434	2,760
	27-Feb-13	6.27	<1.72	424	1,380
	30-Nov-12	11.70	<1.72	393	1,500
	20-Aug-12	2.98	<1.72	410	1,340
	8-May-12	1.84	<1.72	364	1,560
	17-Feb-12	3.94	<2.17	452	1,390
	8-Nov-11	2.60	2.80	436	1,340
	1-Aug-11	<1.00	<2.17	386	2,240
	26-Apr-11	3.49	<10.0	435	1,440
	19-Jan-11	3.26	<2.05	431	1,120
	1-Oct-10	5.70	<10.0	386	1,390
	30-Jun-10	3.5	<1.0	460	1,430
	30-Mar-10	3.0	1	520	1,518
	8-Dec-09	2.5	1	500	1,459
12-Aug-09	1.8	1	520	1,476	
4-May-09	2.0	1	480	1,476	

**TABLE 5. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
692-09	2-Dec-15	2.88	<1.18	435	1,320
	31-Aug-15	3.04	<1.18	434	1,290
	28-May-15	2.85	<1.18	460	1,380
	3-Mar-15	2.35	<1.80	428	1,300
	2-Dec-14	1.94	<1.80	444	1,420
	28-Aug-14	4.36	<1.80	418	1,450
	2-Jun-14	6.81	<1.80	459	1,300
	14-Mar-14	6.08	<1.66	453	1,460
	4-Dec-13	3.43	2.10	465	1,440
	4-Sep-13	8.52	3.50	452	1,460
	28-May-13	8.92	<1.66	457	1,410
	27-Feb-13	9.50	<1.72	465	1,440
	29-Nov-12	7.91	13.3	425	1,410
	20-Aug-12	7.71	<1.72	400	1,480
	7-May-12	7.80	<1.72	391	1,470
	17-Feb-12	6.89	<2.17	457	1,450
	8-Nov-11	10.6	<2.17	455	1,400
	1-Aug-11	12.6	<2.17	407	1,300
	26-Apr-11	10.8	<10.0	420	1,140
	18-Jan-11	12.0	<2.05	460	1,160
1-Oct-10	15.0	<10.0	387	1,480	
30-Jun-10	22	<5.0	480	1,500	
30-Mar-10	11	1	520	1,606	
8-Dec-09	10	1	460	1,536	
12-Aug-09	6	1	460	1,675	
4-May-09	6	1	480	1,545	
<b>NMWQCC Standard</b>		<b>10</b>	<b>NA</b>	<b>250</b>	<b>1,000</b>
NOTES:					
Data suspect					
mg/l = milligrams per liter					
ND = Non-detect					
NMWQCC = New Mexico Water Quality Control Commission					
TDS = Total dissolved solids					
TKN = Total Kjeldahl nitrogen					
Highlight is at or above NMWQCC Standard					

## **FIGURES**

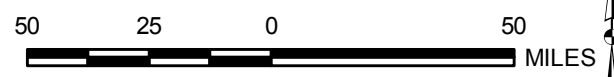


**LEGEND:**


 Facility Boundary

**REFERENCES**

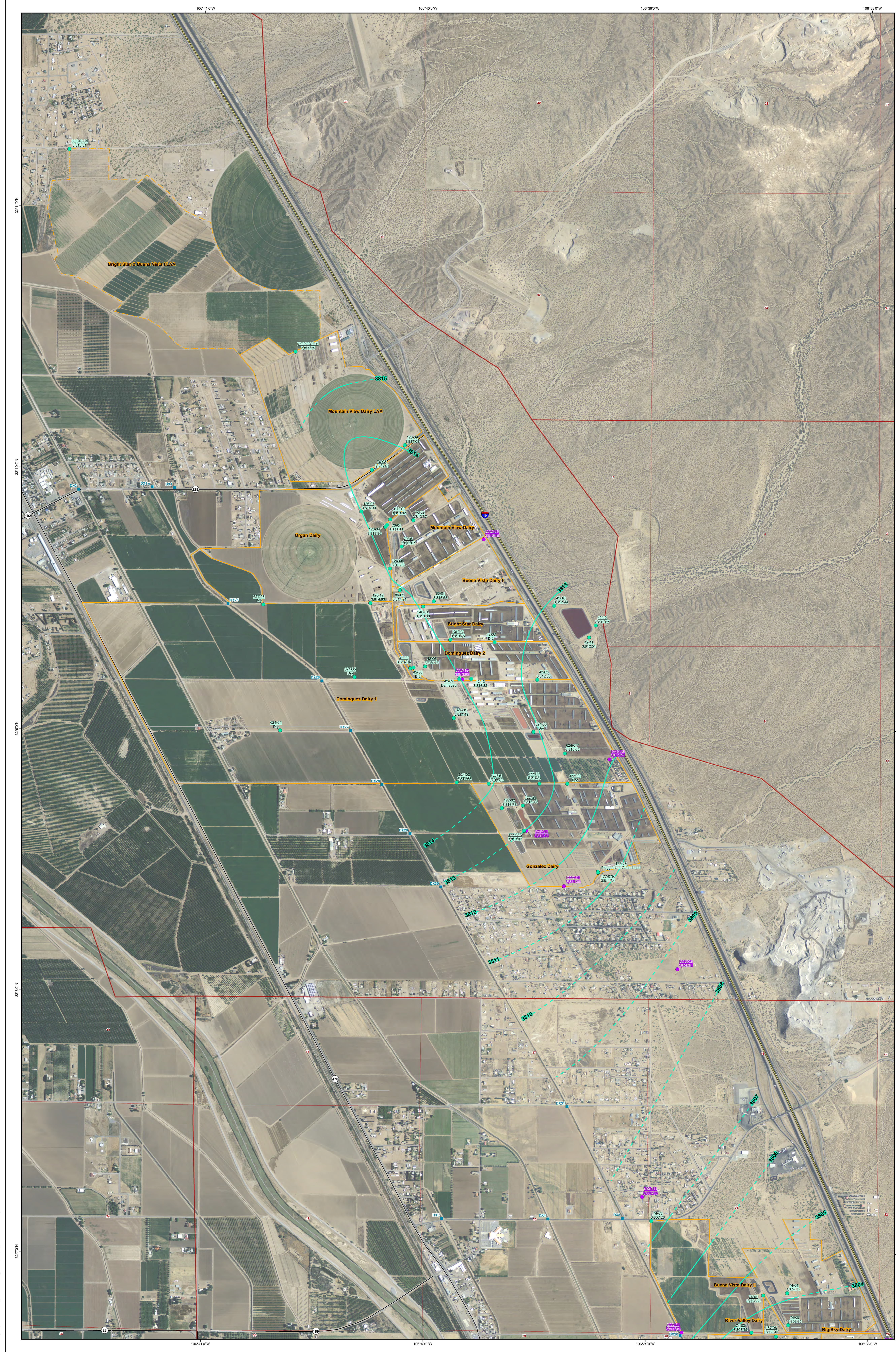
Base Data: ESRI, 2008.



SCALE 1:2,500,000  
WHEN PRODUCED AT 11X17IN

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TITLE		SITE LOCATION MAP	
	PROJECT No.	11x17_siteloc.mxd	
	DESIGN		SCALE AS SHOWN
	GIS		REV 0
	CHECK		
REVIEW		<p><b>FIGURE 1</b></p>	

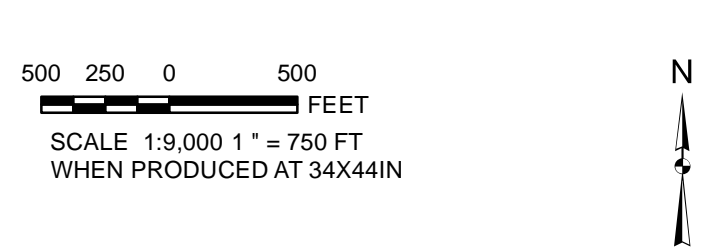




- LEGEND**
- Drain Crossing Location
  - Discharge Plan Well with Water Elevation
  - Abatement Plan Well with Water Elevation
  - Interstate Highway
  - State Highway
  - Other Road
  - Land Owned by Dairies
  - Land Application on Non-Dairy Property
  - Public Land Survey System

Note:  
 \* = Well not used in contouring

**REFERENCES**  
 Roads: Doña Ana County, 2001  
 Aerial Photography: NAIP, 2011  
 PLSS: BLM, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)



PROJECT: DOÑA ANA DAIRIES  
 MESQUITE, NEW MEXICO

MAP: POTENTIOMETRIC SURFACE MAP,  
 NOVEMBER 2015, NORTHERN PORTION

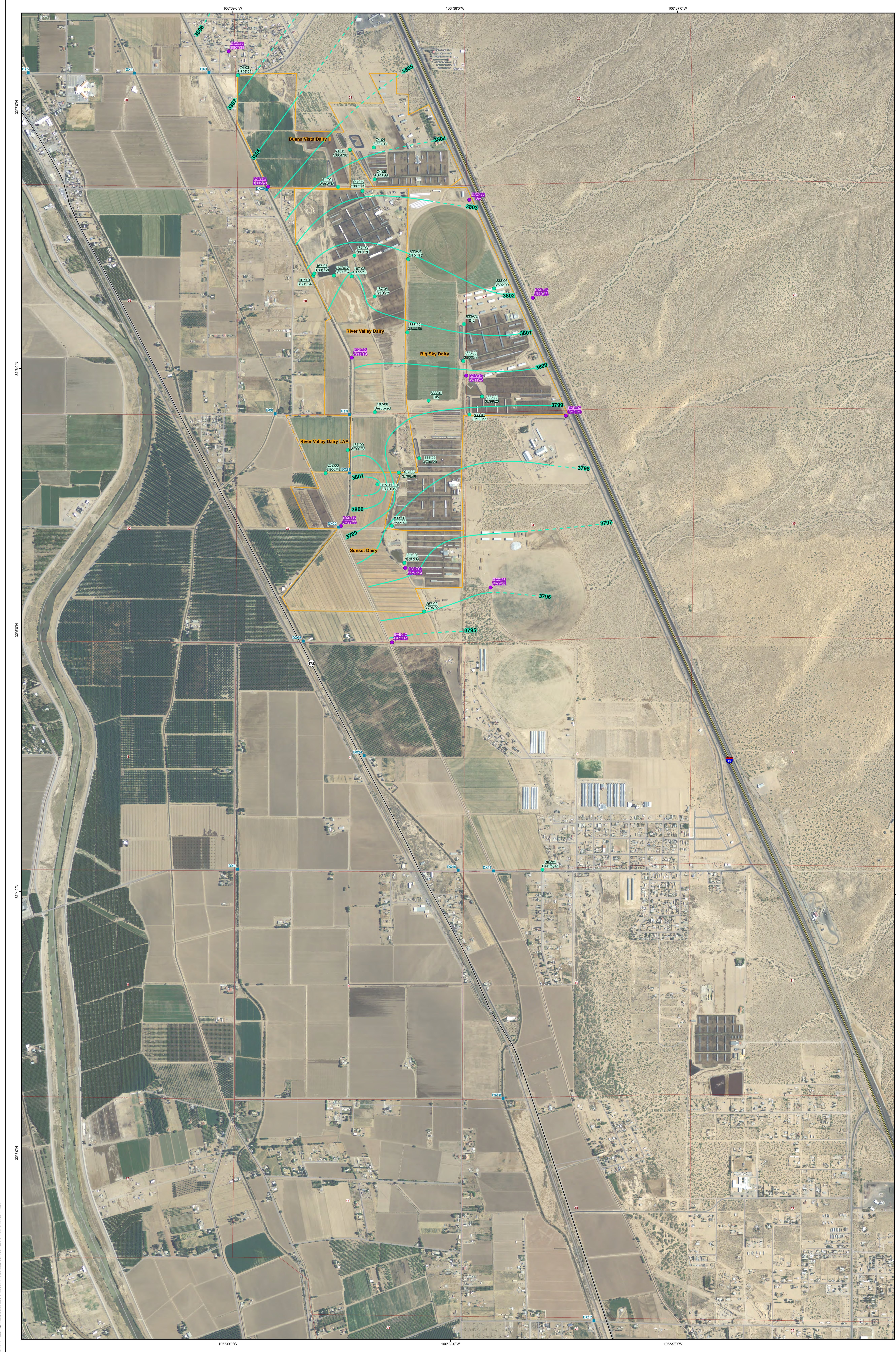
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PROJECT:	DOÑA ANA DAIRIES	DATE:	11/15/2015
MAP:	POTENTIOMETRIC SURFACE MAP	SCALE:	1:8,000
NO:	01	DATE:	11/15/2015

EA

FIGURE 2

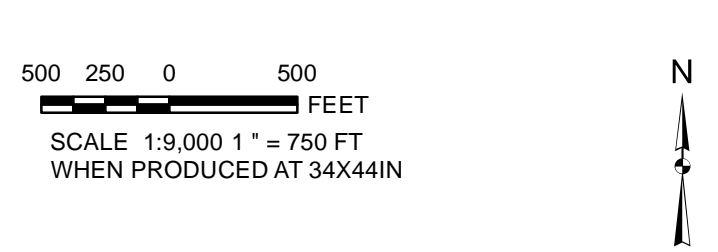
2015 11 15 10:58 AM P:\Projects\DOA\DOA\_11\_15\_15\Map\_01.dwg





- LEGEND**
- Drain Crossing Location
  - Discharge Plan Well With Water Elevations (Feet MSL)
  - Abatement Plan Well With Water Elevations (Feet MSL)
  - Potentiometric Contour
  - Potentiometric Contour - Assumed
  - ▭ Land Owned by Dairies
  - ▭ Land Application on Non-Dairy Property
  - ▭ Public Land Survey System
- Note:  
NM = Not measured

**REFERENCES**  
 Roads: Doña Ana County, 2001  
 Aerial Photography: NAIP, 2011  
 PLSS: BLM, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)



PROJECT: DOÑA ANA DAIRIES  
 MESQUITE, NEW MEXICO

MAP: POTENTIOMETRIC SURFACE MAP,  
 NOVEMBER 2015, CENTRAL PORTION

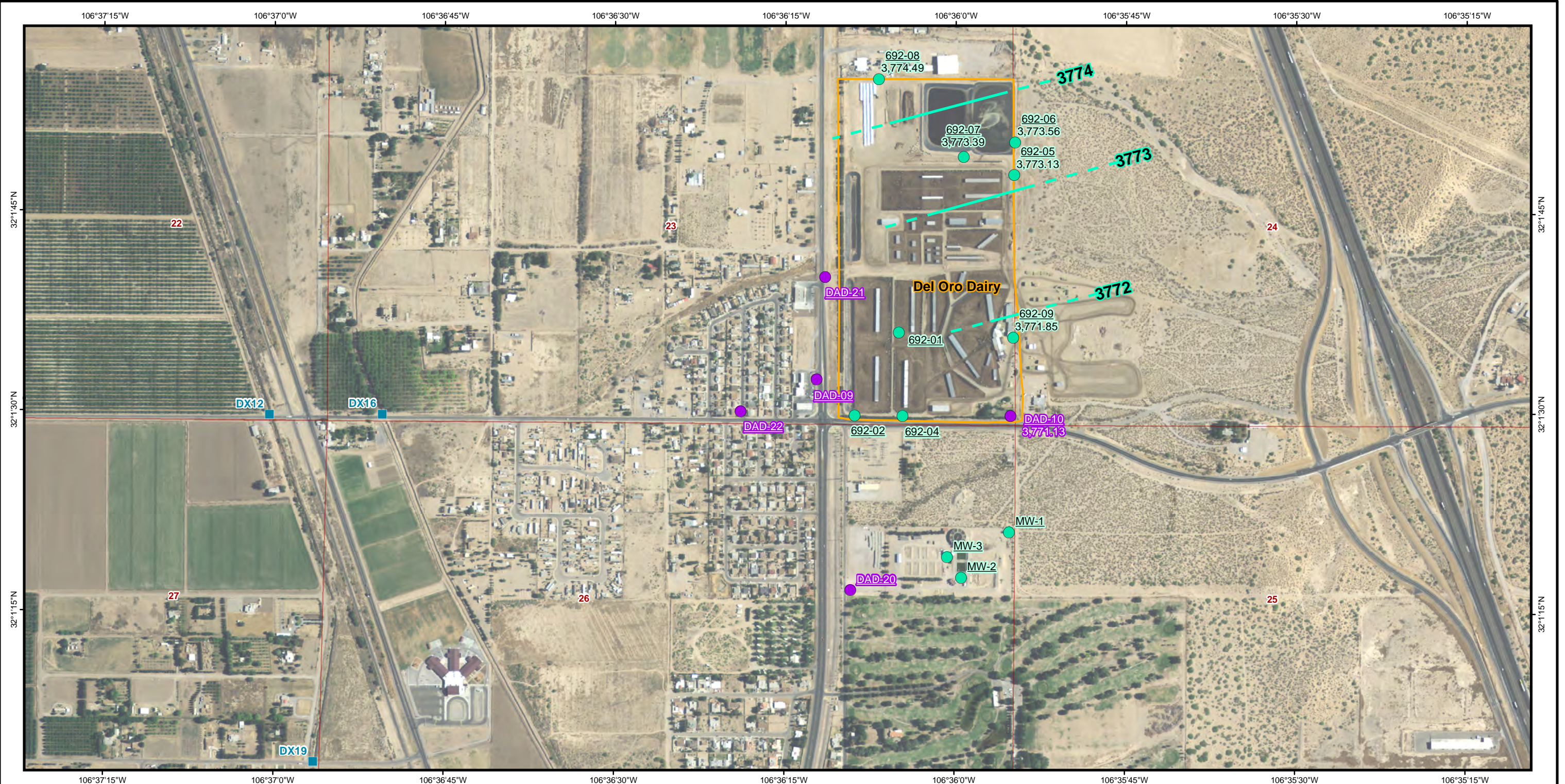
PROJECT No.	DOA-2015-001
DATE	NOV 2015
SCALE	1" = 750 FT
PROJECTED	

**EA** **FIGURE 3**

2015-11-14 10:44:14 PM P:\Projects\DOA\DOA-2015-001\DOA-2015-001-Fig3.dwg E:\Users\jg...



2015-12-15 P:\gis\Projects\donana\donana\GIS\MXD\201511\Fig 4 SouthRegionAq\_Pot\_201511.mxd EA-Dallas mullen



- LEGEND:**
- Drain Crossing Location
  - Discharge Plan Well with Water Elevation (Feet Above Mean Sea Level)
  - Abatement Plan Well With Water Elevations (Feet Above Mean Sea Level)
  - Potentiometric Contour
  - - - Potentiometric Contour - Assumed
  - Land Owned by Dairies
  - Public Land Survey System

400 200 0 400  
 FEET  
 SCALE 1:9,000 1" = 750 FT  
 WHEN PRODUCED AT 11X17IN

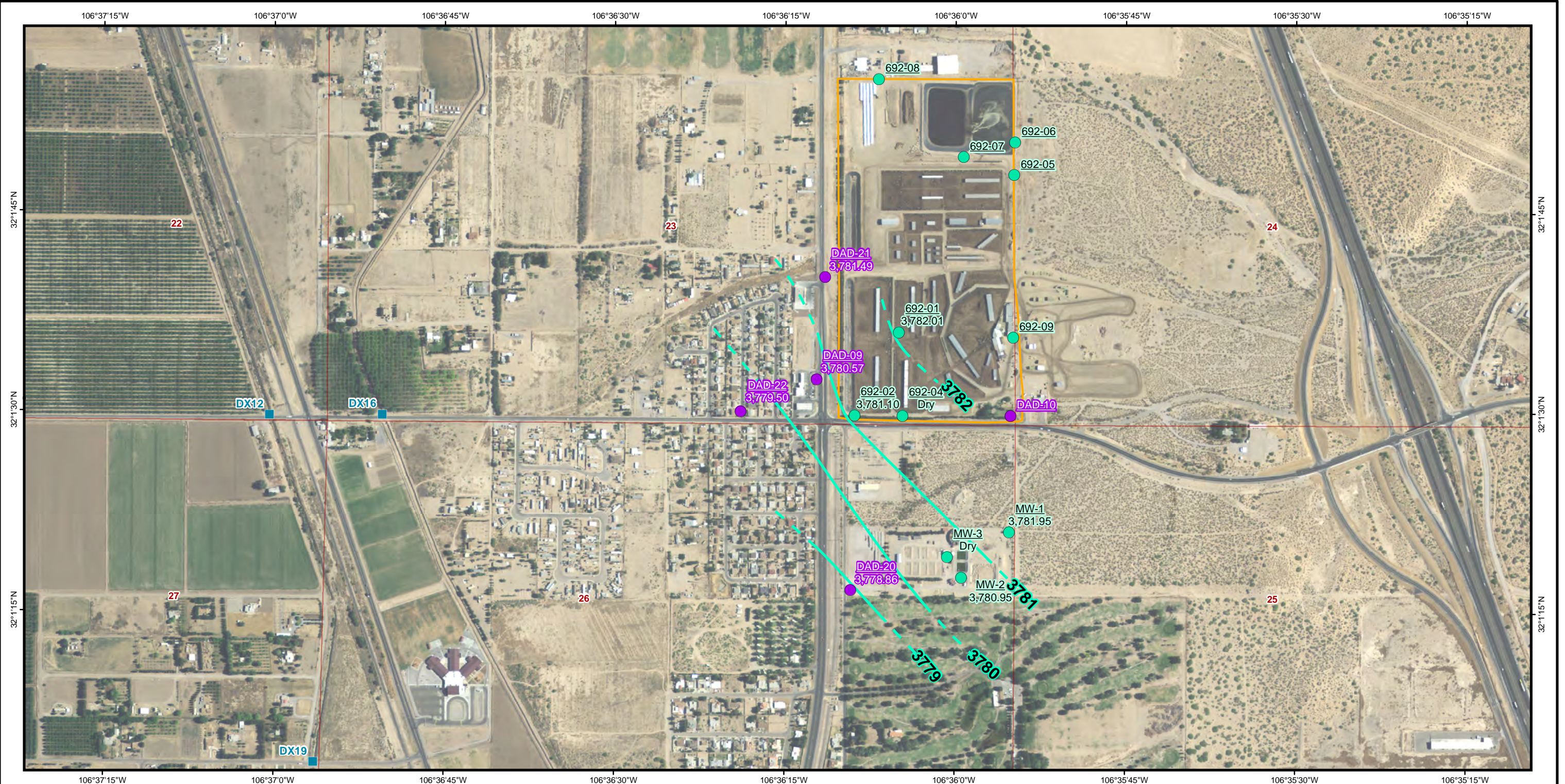


**REFERENCES**  
 Aerial Photography: NAIP, 2011  
 PLSS: BLM, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)

<b>DOÑA ANA DAIRIES MESQUITE, NEW MEXICO</b>			
<b>POTENTIOMETRIC SURFACE MAP, NOVEMBER 2015, SOUTHERN PORTION REGIONAL AQUIFER</b>			
	PROJECT No. 1464103		Fig 4 SouthRegionAq_Pot.mxd
	DESIGN	NA	SCALE AS SHOWN
	GIS	RMM	REV 0
	CHECK		
	REVIEW		
			<b>FIGURE 4</b>



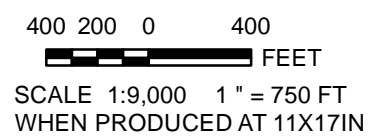
2015-12-15 P:\gis\Projects\donna ana\Dallas\_GIS\MXD\201511\Fig 5 SouthPerchAq\_Pot\_201511.mxd EA-Dallas rmullen



**LEGEND:**

- Drain Crossing Location
- Discharge Plan Well With Water Elevations (Feet MSL)
- Abatement Plan Well With Water Elevations (Feet MSL)
- Potentiometric Contour
- - - Potentiometric Contour - Assumed
- Land Owned by Dairies
- Public Land Survey System

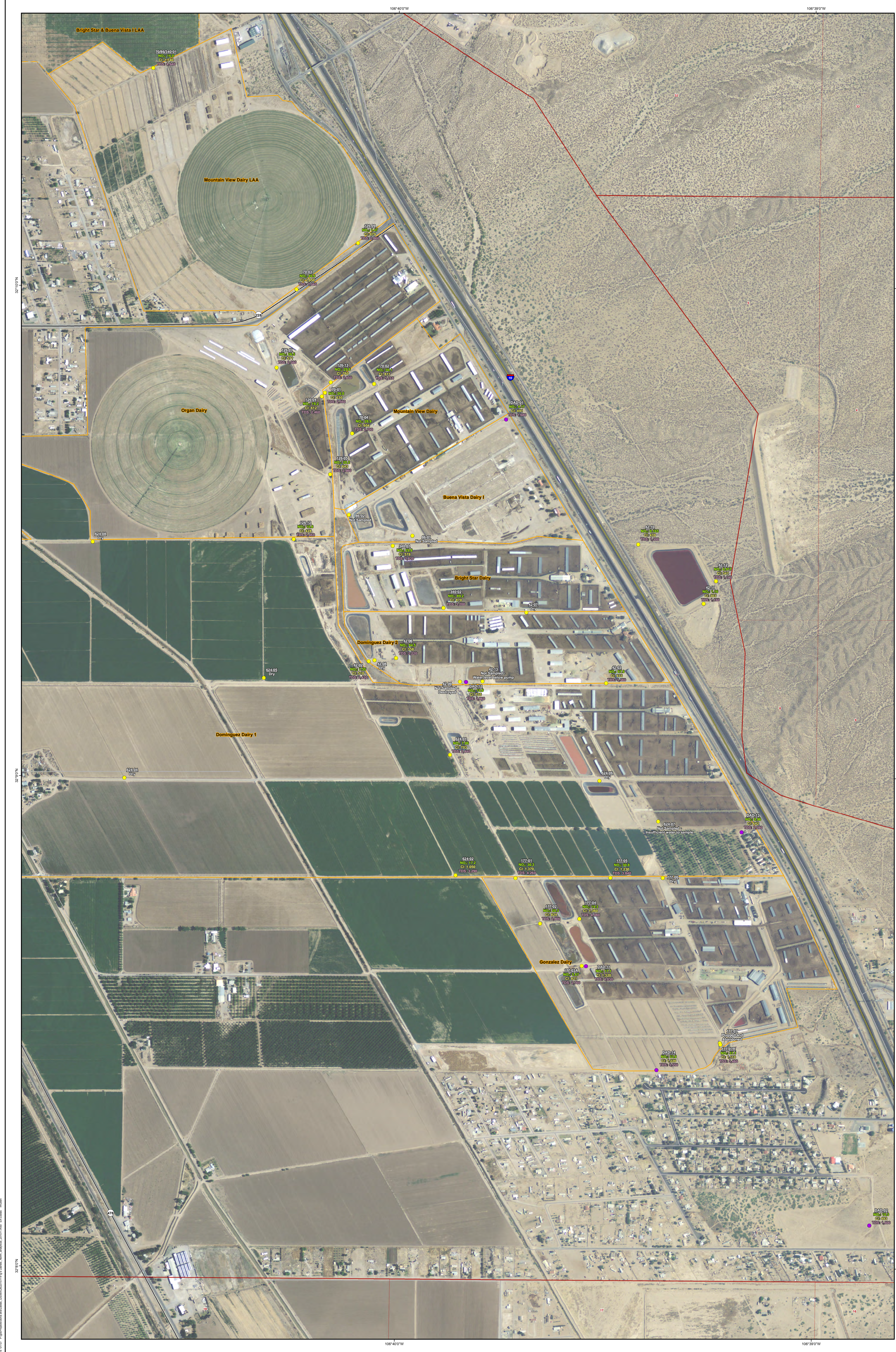
**Note:**  
\* = Not used in contouring.



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

<b>PROJECT</b>			
<b>DOÑA ANA DAIRIES MESQUITE, NEW MEXICO</b>			
<b>TITLE</b>			
<b>POTENTIOMETRIC SURFACE MAP, NOVEMBER 2015, SOUTHERN PORTION PERCHED AQUIFER</b>			
	PROJECT No. 1464103		Fig 5 SouthPerchAq_Pot.mxd
	DESIGN	NA	SCALE AS SHOWN
	GIS	RMM	REV 0
	CHECK		
REVIEW			
			<b>FIGURE 5</b>



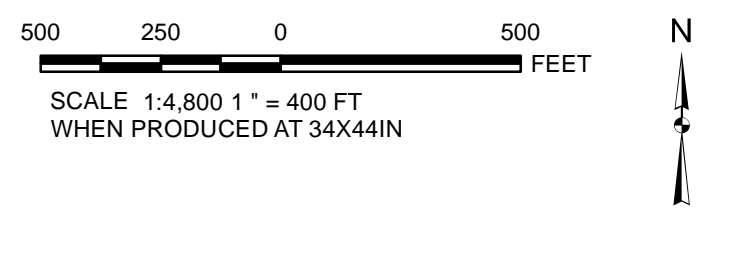


**LEGEND:**

- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells
- Interstate Highway
- State Highway
- Other Road
- Land Owned by Dairies
- Land Application on Non-Dairy Property
- Public Land Survey System

**Notes:**  
 Units are in milligrams per liter.  
 Cl = Chloride  
 NO<sub>3</sub> = Nitrate as N  
 TDS = Total Dissolved Solids

**REFERENCES**  
 Roads: Doña Ana County, 2001  
 Aerial Photography: NAIP, 2011  
 F.S.S. 84M, 2000  
 Projection: State Plane NAD 83 New Mexico Central (feet)



**DOÑA ANA DAIRIES  
 MESQUITE, NEW MEXICO**

**GROUND WATER ANALYTICAL RESULTS,  
 NOVEMBER/DECEMBER 2015,  
 NORTHERN PORTION**

PROJECT	DOÑA ANA DAIRIES	NOVEMBER/DECEMBER 2015
CLIENT	DOÑA ANA DAIRIES	NOVEMBER/DECEMBER 2015
DATE	NOVEMBER/DECEMBER 2015	NOVEMBER/DECEMBER 2015
SCALE	1:4,800	1:4,800
PROJ.	DOÑA ANA DAIRIES	NOVEMBER/DECEMBER 2015

**EA** **FIGURE 6**

2015-12-07 10:00 AM P:\Projects\2015\15-0001\15-0001.dwg User: jhughes Date: 12/07/2015 Time: 10:00 AM



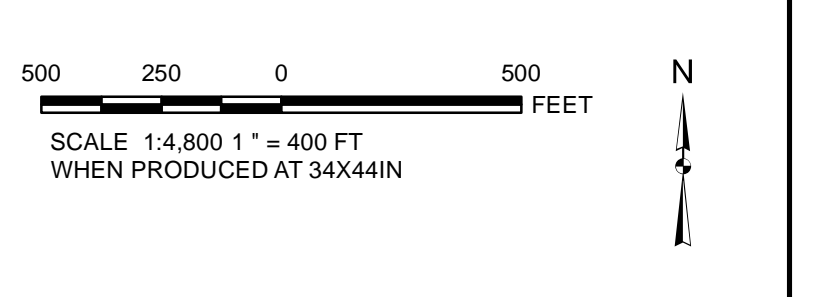


**LEGEND:**

- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells
- Interstate Highway
- State Highway
- Other Road
- Land Owned by Dairies
- Land Application on Non-Dairy Property
- Public Land Survey System

**Notes:**  
Units are in milligrams per liter.  
Cl = Chloride  
NO<sub>3</sub>-N = Nitrate as N  
TDS = Total Dissolved Solids

**REFERENCES**  
Roads: Doña Ana County, 2001  
Aerial Photography: NAIP, 2011  
PLSS: BLM, 2000  
Projection: State Plane NAD 83 New Mexico Central (feet)



PROJECT: DOÑA ANA DAIRIES  
MESQUITE, NEW MEXICO

GROUND WATER ANALYTICAL RESULTS  
NOVEMBER/DECEMBER 2015  
CENTRAL PORTION

PROJECT	DOÑA ANA DAIRIES	DATE	NOVEMBER/DECEMBER 2015
CLIENT	MESQUITE DAIRIES	SCALE	1:4,800
DATE	NOVEMBER/DECEMBER 2015	PROJ. NO.	15-001
SCALE	1:4,800	DATE	NOVEMBER/DECEMBER 2015
PROJ. NO.	15-001	SCALE	1:4,800
DATE	NOVEMBER/DECEMBER 2015	PROJ. NO.	15-001

EA **FIGURE 7**

2015-11-10 10:00 AM P:\Projects\15-001\15-001\_01.dwg





**LEGEND:**

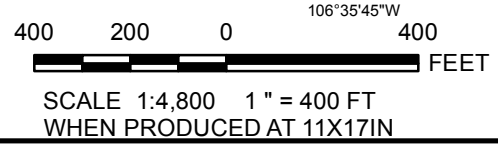
- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells
- Land Owned by Dairies
- Public Land Survey System

**Notes:**  
Units are in milligrams per liter.

Cl = Chloride  
NO<sub>3</sub> = Nitrate as N  
TDS = Total Dissolved Solids

**REFERENCES**

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



<b>PROJECT</b>			
<b>DOÑA ANA DAIRIES MESQUITE, NEW MEXICO</b>			
<b>TITLE</b>			
<b>GROUNDWATER ANALYTICAL RESULTS NOVEMBER/DECEMBER 2015, SOUTHERN PORTION, REGIONAL AQUIFER</b>			
	PROJECT No. 1464103.0006	Fig8SouthRegionAq_Analytical.mxd	
	DESIGN NA	SCALE AS SHOWN	REV 0
	GIS RM		
	CHECK		
REVIEW			<b>FIGURE 8</b>





**LEGEND:**

- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells
- Land Owned by Dairies
- Public Land Survey System

**Notes:**  
Units are in milligrams per liter.

Cl = Chloride  
NO<sub>3</sub> = Nitrate as N  
TDS = Total Dissolved Solids

**REFERENCES**

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

400 200 0 400  
SCALE 1:4,800 1" = 400 FT  
WHEN PRODUCED AT 11X17IN

PROJECT			
<b>DOÑA ANA DAIRIES MESQUITE, NEW MEXICO</b>			
TITLE			
<b>GROUNDWATER ANALYTICAL RESULTS NOVEMBER/DECEMBER 2015, SOUTHERN PORTION, PERCHED AQUIFER</b>			
	PROJECT No. 1464103.0006	deloro_analytical_perched200908.mxd	
	DESIGN NA	SCALE AS SHOWN	REV 0
	GIS RM		
	CHECK		
REVIEW			FIGURE 9



**APPENDIX A  
SAMPLING FIELD FORMS  
(Electronic Format – CD)**

**ATTACHMENT D**  
**MONITOR WELL FLUID GAUGING FIELD FORM**  
**DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Northing <sup>a</sup>	Easting <sup>a</sup>	Date	Time	Depth to Water (ft) <sup>b</sup>	Notes or Total Depth (ft) <sup>b</sup>
<b>NORTHERN AREA</b>						
<b>Northern Land Application Area (DP-340)</b>						
70-03	424580.78	1510233.88	11-6	7:37	58.03	61.24
70/86/340-01	427320.92	1508461.05	↓	7:32	51.02	67.72
86/340-01	432021.33	1503216.90	↓	7:24	57.83	70.02
<b>Del Norte Dairy (DP-126)</b>						
126-04	423258.23	1510546.24	11-5	8:08	36.51	38.20
126-05	422293.26	1510649.84		8:19	28.8	31.51
126-07	423613.62	1509986.47		8:03	36.44	39.12
126-09	425154.15	1510994.31		8:24	79.27	82.55
126-12	421492.11	1510198.45		8:14	24.05	29.9
126-13	423431.96	1510657.41	↓	7:58	43.55	58.83
<b>Mountain View Dairy (DP-70)</b>						
70-01	423303.43	1510585.63	11-6	7:54	38.07	46.57
70-02	423412.73	1511192.51	↓	<del>7:44</del> 7:44	47.58	46.63
70-04			↓	7:45	36.17	47.85
<b>Buena Vista Dairy I (DP-86) - GAUGE ONLY</b>						
86-01	421534.62	1511667.76	11-5	8:41	51.43	54.38
86-02	421792.08	1510881.53	11-5	8:30	33.87	48.50
<b>Bright Star Dairy (DP-340)</b>						
340-01	421410.13	1511423.42	11-6	8:01	44.6	48.03
340-02	420641.08	1512051.57	11-6	8:07	56.01	56.8
<b>Gonzalez Dairy (DP-177)</b>						
177-01	417300.94	1512942.63	11-5	9:17	20.22	25.26
177-02	416738.21	1513246.51		9:19	20.88	25.27
177-03A	416211.35	1513814.71		9:09	22.68	35.16
177-04	416796.99	1513733.28		9:13	26.89	46.20
177-05	417302.42	1514116.55		9:05	38.9	48.79
177-06	417301.84	1514765.63		9:00	DRY	51.70
177-07R	415258.95	1515471.64	✓	9:21	47.57	54.10
<b>Dominguez 2 Dairy (DP-42)</b>						
42-02	419982.45	1511126.19	11-5	10:42	21.75	65.3 Pump
42-03	419710.55	1514064.35		10:50	85.63	97.1
42-06	420021.61	1511465.15		10:30	35.37	41.5
42-07	420584.80	1513076.66		10:54	DRY	75.5
42-08	419994.93	1511197.91		10:46	DRY	35.0
42-09	419729.17	1512255.76		10:53	NA	58.2
42-10	421426.39	1514460.40		11:27	116.29	123.5
42-11	420693.98	1515270.32		11:16	126.8	133.5
42-12	420972.09	1515423.88		11:21	133.16	139.4
42-13	419734.06	1512534.42	✓	10:55	59.28	67.5 ✓

**ATTACHMENT D**  
**MONITOR WELL FLUID GAUGING FIELD FORM**  
**DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Northing <sup>a</sup>	Easting <sup>a</sup>	Date	Time	Depth to Water (ft) <sup>b</sup>	Notes or Total Depth (ft) <sup>b</sup>	
<b>Dominguez Dairy (DP-624)</b>							
624-01	418826.21	1512131.46	11-5	9:56	29.23	46.68	
624-02	417335.25	1512201.42		10:00	20.82	37.29	
624-04	418542.24	1508104.07		10:05	DRY	17.49	
624-05	419777.52	1509829.65		10:11	DRY	17.41	
624-06	418502.42	1513981.08		10:25	DRY	52.24	
624-07	418012.23	1514707.77		10:21	55.6	55.69	
624-08	421461.78	1507712.04		V	10:16	DRY	11.39
<b>CENTRAL AREA</b>							
<b>Buena Vista Dairy II (DP-74)</b>							
74-01	405434.93	1519310.15	11-5	11:34	36.63	45.10	
74-02	404574.08	1519035.52		11:39	17.16	20.11	
74-03	407163.61	1516711.72		11:44	16.10	20.07	
74-04	405488.65	1519864.48		11:55	49.03	57.81	
74-05	404747.71	1519885.30		V	12:03	42.0	56.92
<b>River Valley Dairy (DP-167)</b>							
167-01	402518.37	1518459.71	11-5	12:25	17.3	107.00 gauge only/do not sample	
167-01A	402518.18	1518936.72		12:30	17.51	25.12	
167-02	402498.30	1519354.81		12:34	18.7	21.03	
167-03	402981.73	1519415.73		12:39	23.96	40.79	
167-04	402032.19	1519884.60		12:43	26.23	30.19	
167-05	397947.44	1520446.03		12:54	16.96	21.48	
167-06	404479.35	1519603.88		12:16	31.73	36.63	
167-07	402562.23	1518480.34		12:21	17.4	24.92	
167-08	399352.96	1519889.65		NA	NA	Destroyed	
167-09	398473.95	1519259.34	V	12:49	17.28	19.73	
<b>Big Sky Dairy (DP-833)</b>							
833-01	399617.23	1521136.33	11-5	13:02	DRY	36.32	
833-02	401200.32	1520639.92		13:53	35.48	57.68	
833-03	401392.09	1521955.23		13:12	DRY	62.73	
833-04	402898.52	1520659.33		13:39	43.92	53.63	
833-05	399712.39	1522374.73		13:24	66.28	73.40	
833-06	402219.48	1522652.04		13:44	76.11	85.08	
833-07	399298.80	1522082.75		13:19	61.95	73.40	
833-08	400535.64	1521938.23		13:07	61.33	72.88	
833-09	398280.67	1520918.52		13:34	27.98	39.35	
833-10	396715.89	1520283.60		V	13:30	22.8	36.92
<b>Sunset/Desert Land Dairy (DP-257)</b>							
257-01	395856.31	1520572.16	11-6	8:53	22.99	25.83	
257-02	394728.34	1521030.29		8:40	17.65	20.68	
257-03	397935.69	1518746.14		9:10	13.96	13.96	
257/260-01	397678.36	1519948.22	V	9:22	12.85	20.17	

**ATTACHMENT D**  
**MONITOR WELL FLUID GAUGING FIELD FORM**  
**DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

481237

Monitoring Well	Northing <sup>a</sup>	Easting <sup>a</sup>	Date	Time	Depth to Water (ft) <sup>b</sup>	Notes or Total Depth (ft) <sup>b</sup>
<b>SOUTHERN AREA</b>						
<b>Del Oro Dairy (DP-692)</b>						
692-01	373615.88	1531529.38		12:28	62.12	69.6
692-02	372984.72	1531192.10		12:19	59.74	66.64
692-04	372982.53	1531555.21		12:15	dry	61.99
692-05	374807.26	1532403.00		12:51	81.13	88 Pump
692-06	375054.77	1532411.83		12:45	82.92	90.13
692-07	374944.88	1532019.81		12:40	74.81	80 Pump
692-08	375535.69	1531378.09		12:35	68.6	80 Pump
692-09	373575.83	1532395.09		12:56	84.47	80 Pump
<b>ADDITIONAL WELLS AND DRAIN CROSSINGS (DAD)</b>						
Bruce1	388741.02	1523777.06	3808.92		NA	
Bruce2	NM	NM	NM		NA	Destroyed
<b>Anthony Waste Water Treatment Plant (DAD)</b>						
MW-1	372097.86	1532364.36				
MW-2	NM	NM				
MW-3	NM	NM				
<b>ABATEMENT PLAN MONITOR WELLS</b>						
DAD-01	422970.59	1512825.76	11-6	9:45	73.0	76.16
DAD-02	413002.98	1517319.93		9:51	67.21	68.07
DAD-03	407721.31	1516497.85		9:59	13.2	15.05
DAD-04	404576.66	1517413.28		10:06	15.98	18.44
DAD-05	396712.87	1519102.06		10:22	16.57	23.33
DAD-06	404273.19	1522081.00		10:30	DRY	83.46
DAD-07	399270.18	1524320.88		11:39	92.59	100.63
DAD-08	395287.38	1522575.07		11:11	53.04	55.65
DAD-09	373259.30	1530905.70		12:03	57.46	61.40
DAD-10	372980.55	1532375.33		11:54	83.8	94.36
DAD-11				10:52	22.92	47.34
DAD-12				11:06	52.77	82.28
DAD-13				10:46	86.4	92.77
DAD-14				11:00	30.54	42.44
DAD-15				10:39	96.08	109.44
DAD-16				10:16	19.24	32.62
DAD-17				11:24	22.95	38.21
DAD-18				11:18	24.35	56.92
DAD-19				9:30	64.78	99.16
DAD-20				<del>11:18</del> 12:13	54.41	69.00
DAD-21			✓	11:59	58.13	66.49
DAD-22			✓	12:08	47.64	50.09

ATTACHMENT D  
 MONITOR WELL FLUID GAUGING FIELD FORM  
 DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

48237

Monitoring Well	Northing <sup>a</sup>	Easting <sup>a</sup>	Date	Time	Depth to Water (ft) <sup>b</sup>	Notes or Total Depth (ft) <sup>b</sup>
<b>SOUTHERN AREA</b>						
<b>Del Oro Dairy (DP-692)</b>						
692-01	373615.88	1531529.38	11-6	12:28	62.12	69.0
692-02	372984.72	1531192.10		12:19	54.74	66.64
692-04	372982.53	1531555.21		12:15	dry	61.99
692-05	374807.26	1532403.00		12:51	81.13	88 Pump
692-06	375054.77	1532411.83		12:45	82.42	90.13
692-07	374944.88	1532019.81		12:40	74.81	80 Pump
692-08	375535.69	1531378.09		12:35	68.6	80 Pump
692-09	373575.83	1532395.09	✓	12:56	84.47	80 Pump
<b>ADDITIONAL WELLS AND DRAIN CROSSINGS (DAD)</b>						
Bruce1	388741.02	1523777.06	3808.92		NA	
Bruce2	NM	NM	NM		NA	Destroyed
<b>Anthony Waste Water Treatment Plant (DAD)</b>						
MW-1	372097.86	1532364.36	11-11		61.08	62.77
MW-2	NM	NM	11-11		62.3	63.59
MW-3	NM	NM	11-11		DRY	59.02
<b>ABATEMENT PLAN MONITOR WELLS</b>						
DAD-01	422970.59	1512825.76	11-6	9:45	73.0	76.16
DAD-02	413002.98	1517319.93		9:51	67.21	68.07
DAD-03	407721.31	1516497.85		9:59	13.2	15.05
DAD-04	404576.66	1517413.28		10:06	15.98	18.44
DAD-05	396712.87	1519102.06		10:22	16.57	23.33
DAD-06	404273.19	1522081.00		10:30	DRY	83.46
DAD-07	399270.18	1524320.88		11:39	42.54	100.63
DAD-08	395287.38	1522575.07		11:11	53.04	55.65
DAD-09	373259.30	1530905.70		12:03	57.46	61.40
DAD-10	372980.55	1532375.33		11:54	83.8	94.36
DAD-11				10:52	22.92	47.74
DAD-12				11:06	52.77	82.28
DAD-13				10:46	86.4	92.77
DAD-14				11:00	30.54	42.44
DAD-15				10:39	96.08	109.44
DAD-16				10:16	19.24	32.22
DAD-17				11:24	22.95	38.21
DAD-18				11:18	24.35	56.97
DAD-19				9:30	64.78	99.16
DAD-20				<del>11:28</del> 12:13	54.41	69.00
DAD-21			✓	11:59	58.13	66.49
DAD-22			✓	12:08	47.64	50.09



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-06 Date Gauged 11-19-15  
 Site Big Sky Time Gauged 9:01  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 76.13 feet Height of Fluid Column 8.95 feet  
 Total Depth 85.08 feet Volume in Well 5.907 gallons  
 (3 Well Volumes = 17.721 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:10 11-19-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:10			19.64	3484	7.33	221.7	5.36
9:13	3	3	19.87	3606	7.32		
9:17	6	3	19.67	3569	7.33		
9:21	9	3	19.74	3573	7.32		
9:25	12	3	19.59	3564	7.32		

Actual Purge Volume 17.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:31 11-19-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-04 Date Gauged 11-19-15  
 Site Big sky Time Gauged 7:52  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 44.18 feet Height of Fluid Column 11.45 feet  
 Total Depth 53.63 feet Volume in Well 7.557 gallons  
 (3 Well Volumes = 22.671 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged ~~8:05~~ 8:05 11-19-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:05			18.20	3013	7.60	218.6	4.15
8:10	5	5	19.00	3178	7.64		
8:15	10	5	19.15	3174	7.67		
8:20	15	5	19.07	3169	7.69		

Actual Purge Volume 22.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 8:28 11-19-15 Purged/Sampled By SV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



Company Name: D&H United Solutions Fueling Solutions Phone #: 915-859-8150

Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907 Cell #: \_\_\_\_\_

Contact Person: Rosalio Guillen E-mail: rguillen@dhpump.com

Invoice to (if different from above): Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048 Project Name: George Segura 575-233-3620

Project #: 481240 Sampler Signature: [Signature]

Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	TIME
				X				X		X				11-18-15	13:51
				X				X		X					13:51
				X				X		X					9:54
				X				X		X					9:54
				X				X		X					9:08
				X				X		X					9:08
				X				X		X					10:58
				X				X		X					10:58
				X				X		X					12:44
				X				X		X					12:44
				X				X		X					12:07
				X				X		X					12:07
				X				X		X					
				X				X		X					
				X				X		X					
				X				X		X					
				X				X		X					

ANALYSIS REQUEST

MTBE 8021B/602  
BTEX 8021B/602  
TPH 418.1 / TX1005  
TX 1005 Extended (C35)  
PAH 8270C  
PAH 8270 (Low Level Analysis)  
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7  
Nitrates EPA 300  
Total Kjeldahl Nitrogen SM 4500 NORG C  
Chloride EPA 300.0  
Total Dissolved Solids SM 2540 C MOD

Turn Around Time

Hold

Relinquished By: [Signature] Date: 11-18-15 Time: 14:15

Relinquished By: [Signature] Date: 11-18-15 Time: 14:15

Received By: [Signature] Date: 11-18-15 Time: 14:15

Received at Laboratory By: [Signature] Date: 11-18-15 Time: 14:15

Lab Use Only  
Intact Y / N  
Headspace Y / N  
Temp 2.8 / 2.8  
Log-in Review \_\_\_\_\_

Remarks: CHRY-FIR

Dry Weight Basis Required [ ]  
TRRP Report Required [ ]

MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID 833-01 Date Gauged 11-18-15

Site Big Sky Time Gauged 11:05

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water \_\_\_\_\_ feet Height of Fluid Column \_\_\_\_\_ feet

Total Depth 36.32 feet Volume in Well \_\_\_\_\_ gallons

(3 Well Volumes = \_\_\_\_\_ gallons)

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GROUNDWATER SAMPLING DATA

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

DRY

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations The well is dry.

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Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-02 Date Gauged 11-18-15  
 Site Big Sky Time Gauged 13:01  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 29.49 feet Height of Fluid Column 28.19 feet  
 Total Depth 57.68 feet Volume in Well 18.6054 gallons  
 (3 Well Volumes = 55 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:12 11-18-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:12			20.52	6000	7.52	210.1	2.45
13:20	10	10	20.49	5998	7.47		
13:28	20	10	20.54	6004	7.53		
13:36	30	10	19.69	5996	7.58		

Actual Purge Volume 55 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:51 11-18-15 Purged/Sampled By dv

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft





MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-05 Date Gauged 11-18-15  
 Site Big Sky Time Gauged \_\_\_\_\_  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 62.2 feet Height of Fluid Column 11.19 feet  
 Total Depth 73.39 feet Volume in Well 7.3854 gallons  
 (3 Well Volumes = 22.15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:33 11-18-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:33			19.97	4037	7.59	190.2	3.44
9:38	5	5	23.42	4269	6.90		
9:43	10	5	23.46	4303	6.91		
9:46	13	3	22.68	4245	6.97		
9:49	16	3	22.65	4230	7.02		
9:51	19	3	22.87	4257	6.95		
9:52	20	1	23.42	4253	7.02		
9:53	21	1	23.40	4260	6.98		

Actual Purge Volume 22.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:54 11-18-15 Purged/Sampled By UV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-07 Date Gauged 11-18-15

Site Big Sky Time Gauged 8:34

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 61.77 feet Height of Fluid Column 11.63 feet

Total Depth 73.40 feet Volume in Well 7.6758 gallons

(3 Well Volumes = 23.0274 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:45 11-18-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:45			19.82	5637	6.91	222.2	2.02
8:50	5	5	21.52	5817	7.04		
8:55	10	5	21.44	5813	7.02		
9:00	15	5	21.86	5810	7.01		

Actual Purge Volume 23 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:08 11-18-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-08 Date Gauged 11-18-15

Site Big Sky Time Gauged 10:25

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 61.31 feet Height of Fluid Column 11.57 feet

Total Depth 72.88 feet Volume in Well 7.6362 gallons

(3 Well Volumes = 22.90 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:34 11-18-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:34			22.10	2932	7.29	158.7	5.05
10:39	5	5	21.27	3081	7.26		
10:44	10	5	20.83	30076	7.23		
10:49	15	5	20.30	3067	7.17		

Actual Purge Volume 23 gals. Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:58 11-18-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-09 Date Gauged 11-18-15  
 Site Big Sky Time Gauged 12:14  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 27.65 feet Height of Fluid Column 11.7 feet  
 Total Depth 39.35 feet Volume in Well 7.722 gallons  
 (3 Well Volumes = 23.16 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:20 11-18-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:20			20.26	5323	7.30	217.2	1.91
12:25	5	5	20.15	5372	7.29		
12:30	10	5	20.12	5362	7.30		
12:35	15	5	20.04	5356	7.26		

Actual Purge Volume 27.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:44 11-18-15 Purged/Sampled By JY

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-10 Date Gauged 11-18-15

Site Big Sky Time Gauged 11:20

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 22.66 feet Height of Fluid Column 14.26 feet

Total Depth 36.92 feet Volume in Well 9.416 gallons

(3 Well Volumes = 28.23 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:29 11-18-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:29			19.23	3587	7.14	210.6	2.08
11:34	5	5	18.99	3613	7.17		
11:39	10	5	19.07	3605	7.19		
11:54	15	5	19.11	3600	7.21		

Actual Purge Volume 28.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:07 11-18-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft





MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 340-02 Date Gauged 11-9-15  
 Site Bright Star Time Gauged 13:12  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 56.01 feet Height of Fluid Column .79 feet  
 Total Depth 56.8 feet Volume in Well .5214 gallons  
 (3 Well Volumes = 1.5642 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:17 11-9-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>13:17</u>			<u>22.34</u>	<u>4755</u>	<u>7.10</u>	<u>148.9</u>	<u>4.09</u>

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:23 11-9-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations Not enough water to bail only to sample.

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 340-01 Date Gauged 11-9-15  
 Site Bright Star Time Gauged 12:40

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 44.62 feet Height of Fluid Column 3.41 feet  
 Total Depth 48.03 feet Volume in Well 2.2506 gallons  
 (3 Well Volumes = 6.75 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 12:46 11-9-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:46	.25	.25	22.0	4386	7.09	115.1	1.34
12:53	2.50	2.25	21.41	4063	7.32	<del>115.1</del>	
12:59	4.75	2.25	21.34	4059	7.20		
13:05	6.75	2.00	21.27	4052	7.25		

Actual Purge Volume 6.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:05 11-9-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

**Well Casing Volumes**

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft





MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID 70/86/340-01 Date Gauged 11-10-15  
 Site Bright Star Time Gauged 8:21  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 51.02 feet Height of Fluid Column 16.7 feet  
 Total Depth 67.72 feet Volume in Well 11.022 gallons  
 (3 Well Volumes = 33.066 gallons)

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GROUNDWATER SAMPLING DATA

Time/date Purged 8:29 11-10-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:29			19.76	6642	7.18	174.5	1.91
8:38	11	11	18.75	6814	7.24		
8:47	22	11	18.61	6822	7.23		
8:56	33	11	18.52	6827	7.21		

Actual Purge Volume 33 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 8:56 11-10-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

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Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 86/340-01 Date Gauged 11-10-15  
 Site Bright Star Time Gauged 7:30

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 57.86 feet Height of Fluid Column 12.16 feet  
 Total Depth 70.02 feet Volume in Well 8.0256 gallons  
 (3 Well Volumes = 24.0768 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:40 11-10-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
7:40	8	8	19.22	2972	7.45	153.4	1.74
7:48	8	8	18.41	2966	7.52		
7:56	16	8	18.33	2957	7.54		
8:04	24	8	17.52	2951	7.55		

Actual Purge Volume 24 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 8:04 11-10-15 Purged/Sampled By SV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft





**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 74.02 Date Gauged 11-11-15  
 Site Buena Vista II Time Gauged 12:35

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 17.17 feet Height of Fluid Column 2.94 feet  
 Total Depth 20.11 feet Volume in Well 1.9404 gallons  
 (3 Well Volumes = 5.82 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 12:39 11-11-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:39			22.47	3429	7.18	194.9	.90
12:42	1	1	22.14	3347	7.19		
12:45	2	1	22.09	3330	7.27		
12:48	3	1	21.68	3322	7.32		
12:52	4	1	21.76	3315			

Actual Purge Volume 5.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:56 11-11-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft





**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 74-01 Date Gauged 11-12-15

Site Buena Vista II Time Gauged 8:20

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 36.60 feet Height of Fluid Column 8.5 feet

Total Depth 45.10 feet Volume in Well 5.61 gallons

(3 Well Volumes = 16.83 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 8:28 11-12-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:28			20.06	3753	7.34	210.6	1.06
8:31	3	3	20.01	3822	7.27		
8:34	6	3	20.12	3835	7.27		
8:38	9	3	20.21	3837	7.26		
8:41	12	3	20.15	3836	7.26		

Actual Purge Volume 16.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 8:41 11-12-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 74-03 Date Gauged 11-12-15  
 Site Berna Vista 2 Time Gauged 7:40  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 16.08 feet Height of Fluid Column 3.94 feet  
 Total Depth 20.07 feet Volume in Well 2.6334 gallons  
 (3 Well Volumes = 7.9 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 7:47 11-12-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
7:47			20.62	4540	7.24	233.4	1.11
7:52	2	2	21.74	4853	7.26		
7:58	4	2	20.37	4861	7.32		
8:03	6	2	20.28	4868	7.36		

Actual Purge Volume 7.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 8:05 11-12-15 Purged/Sampled By TJ  
 Sample Method Bail  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations Well bailed clog.

Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 74-04 Date Gauged 11-12-15

Site Boeria Vista-2 Time Gauged 8:53

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 49.02 feet Height of Fluid Column 8.79 feet

Total Depth 57.8 feet Volume in Well 5.8014 gallons

(3 Well Volumes = 17.40 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 9:07 11-12-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:07			78.25	2847	7.57	197.2	3.06
9:11	3	3	17.58	2874	7.36		
9:15	6	3		2870	7.32		
9:19	9	3		2868			

Actual Purge Volume 17.50 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:28 11-12-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-05 Date Gauged 11-12-15

Site Buena Vista 2 Time Gauged 9:40

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 42.03 feet Height of Fluid Column 14.89 feet

Total Depth 56.92 feet Volume in Well 9.8274 gallons

(3 Well Volumes = 29.4822 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:55 11-12-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:55		5	19.87	2847	7.23	214.2	1.23
10:04	10	10	20.45	2900	7.23		
10:08	15	5	20.22	2915	7.22		
10:13	20	5	20.36	2921	7.20		
10:18	25	5	20.12	2923	7.20		

Actual Purge Volume 29.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:18 11-12-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft





# TraceAnalysis, Inc.

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 3403 Industrial Blvd.  
 Hobbs, NM 88240  
 Tel (575) 392-7561  
 Fax (575) 392-4508

Address: (Street, City, Zip)

Phone #:

Fax #:

Contact Person:

E-mail:

Invoice to: (if different from above)

Project #:

Project Name:

Project Location (including state):

Sampler Signature:

ANALYSIS REQUEST  
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME	REMARKS:
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH			
200-28		1	1									11/27	1815	MTBE 8021 / 602 / 8260 / 624 BTEX 8021 / 602 / 8260 / 624 TPH 418.1 / TX1005 / TX1005 Ext(C35) TPH 8015 GRO / DRO / TVHC PAH 8270 / 625 Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260 / 624 GC/MS Semi. Vol. 8270 / 625 PCB's 8082 / 608 Pesticides 8081 / 608 BOD, TSS, pH Moisture Content Cl, F, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity Na, Ca, Mg, K, TDS, EC
200-29		1	1									11/27	1935	
200-31		1	1									11/27	1935	
200-33		1	1									11/27	1935	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST <input type="checkbox"/>	OBS <input type="checkbox"/>	COR <input type="checkbox"/>	LAB USE ONLY	REMARKS:
200-28	DWH	11/27/02	1942									
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST <input type="checkbox"/>	OBS <input type="checkbox"/>	COR <input type="checkbox"/>	LAB USE ONLY	REMARKS:
200-29	DWH	11/27/02	1942									
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST <input type="checkbox"/>	OBS <input type="checkbox"/>	COR <input type="checkbox"/>	LAB USE ONLY	REMARKS:
200-31	DWH	11/27/02	1942									
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST <input type="checkbox"/>	OBS <input type="checkbox"/>	COR <input type="checkbox"/>	LAB USE ONLY	REMARKS:
200-33	DWH	11/27/02	1942									



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Tel (575) 392-7361  
Fax (575) 392-4508

Company Name: \_\_\_\_\_  
Address: (Street, City, ZIP) \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Invoice to: (if different from above) \_\_\_\_\_  
Project #: \_\_\_\_\_  
Project Location (including state): \_\_\_\_\_

Phone #: 915-589-9182  
Fax #: \_\_\_\_\_  
E-mail: gburke@traceanalysis.com  
Project Name: 5002 BASIN ST - 5-200  
Sampler Signature: [Signature]

LAB # (LAB USE ONLY) \_\_\_\_\_  
FIELD CODE \_\_\_\_\_  
# CONTAINERS \_\_\_\_\_  
Volume / Amount \_\_\_\_\_

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE
DA001		1	200										11/27	11:50
DA002		1	200										11/27	11:50
DA003		1	200										11/27	11:50
DA004		1	200										11/27	11:50
DA005		1	200										11/27	11:50
DA006		1	200										11/27	11:50
DA007		1	200										11/27	11:50
DA008		1	200										11/27	11:50
DA009		1	200										11/27	11:50
DA010		1	200										11/27	11:50

MTBE	8021 / 602 / 8260 / 624
BTEX	8021 / 602 / 8260 / 624
TPH	418.1 / TX1005 / TX1005 Ext(C35)
TPH	8015 GRO / DRO / TVHC
PAH	8270 / 625
Total Metals	Ag As Ba Cd Cr Pb Se Hg 6010/200.7
TCLP Metals	Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles	
TCLP Semi Volatiles	
TCLP Pesticides	
RCI	
GC/MS Vol.	8260 / 624
GC/MS Semi. Vol.	8270 / 625
PCB's	8082 / 608
Pesticides	8081 / 608
BOD, TSS, pH	
Moisture Content	
Cl, F, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
Turn Around Time if different from standard	
Hold	

ANALYSIS REQUEST  
(Circle or Specify Method No.)

Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

LAB USE ONLY  
Inact.  Y  N  
HeadSpace  Y  N  NA  
REMARKS: \_\_\_\_\_  
Dry/Weight Basis Required   
TRRP Report Required   
Check If Special Reporting Limits Are Needed

Carrier # \_\_\_\_\_  
Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.  
CHART COPY

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID DAD-01 Date Gauged 11-23-15  
 Site \_\_\_\_\_ Time Gauged 10:00AM  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 72.8 feet Height of Fluid Column 3.36 feet  
 Total Depth 76.16 feet Volume in Well .5712 gallons  
 (3 Well Volumes = 1.7136 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 10:07 11-23-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:07			22.35	2441	7.45	= 7.4	4.60
10:09	.50	.50	22.67	2672	7.27		
10:11	.75	.25	22.57	2645	7.25		
10:13	1.00	.25	22.43	2640	7.23		
10:15	1.25	.25	22.29	2636	7.21		

Actual Purge Volume 1.7 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 10:18 11-23-15 Purged/Sampled By JV  
 Sample Method Bail  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_



**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID Dud-02 Date Gauged 11-23-15  
 Site \_\_\_\_\_ Time Gauged 10:22  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 67.12 feet Height of Fluid Column .95 feet  
 Total Depth 68.07 feet Volume in Well .1615 gallons  
 (3 Well Volumes = .4845 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 10:29 11-23-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:29	.25	.25	22.81	2454	7.31	<del>5.34</del> 95.5	5.28

Actual Purge Volume .25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:32 11-23-15 Purged/Sampled By AV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations The well bailed dry. Enough to collect sample and first reading.

**Well Casing Volumes**

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID Dud-03 Date Gauged 11-23-15

Site \_\_\_\_\_ Time Gauged 10:44

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 12.94 feet Height of Fluid Column 0.11 feet

Total Depth 15.05 feet Volume in Well .3587 gallons

(3 Well Volumes = 1. gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 10:48 11-23-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:48	.25	.25	21.95	3391	7.38	-47.3	1.90
10:50	.50	.25	21.67	3384	7.36		
10:52	.75	.25	21.44	3374	7.35		
10:54	1.0	.25	21.04	3365	7.33		

Actual Purge Volume 1.0 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:55 11-23-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Dad-04 Date Gauged 11-23-15  
 Site \_\_\_\_\_ Time Gauged 11:07  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 16.23 feet Height of Fluid Column 2.21 feet  
 Total Depth 18.44 feet Volume in Well 3757 gallons  
 (3 Well Volumes = 1.1271 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:10 11-23-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:10	.25	.25	20.51	2570	7.57	-22.6	1.92
11:12	.50	.25	19.66	2582	7.66		
11:14	.75	.25	19.57	2581	7.67		
11:16	1.0	.25	19.50	2587	7.68		

Actual Purge Volume 1.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 11:17 11-23-15 Purged/Sampled By JV  
 Sample Method Bail  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID Dad-05 Date Gauged 11-23-15

Site \_\_\_\_\_ Time Gauged 11:30

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 16.49 feet Height of Fluid Column 6.84 feet

Total Depth 23.33 feet Volume in Well 1.1628 gallons

(3 Well Volumes = 3.48 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 11:35 11-23-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>11:35</u>			<u>19.62</u>	<u>3043</u>	<u>7.27</u>	<u>29.8</u>	<u>1.71</u>
<u>11:38</u>	<u>1</u>	<u>1</u>	<u>19.72</u>	<u>3114</u>	<u>7.30</u>		
<u>11:41</u>	<u>2</u>	<u>1</u>	<u>19.92</u>	<u>3110</u>	<u>7.31</u>		
<u>11:43</u>	<u>3</u>	<u>1</u>	<u>19.79</u>	<u>3106</u>	<u>7.29</u>		

Actual Purge Volume 3.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:46 11-23-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft



**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID Dad-06 Date Gauged 11-23-18

Site \_\_\_\_\_ Time Gauged 12:30

Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches

Depth to Water dry feet Height of Fluid Column \_\_\_\_\_ feet

Total Depth \_\_\_\_\_ feet Volume in Well \_\_\_\_\_ gallons

(3 Well Volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
			<b>DRY</b>				

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations The well is dry.

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID Dad-10 Dad-00 Date Gauged 11-23-15  
 Site \_\_\_\_\_ Time Gauged 11:55  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 52.9 feet Height of Fluid Column 2.75 feet  
 Total Depth 55.65 feet Volume in Well .9675 gallons  
 (3 Well Volumes = 1.90 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 12:01 11-23-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>12:01</u>			<u>19.29</u>	<u>7824</u>	<u>7.17</u>	<u>95.1</u>	<u>3.73</u>
<u>12:03</u>	<u>.50</u>	<u>.50</u>	<u>20.45</u>	<u>8041</u>	<u>7.23</u>		
<u>12:05</u>	<u>.75</u>	<u>.75</u>	<u>20.38</u>	<u>8038</u>	<u>7.22</u>		
<u>12:07</u>	<u>1.0</u>	<u>.75</u>	<u>20.21</u>	<u>8036</u>	<u>7.20</u>		

Actual Purge Volume 1.50 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:06 11-23-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Dud-09 Date Gauged 11-23-15

Site \_\_\_\_\_ Time Gauged 13:12

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 57.5 feet Height of Fluid Column 3.9 feet

Total Depth 61.40 feet Volume in Well 16.63 gallons

(3 Well Volumes = 1.98 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:16 11-21-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:16			22.14	2865	7.04	127.2	2.08
13:18	.5	.5	22.01	2849	7.07		
13:20	1	.5	21.97	2841	7.02		
13:22	1.50	.5	21.88	2837	7.01		

Actual Purge Volume 2 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:23 11-23-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID Dred-2A Date Gauged 11-23-15  
 Site \_\_\_\_\_ Time Gauged 12:50  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 58.19 feet Height of Fluid Column 8.3 feet  
 Total Depth 66.49 feet Volume in Well 1.411 gallons  
 (3 Well Volumes = 4.233 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 12:55 11-23-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:55			21.42	3147	7.24	122.1	4.52
12:58	1	1	21.36	3163	7.21		
13:01	2	1	21.13	3169	7.19		
13:04	3	1	21.19	3174	7.17		

Actual Purge Volume 4.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 13:08 11-23-15 Purged/Sampled By JV  
 Sample Method Bail  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft



**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID Dad-22 Date Gauged 11-23-15  
 Site \_\_\_\_\_ Time Gauged 13:30  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 47.63 feet Height of Fluid Column 2.46 feet  
 Total Depth 50.09 feet Volume in Well .4182 gallons  
 (3 Well Volumes = 1.25 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 13:34 11-23-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:34			22.16	2913	7.28	126.0	3.95

Actual Purge Volume 1.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 13:35 11-23-15 Purged/Sampled By JV  
 Sample Method Bail  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations The well bailed dry.

Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft





MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Dad-10 Date Gauged 11-24-15  
 Site \_\_\_\_\_ Time Gauged 13:14  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 82.97 feet Height of Fluid Column 11.34 feet  
 Total Depth 94.36 feet Volume in Well 1.9363 gallons  
 (3 Well Volumes = 5.8089 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:18 11-24-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:18			22.01	2401	7.40	81.6	2.13
13:22	1	1	21.54	2377	7.41		
13:27	2	1	21.48	2336	7.39		
13:31	3	1	21.29	2275	7.39		
13:35	4	1	21.20	2267	7.38		
13:39	5	1	21.32	2259	7.37		

Actual Purge Volume 6 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:41 11-24-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Dad-11 Date Gauged 11-24-15

Site \_\_\_\_\_ Time Gauged 11:30

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 23.64 feet Height of Fluid Column 24.3 feet

Total Depth 47.34 feet Volume in Well 16.638 gallons

(3 Well Volumes = 48.114 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:42 11-24-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:42			21.84	4491	7.11	151.2	1.25
11:46	5	5	21.95	6065	7.10		
11:50	10	5	22.26	6128	7.22		
11:54	15	5	21.39	6110	7.33		
11:58	20	5	22.11	6090	7.24		
12:03	25	5	22.19	6100	7.23		
12:07	30	5	22.14	6105	7.22		

Actual Purge Volume 50 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:26 11-24-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Dad-12 Date Gauged 11-24-15  
 Site \_\_\_\_\_ Time Gauged 10:32

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 59.83 feet Height of Fluid Column 29.45 feet  
 Total Depth 82.28 feet Volume in Well 5.0065 gallons  
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:37 11-24-15 Purged Method \_\_\_\_\_ Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:37			22.61	4233	7.09	106.3	1.67
10:43	3	3	22.41	4193	7.29		
10:48	6	3	22.29	4203	7.26		
10:54	9	3	22.34	4205	7.20		

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Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:08 11-24-15 Purged/Sampled By CV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID Dad-13 Date Gauged 11-24-15  
 Site \_\_\_\_\_ Time Gauged 9:56

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 86.27 feet Height of Fluid Column 6.5 feet  
 Total Depth 92.77 feet Volume in Well 1.105 gallons  
 (3 Well Volumes = 3.315 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 10:06 11-24-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:06			23.43	3306	7.05	126.5	1.54
10:40	1	1	23.11	3292	7.08		
10:44	2	1	23.01	3300	7.02		
10:18	3	1	22.97	3306	7.01		

Actual Purge Volume 3.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:20 11-24-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft



**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID Dad-14 Date Gauged 11-24-15  
 Site \_\_\_\_\_ Time Gauged 12:38

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 30.54 feet Height of Fluid Column 11.9 feet  
 Total Depth 42.44 feet Volume in Well 2.023 gallons  
 (3 Well Volumes = 6.069 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 12:42 11-24-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:42			21.86	5354	7.49	139.1	2.60
12:46	1	1	21.70	5295	7.64		
12:49	2	1	21.17	5268	7.68		
12:52	3	1	21.11	5249	7.57		
12:56	4	1	21.02	5242	7.56		

Actual Purge Volume 6 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:01 11-24-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Dad-15 Date Gauged 11-24-15  
 Site \_\_\_\_\_ Time Gauged 9:21

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 96.15 feet Height of Fluid Column 13.26 feet  
 Total Depth 109.44 feet Volume in Well 2.2593 gallons  
 (3 Well Volumes = 6.7779 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:27 11-24-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:27			22.54	2607	7.15	171.1	3.36
9:31	1	1	21.03	2586	7.17		
9:36	2	1	22.56	2643	7.24		
9:40	3	1	22.31	2635	7.23		
9:44	4	1	22.17	2630	7.22		

Actual Purge Volume 6.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:53 11-24-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Dad-20 Date Gauged 11-24-15  
 Site \_\_\_\_\_ Time Gauged 13:40

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 54.26 feet Height of Fluid Column 14.72 feet  
 Total Depth 69.0 feet Volume in Well 2.5024 gallons  
 (3 Well Volumes = 7.5072 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:52 11-24-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:52			22.49	3437	7.27	157.1	4.67
13:56	1	1	22.32	3455	7.32		
13:59	2	1	22.18	3456	7.31		
14:02	3	1	22.11	3456	7.33		

Actual Purge Volume 7.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 14:11 11-24-15 Purged/Sampled By JV  
 Sample Method Bail  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft





MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Dad-07 Date Gauged 11-30-15  
 Site \_\_\_\_\_ Time Gauged 9:18  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 92.7 feet Height of Fluid Column 7.93 feet  
 Total Depth 100.63 feet Volume in Well 1.3481 gallons  
 (3 Well Volumes = 4.00 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:24 11-30-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:24			21.41	3038	7.02	257.1	4.65
9:28	1	1	21.27	3101	7.11		
9:33	2	1	21.35	3095	7.10		
9:38	3	1	21.59	3088	7.09		

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:42 11-30-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Dact-16 Date Gauged 11-30-15  
 Site \_\_\_\_\_ Time Gauged 11:27

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 18.78 feet Height of Fluid Column 13.84 feet  
 Total Depth 32.62 feet Volume in Well 2.3520 gallons  
 (3 Well Volumes = 7.0 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:31 11-30-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:31			19.43	3442	7.36	229.8	2.81
11:34	1	1	18.94	3428	7.36		
11:36	2	1	18.69	3427	7.35		
11:38	3	1	18.55	3424	7.34		

Actual Purge Volume 7 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:45 11-30-15 Purged/Sampled By SV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID Dad-17 Date Gauged 11-30-15

Site \_\_\_\_\_ Time Gauged 10:54

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 22.13 feet Height of Fluid Column 16.08 feet

Total Depth 38.21 feet Volume in Well 2.7336 gallons

(3 Well Volumes = 8.2008 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 10:59 11-30-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:59			20.11	1771	7.47	226.0	2.78
11:01	1	1	19.82	1703	7.41		
11:03	2	1	19.36	1670	7.43		
11:05	3	1	19.16	1630	7.44		
11:07	4	1	19.18	1626	7.45		
11:09	5	1	19.06	1621	7.46		
	<del>6</del>						

Actual Purge Volume 8.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:14 11-30-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

**Well Casing Volumes**

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID Dad-18 Date Gauged 11-30-15

Site \_\_\_\_\_ Time Gauged 10:21

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 24.4 feet Height of Fluid Column 32.62 feet

Total Depth 56.92 feet Volume in Well 5.5284 gallons

(3 Well Volumes = 16.58 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 10:28 11-30-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:28		3	18.99	3872	7.22	239.5	2.89
10:32	3	3	17.98	3788	7.26		
10:36	6	3	18.05	3784	7.24		
10:40	9	3	18.11	3781	7.23		

Actual Purge Volume 16.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:48 11-30-15 Purged/Sampled By sv

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Dud-19 Date Gauged 11-30-15  
 Site \_\_\_\_\_ Time Gauged 9:50  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 64.67 feet Height of Fluid Column 34.49 feet  
 Total Depth 99.16 feet Volume in Well 5.8633 gallons  
 (3 Well Volumes = 17.5899 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:56 11-30-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:56			21.68	4716	7.08	248.2	3.07
10:00	3	3	21.20	4722	7.10		
10:04	6	3	21.17	4725	7.11		
10:08	9	3	21.11	4728	7.12		
<del>10:10</del> 10:12	12	3	21.08	4730	7.13		

Actual Purge Volume 17 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:17 Purged/Sampled By Pump JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft





MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 69201 Date Gauged 12-2-15  
 Site Del Oro Time Gauged 12:18  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 62.93 feet Height of Fluid Column 6.67 feet  
 Total Depth 69.0 feet Volume in Well 4.0062 gallons  
 (3 Well Volumes = 12.01 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12-25 12-2-15 Purged Method Ball

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:25			20.60	3575	6.92	157.5	1.43
12:28	2	2	21.12	3561	6.93		
12:31	4	2	20.91	3556	6.94		
12:34	6	2	20.70	3550	6.95		

Actual Purge Volume 12 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:42 12-2-15 Purged/Sampled By JV

Sample Method Ball

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-02 Date Gauged 12-2-15  
 Site Del Oro Time Gauged 11:43  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 60.44 feet Height of Fluid Column 6.2 feet  
 Total Depth 66.64 feet Volume in Well 4.092 gallons  
 (3 Well Volumes = 12.276 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:47 12-2-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:47			21.23	4710	6.98	163.4	1.61
11:50	2	2	20.73	4828	6.90		
11:53	4	2	20.61	4811			
11:57	6	2	20.55	4808			
12:00	8	2	20.76	4801			

Actual Purge Volume 12.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:06 12-2-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

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**FLUID LEVEL DATA**

Well ID 692-04 Date Gauged 12-2-15  
 Site Del Oro Time Gauged 8:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water dry feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth 61.99 feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

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**GROUNDWATER SAMPLING DATA**

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

*DRY*

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_  
 Sample Method \_\_\_\_\_  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations The well is dry.

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**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID LA2-09 Date Gauged 12-2-15

Site Del Oro Time Gauged 10:47

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 81.63 feet Height of Fluid Column 6.37 feet

Total Depth 88.0 feet Volume in Well 4.2042 gallons

(3 Well Volumes = 12.426 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 10:52 12-2-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:52			17.32	1895	7.73	2429	13.45
10:54	2	2	18.22	2132	7.67		
10:56	4	2	18.45	2123	7.64		
10:58	6	2	18.67	2127	7.56		

Actual Purge Volume 8 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:02 12-2-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations The well pumped dry at 8 gallons.

**Well Casing Volumes**

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 69206 Date Gauged 12-1-15

Site Del Oro Time Gauged 10:10

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 83.48 feet Height of Fluid Column 6.65 feet

Total Depth 90.13 feet Volume in Well 4.389 gallons

(3 Well Volumes = 13.167 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:17 12-1-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:17			20.25	2095	7.26	95.2	2.17
10:20	2	2	20.66	2156	7.35		
10:23	4	2	20.71	2150	7.33		
10:26	6	2	20.76	2147	7.31		

Actual Purge Volume 13.0 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:31 12-1-15 Purged/Sampled By av

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID 692-07 Date Gauged 12-2-15  
 Site Del Oro Time Gauged 8:38

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 75.13 feet Height of Fluid Column 4.87 feet  
 Total Depth 80 feet Volume in Well 3.2142 gallons  
 (3 Well Volumes = 9.6426 gallons)

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GROUNDWATER SAMPLING DATA

Time/date Purged 8:49 12-2-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:49			15.12	2072	7.44	245.8	7.20
8:51	2	2	17.23	2202	7.63		
8:53	4	2	17.37	2193	7.65		
8:55	6	2	17.55	2189	7.68		

Actual Purge Volume 7 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 8:59 12-2-15 Purged/Sampled By JV  
 Sample Method Pump  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations The well pumped dry at about 7 gallons.

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Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-08 Date Gauged 12-1-15

Site Del Oro Time Gauged 9:15

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 68.84 feet Height of Fluid Column 11.16 feet

Total Depth 80.0 feet Volume in Well 7.3656 gallons

(3 Well Volumes = 22.0968 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:20 12-1-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:20			16.73	1636	7.77	234.2	8.14
9:22	2	2	20.54	1994	7.44		
9:24	4	2	19.96	2017	7.32		
9:26	6	2	20.83	2015	7.31		
9:28	8	2	20.67	2009	7.30		

Actual Purge Volume 12 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:33 12-1-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations The well pumped dry at about 12 gallons

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 692-09 Date Gauged 12-2-15

Site Del Oro Time Gauged 11:16

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 84.95 feet Height of Fluid Column 5.05 feet

Total Depth 90 feet Volume in Well 3.333 gallons

(3 Well Volumes = 9.999 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 11:21 12-2-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:21			17.20	1893	7.72	155.9	8.02
11:23	1	1	18.32	2038	7.68		
11:25	2	2	18.41	2020	7.67		
11:27	3	3	18.67	2018	7.66		
11:29	4	4	18.78	2015	7.65		

Actual Purge Volume 7 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:33 12-2-15 Purged/Sampled By or

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations The well pumped dry at about 7 gallons

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft







MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-02 Date Gauged 12-1-15

Site Dominquez II Time Gauged 8:57

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 29.63 feet Height of Fluid Column 35.67 feet

Total Depth 65.3 feet Volume in Well 23.5422 gallons

(3 Well Volumes = 70.6266 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:04 12-1-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:04			14.53	2692	7.74	262.0	7.41
9:06	10	10	18.26	3308	7.39		
9:08	20	10	19.20	3387	7.33		
9:10	30	10	19.70	3435	7.31		
9:12	35	5	19.73	3429	7.35		
9:14	40	5	19.70	3424	7.32		

Actual Purge Volume 70.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:19 12-1-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-03 Date Gauged 12-1-15  
 Site Dominquez II Time Gauged 10:28  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 86.2 feet Height of Fluid Column 10.9 feet  
 Total Depth 97.1 feet Volume in Well 7.194 gallons  
 (3 Well Volumes = 21.582 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:32 12-1-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:32			19.0	4581	7.37	149.8	5.68
10:34	2	2	20.67	4791	7.33		
10:36	4	2	20.49	4767	7.32		
10:38	6	2	20.36	4744	7.29		
10:40	8	2	20.42	4741	7.23		
10:42	10	2	20.46	4736	7.21		

Actual Purge Volume 21.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:50 12-1-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Do 42-06 Date Gauged 12-1-15

Site Dominquez Time Gauged 9:29

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 36.32 feet Height of Fluid Column 5.18 feet

Total Depth 41.5 feet Volume in Well 3.4188 gallons

(3 Well Volumes = 10.2564 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:33 12-1-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:33			18.08	2711	7.83	188.1	6.21
9:35	1	1	18.46	3051	7.74		
9:37	2	1	18.55	3047	7.69		
9:39	3	1	18.65	3042	7.68		

Actual Purge Volume 10.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:45 12-1-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID 42-07 Date Gauged 12-1-15

Site Dominique II Time Gauged 9:56

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water dry feet Height of Fluid Column \_\_\_\_\_ feet

Total Depth 75.5 feet Volume in Well \_\_\_\_\_ gallons

(3 Well Volumes = \_\_\_\_\_ gallons)

---

GROUNDWATER SAMPLING DATA

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations The well is dry.

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Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID 42-08 Date Gauged 12-1-15

Site Dominquez #1 Time Gauged 8:38

Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches

Depth to Water dry feet Height of Fluid Column \_\_\_\_\_ feet

Total Depth 35.0 feet Volume in Well \_\_\_\_\_ gallons

(3 Well Volumes = \_\_\_\_\_ gallons)

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GROUNDWATER SAMPLING DATA

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

DRY

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations The well is dry.

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Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



**MONITOR WELL DEVELOPMENT FIELD FORM**

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**FLUID LEVEL DATA**

Well ID 42-09 Date Gauged 12-1-15

Site Dominquez II Time Gauged \_\_\_\_\_

Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches

Depth to Water NA feet Height of Fluid Column \_\_\_\_\_ feet

Total Depth 58.2 feet Volume in Well \_\_\_\_\_ gallons

(3 Well Volumes = \_\_\_\_\_ gallons)

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**GROUNDWATER SAMPLING DATA**

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations The well is currently destroyed.

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Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 42-10 Date Gauged 12-1-15  
 Site Dominquez II Time Gauged 12:22  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 116.7 feet Height of Fluid Column 6.8 feet  
 Total Depth 123.5 feet Volume in Well 4.488 gallons

(3 Well Volumes = 13.464 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:27 12-1-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	Do FDS (mg/L)
12:27			21.69	2099	7.75	167.4	7.37
12:29	2	2	22.06	2232	7.51		
12:31	4	2	22.27	2238	7.48		
12:33	6	2	22.17	2222	7.46		

Actual Purge Volume 13.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:41 12-1-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-11 Date Gauged 12-1-15

Site Dominguez II Time Gauged 11:24

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 127.21 feet Height of Fluid Column 6.29 feet

Total Depth 133.5 feet Volume in Well 4.1514 gallons

(3 Well Volumes = 12.4542 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:29, 12-1-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:29			21.72	1824	7.67	1405	6.89
11:31	2	2	24.92	1905	7.56		
11:33	4	2	24.81	1899	7.52		
11:35	6	2	24.59	1892	7.49		

Actual Purge Volume 10 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:39 12-1-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations The well pumped dry at 10 gallons.

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 42-10 Date Gauged 12-1-15  
 Site Dominion # Time Gauged 11:54  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 133.57 feet Height of Fluid Column 5.83 feet  
 Total Depth 139.4 feet Volume in Well 3.8470 gallons  
 (3 Well Volumes = 11.54 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:58 12-1-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO TDS (mg/L)
11:58			20.83	1782	8.05	149.	2.43
12:00	1	1	21.98	1889	7.80		
12:02	2	1	22.05	1890	7.75		
12:04	3	1	22.11	1893	7.73		

Actual Purge Volume 9 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:10 12-1-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations The well purged pumped dry at 9 gallons

MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID 42-13 Date Gauged 12-1-15  
 Site Dominica II Time Gauged 10:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water NA feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth 67.5 feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

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GROUNDWATER SAMPLING DATA

Time/date Purged 12-1-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations The probe did not detect water. The pump did not pull water

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Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft





MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-01 Date Gauged 11-10-15  
 Site Dominique 1 Time Gauged 10:46  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 29.21 feet Height of Fluid Column 17.47 feet  
 Total Depth 46.68 feet Volume in Well 11.5302 gallons  
 (3 Well Volumes = 34.5906 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:54 11-10-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>10:54</u>			<u>20.79</u>	<u>4860</u>	<u>7.07</u>	<u>181.7</u>	<u>3.83</u>
<u>11:05</u> <del>10:55</del>	<u>11.5</u>	<u>11.5</u>	<u>20.48</u>	<u>4760</u>	<u>7.14</u>		
<u>11:15</u>	<u>23</u>	<u>11.5</u>	<u>20.39</u>	<u>4751</u>	<u>7.17</u>		
<u>11:24</u>	<u>34</u>	<u>11</u>	<u>20.20</u>	<u>4741</u>	<u>7.20</u>		

Actual Purge Volume 34 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:24 11-10-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID 624-02 Date Gauged 11-10-15

Site Dominquez 1 Time Gauged 12:08

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 20.81 feet Height of Fluid Column 16.48 feet

Total Depth 37.29 feet Volume in Well 10.8768 gallons

(3 Well Volumes = 32.6304 gallons)

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GROUNDWATER SAMPLING DATA

Time/date Purged 12:16 11-10-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:16			20.35	3650	8.11	90.4	1.69
12:25	10	10	18.07	3560	7.22		
12:34	20	10	18.21	3555	7.23		
12:44	30	10	18.15	3548	7.20		

Actual Purge Volume 32. gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:46 11-10-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

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Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID ~~62404~~ 62404 Date Gauged 11-10-15

Site Derringer 1 Time Gauged 11:48

Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches

Depth to Water DRY feet Height of Fluid Column \_\_\_\_\_ feet

Total Depth 17.49 feet Volume in Well \_\_\_\_\_ gallons

(3 Well Volumes = \_\_\_\_\_ gallons)

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GROUNDWATER SAMPLING DATA

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
			DRY				

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations There The well is dry.

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Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID 624-05 Date Gauged 11-10-15

Site Dominquez I Time Gauged 11:55

Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches

Depth to Water dry feet Height of Fluid Column \_\_\_\_\_ feet

Total Depth 17.41 feet Volume in Well \_\_\_\_\_ gallons

(3 Well Volumes = \_\_\_\_\_ gallons)

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GROUNDWATER SAMPLING DATA

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations The well is dry.

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Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID 604-06 Date Gauged 11-10-15  
 Site Dominquez Time Gauged 10:38  
 Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches  
 Depth to Water DRY feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth 52.24 feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

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GROUNDWATER SAMPLING DATA

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations ~~Press~~ The well is dry

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MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID 624-07 Date Gauged 11-10-15

Site Dominquez I Time Gauged 10:16

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 55.57 feet Height of Fluid Column .12 feet

Total Depth 55.69 feet Volume in Well .0792 gallons

(3 Well Volumes = .2376 gallons)

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GROUNDWATER SAMPLING DATA

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations Not enough water to bail.

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Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

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FLUID LEVEL DATA

Well ID 624-08 Date Gauged 11-10-15

Site Dominquez 1 Time Gauged 11:37

Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches

Depth to Water DRY feet Height of Fluid Column \_\_\_\_\_ feet

Total Depth 19.39 feet Volume in Well \_\_\_\_\_ gallons

(3 Well Volumes = \_\_\_\_\_ gallons)

---

GROUNDWATER SAMPLING DATA

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

**DRY**

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations The well is dry.

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Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

# TraceAnalysis, Inc.

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: D&H Petroleum & Environmental Services Phone #: 915-859-8150

Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907 Cell #: \_\_\_\_\_

Contact Person: Victor Ayala E-mail: vajala@dhpump.com

Invoice to (if different from above): Gonzalez Dairy, PO Box 199, Mesquite, NM 88048 Project Name: Joe Gonzalez 575-233-4801

Project #: 481231 Sampler Signature: [Signature]

Project Location (including state): Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE
177-01		1	250	X				X		X			11-11-15	10:56
177-01		1		X				X		X				10:56
177-02		1		X				X		X			11-30	11:30
177-02		1		X				X		X			8:12	8:12
177-03		1		X				X		X			8:12	8:12
177-04		1		X				X		X			9:06	9:06
177-04		1		X				X		X			9:06	9:06
177-05		1		X				X		X			9:54	9:54
177-05		1		X				X		X			9:54	9:54
177-07 R		1		X				X		X			12:21	12:21
177-07 R		1		X				X		X			12:21	12:21

Relinquished By: [Signature] Date: 11-11-15 Time: 13:50

Relinquished By: [Signature] Date: 11-11-15 Time: 16:30

Received By: [Signature] Date: 11-11-15 Time: 13:00

Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Lab Use Only  
Intact: Y / N  
Headspace: Y / N  
Temp: 12.6  
Log-in Review: \_\_\_\_\_

Remarks: on Dec.

Hold

Turn Around Time

ANALYSIS REQUEST

PAH 8270 (Low Level Analysis)

PAH 8270C

TX 1005 Extended (C35)

TPH 418.1 / TX1005

BTEX 8021B/602

MTBE 8021B/602

Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7

Nitrate EPA 300

TKN SM 4500 NORG C

Chloride EPA 300

Total Dissolved Solids SM 2540 C MOD

Diy Weight Basis Required

TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-01 Date Gauged 11-11-15  
 Site Gonzalez Time Gauged 10:25  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 20.21 feet Height of Fluid Column 5.05 feet  
 Total Depth 25.26 feet Volume in Well 3.333 gallons  
 (3 Well Volumes = 9.999 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:30 11-11-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:30			21.02	5873	7.16	108.9	1.56
10:35	2	2	20.54	5815	7.36		
10:41	4	2	20.56	5797	7.33		
10:44	5	1	20.55	5787	7.32		
10:47	6	1	20.81	5790	7.32		

Actual Purge Volume 8 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 10:56 11-11-15 Purged/Sampled By JV  
 Sample Method Bail  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations The well bailed dry.

Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-02 Date Gauged 11-11-15  
 Site Concrete Time Gauged 11:06  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 20.81 feet Height of Fluid Column 4.38 feet  
 Total Depth 25.27 feet Volume in Well 2.0908 gallons  
 (3 Well Volumes = 8.67 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:12 11:15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>11:12</u>			<u>21.86</u>	<u>4032</u>	<u>7.35</u>	<u>109.3</u>	<u>3.82</u>
<u>11:17</u>	<u>2</u>	<u>2</u>	<u>20.89</u>	<u>3960</u>	<u>7.35</u>		
<u>11:20</u>	<u>3</u>	<u>1</u>	<u>21.0</u>	<u>3989</u>	<u>7.35</u>		
<u>11:23</u>	<u>4</u>	<u>1</u>	<u>21.22</u>	<u>3957</u>	<u>7.36</u>		
<u>11:26</u>	<u>5</u>	<u>1</u>	<u>21.15</u>	<u>3964</u>	<u>7.36</u>		

Actual Purge Volume 6.6 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:30 11-11-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations The well bailed dry

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-03A Date Gauged 11-11-15  
 Site Gonawar Time Gauged 7:48

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 22.66 feet Height of Fluid Column 12.5 feet  
 Total Depth 35.16 feet Volume in Well 2.2125 gallons  
 (3 Well Volumes = 6.37 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:55 11-11-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
7:55			22.32	2623	7.58	218.1	1.89
8:01	2	2	20.55	3956	7.24		
8:07	4	2	20.64	3965	7.26		
8:12	6	2	20.69	3964	7.27		

Actual Purge Volume 6.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 8:12 11-11-15 Purged/Sampled By JV

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-04 Date Gauged 11-11-15  
 Site Granada Time Gauged 8:27  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 26.88 feet Height of Fluid Column 19.32 feet  
 Total Depth 46.20 feet Volume in Well 12.7512 gallons  
 (3 Well Volumes = 38 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:41 11-11-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:41			19.44	5727	7.40	227.1	1.61
8:57	12	12	20.21	5857	7.32		
8:57	24	12	20.87	5709	7.21		
9:00	24	5	20.26	5870	7.36		
9:02	34	5	20.30	5879	7.44		
9:06	38	4	20.13	5824	7.39		

Actual Purge Volume 38 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:06 11-11-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-05 Date Gauged 11-11-15  
 Site Genzani Time Gauged 9:30  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 38.87 feet Height of Fluid Column 9.92 feet  
 Total Depth 48.79 feet Volume in Well 6.5472 gallons  
 (3 Well Volumes = 19.64 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:38 11-11-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:38			18.17	4853	7.63	151.4	3.84
9:45	3	3	20.13	5283	7.46		
9:48	6	3	18.52	5249	7.48		
9:51	9	3	19.12	5248	7.49		
9:54	12	3	18.92	5241	7.45		

Actual Purge Volume 19.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:54 11-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-06 Date Gauged 11-11-15

Site Gonzales Time Gauged 07:30

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water DRY feet Height of Fluid Column \_\_\_\_\_ feet

Total Depth 51.70 feet Volume in Well \_\_\_\_\_ gallons

(3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged \_\_\_\_\_

Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations The well is dry.

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-07 Date Gauged 11-11-15

Site Gonzales Time Gauged 11:42

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 47.60 feet Height of Fluid Column 6.5 feet

Total Depth 54.10 feet Volume in Well 4.29 gallons

(3 Well Volumes = 12.87 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:47 11-11-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:47			21.11	5014	7.02	201.4	3.47
11:56	3	3	20.89	5023	7.32		
12:04	6	3	20.68	5021	7.33		
12:13	9	3	20.61	5017	7.32		

Actual Purge Volume 13.0 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:21 11-11-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



6701 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

155 McCutcheon, Ste. H El  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name:

D&H United Fuel Solutions

Address: (Street, City, Zip)

1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person:

Rosalio Guillen

Invoice to (if different from above):

Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048

Project #:

481242

John DeRuyter 575-233-3899

Project Name:

Mountain View Dairy

Sampler Signature: *JWR*

Project Location (including state):

Mountain View Dairy, 13090 Stern Drive, Mesquite, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE
70-01		1		X				X		X			11-12-15	1212
70-01		1		X				X		X			1212	
70-02		1		X				X		X			1327	
70-02		1		X				X		X			1327	
70-03		1		X				X		X			1140	
70-03		1		X				X		X			1140	
70-04		1		X				X		X			1242	
70-04		1		X				X		X			1242	
70 Lagoon		1		X				X		X			1306	
70 Lagoon		1		X				X		X			1306	
70 Lagoon		1		X				X		X			1306	
70 Lagoon		1		X				X		X			1306	
		1		X				X		X			1306	
		1		X				X		X			1306	
		1		X				X		X			1306	
		1		X				X		X			1306	

Relinquished By: <i>JWR</i>	Date: 11-12-15	Time: 13:55	Received By: <i>D7 d H</i>	Date: 11-12-15	Time: 13:55
Relinquished By: <i>D7 d H</i>	Date: 11-12-15	Time: 16:30	Received at Laboratory By: <i>D7 d H</i>	Date: 11-12-15	Time: 13:55

ANALYSIS REQUEST	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1 / TX1005	TX 1005 Extended (C35)	PAH 8270C	PAH 8270 (Low Level Analysis)	Phosphorus SM 4500	Nitrates EPA 300	Total Kjeldahl Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD	Sulfate EPA Method 300.0	Total Sulfur	Turn Around Time	Hold
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			

Remarks:

Lab Use Only  
Intact  Y /  N  
Headspace  Y /  N  
Temp 2.8/2.8  K -  B  
Log-in Review

Dry Weight Basis Required  
TRRP Permit Required

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 7001 Date Gauged 11-12-15

Site Mt View Time Gauged 11:49

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 38.1 feet Height of Fluid Column 8.47 feet

Total Depth 46.57 feet Volume in Well 5.5902 gallons

(3 Well Volumes = 16.77 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 11:53 11-12-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:53			21.17	3896	7.53	171.1	1.70
11:57	3	3	21.04	3797	7.20		
12:00	6	3	20.97	3782	7.18		
12:04	9	3	20.88	3780	7.17		
12:08	12	3	20.91	3774	7.15		

Actual Purge Volume 16.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:12 11-12-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 70-02 Date Gauged 11-12-15

Site Mt. View Time Gauged 13:12

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 47.54 feet Height of Fluid Column 2.09 feet

Total Depth 49.63 feet Volume in Well 1.3794 gallons

(3 Well Volumes = 4.1382 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 13:17 11-12-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:17			22.85	4907	7.47	179.1	
13:20	1	1	22.06	4744	7.74		
13:23	2	1	22.01	4741	7.66		
13:27	3	1	21.94	4737	7.64		

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:27 11-12-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 70-03 Date Gauged 11-12-15  
 Site Mt. View Time Gauged 11:12  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 58.0 feet Height of Fluid Column 3.24 feet  
 Total Depth 61.24 feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = 6.4152 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:17 11-12-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:17			20.81	8567	7.07	266.1	1.32
11:21	1	1	20.62	9065	7.13		
11:25	2	1	20.16	9447	7.14		
11:29	3	1	20.44	9345	7.14		
11:33	4	1	20.36	9353	7.15		
11:37	5		20.21	9359	7.11		

Actual Purge Volume 6.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:40 11-12-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 70-04 Date Gauged 11-12-15

Site Mt. View Time Gauged 12:17

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 36.21 feet Height of Fluid Column 11.69 feet

Total Depth 47.85 feet Volume in Well 1.9788 gallons

(3 Well Volumes = 5.93 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 12:21 11-12-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:21			22.02	3886	7.12	195.5	1.17
12:25	1	1	22.15	3928	7.11		
12:29	2	1	21.90	3932	7.10		
12:33	3	1	21.76	3939	7.08		

Actual Purge Volume 6 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:42 11-12-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
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200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

BioAquatic Testing  
2501 Mayer Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

Brandon & Clark  
3403 Industrial Blvd.  
Hobbs, NM 88240  
Tel (575) 392-7561  
Fax (575) 392-4508

email: lab@traceanalysis.com

Company Name: **United Fuel Solutions**  
Address: **1881 Teer Trail Ln, El Paso, TX, 79907**  
Phone #: **915-859-6150**  
Fax #: **915-859-6150**

Contact Person: **Roselia Garcia**  
E-mail: **rgarcia@chp.com**

Invoice to: **PO Box 10, 12500 Stem Dr, Mesquite NM**  
Project Name: **John DeRuyter**  
Project #: **575-533-3620**

Project Location (including state): **12500 Stem Dr, Mesquite NM**  
Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE
	laegren	1	250					X					11-15	10:01
	laegren	1	250					X					10:01	10:01
	laegren	1	250					X					10:01	10:01

ANALYSIS REQUEST  
(Circle or Specify Method No.)

- MTBE 8021 / 602 / 8260 / 624
- BTEX 8021 / 602 / 8260 / 624
- TPH 418.1 / TX1005 / TX1005 Ext(C35)
- TPH 8015 GRO / DRO / TVHC
- PAH 8270 / 625
- Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7
- TCLP Metals Ag As Ba Cd Cr Pb Se Hg
- TCLP Volatiles
- TCLP Semi Volatiles
- TCLP Pesticides
- RCI
- GC/MS Vol. 8260 / 624
- GC/MS Semi. Vol. 8270 / 625
- PCB's 8082 / 608
- Pesticides 8081 / 608
- BOD, TSS, pH
- Moisture Content
- Cl, F, SO<sub>4</sub> NO<sub>3</sub>-N, NO<sub>2</sub>-N, PO<sub>4</sub>-P, Alkalinity
- Na, Ca, Mg, K, TDS, EC
- TKN SM 4500 NORG C**
- Chloride EPA 20.0**
- TDS SM 2540 C MOD**
- Phosphorus**
- Turn Around Time if different from standard
- Hold

Relinquished by: **DM** Company: **DM** Date: **11-16-15** Time: **13:35**

Received by: **Dyck** Company: **DM** Date: **1-10-15** Time: **13:35**

LAB USE ONLY  
Inlet  JLN  
Headspace  JLN

REMARKS:

Relinquished by: **Dyck** Company: **DM** Date: **11-10-15** Time: **14:30**

Received by: **Dyck** Company: **DM** Date: **1-10-15** Time: **13:35**

LAB USE ONLY  
Inlet  JLN  
Headspace  JLN

REMARKS:

Carrier # **APRY 11**

DRY Weight Basis Required  
 TRRP Report Required  
 Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.





MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-04 Date Gauged 11-9-15  
 Site Oregon Time Gauged 12:00  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 36.51 feet Height of Fluid Column 1.69 feet  
 Total Depth 38.20 feet Volume in Well 1.1154 gallons  
 (3 Well Volumes = 3.34 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:05 11-9-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:05	.25	.25	22.24	3611	7.06	38.5	2.40
12:09	1.25	1.0	21.40	3564	7.20		
12:13	2.25	1.0	21.34	3561	7.14		
12:17	3.25	1.0	21.29	3558	7.11		

Actual Purge Volume 3.25 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:17 11-9-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 1d6-05 Date Gauged 11-9-15

Site Organ Time Gauged 10:59

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 28.82 feet Height of Fluid Column 2.69 feet

Total Depth 31.51 feet Volume in Well .4573 gallons

(3 Well Volumes = 1.3719 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:03 11-9-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:03	.25	.25	20.95	4172	7.30	186.6	2.15
11:06	.50	.25	19.96	4174	7.39		
	.75	.25					

Actual Purge Volume .50 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:09 11-9-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations The well bailed dry.

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-07 Date Gauged 11-9-15

Site Organ Time Gauged 10:11

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 36.94 feet Height of Fluid Column 2.18 feet

Total Depth 39.12 feet Volume in Well .3706 gallons

(3 Well Volumes = 1.1118 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:14 11-9-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:14	.25	.25	22.68	3669	6.83	185.7	1.84
10:16	.50	.25	21.78	3388	6.85		
10:18	.75	.25	21.54	3351	6.87		
10:20	1.00	.25	21.02	3338	6.84		

Actual Purge Volume 1.0 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:20 11-9-15 Purged/Sampled By JV

Sample Method Bail.

Requested Analyses \_\_\_\_\_

Comments/Observations The water contained a lot of silt, well bailed dry.

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 126-09 Date Gauged 11-9-15

Site Organ Time Gauged 8:47

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 79.28 feet Height of Fluid Column 3.27 feet

Total Depth 82.55 feet Volume in Well .5559 gallons

(3 Well Volumes = 1.6677 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 9:02 11-9-15 Purged Method Beil

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:02	.25	.25	22.55	3817	6.82	143.2	4.75
9:15	.25	.75	22.27	3888	6.79		

Actual Purge Volume .75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:15 11-9-15 Purged/Sampled By JV

Sample Method Beil

Requested Analyses \_\_\_\_\_

Comments/Observations Well bailed dry. Had to wait to grab sample.

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-12 Date Gauged 11-9-15

Site Orphan Time Gauged 11:18

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water 24.07 feet Height of Fluid Column 5.87 feet

Total Depth 29.9 feet Volume in Well 0.6478 gallons

(3 Well Volumes = 11.54 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:23 11-9-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:23	.25	.25	20.52	3373	6.97	-145.5	2.37
11:35	4.00	3.75	19.97	3268	7.27		
11:44	7.75	3.75	19.88	3273	7.26		
11:56	11.5	3.75	19.76	3276	7.24		

Actual Purge Volume 11.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:56 11-9-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-13 Date Gauged 11-9-15  
 Site organ Time Gauged 9:43  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 43.57 feet Height of Fluid Column 15.26 feet  
 Total Depth 58.63 feet Volume in Well 2.5942 gallons  
 (3 Well Volumes = 7.7826 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:49 11-9-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:49	.25	.25	22.09	4204	7.42	114.8	4.32
9:54	2.50	2.50	21.52	4217	7.01		
10:00	5.00	2.50	21.46	4212	7.04		
10:05	7.50	2.50	21.44	4208	6.96		

Actual Purge Volume 7.75 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:05 11-9-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

# TraceAnalysis, Inc.

155 McCutcheon, Ste. H El Paso, TX 79932  
 Tel (915) 585-3443  
 Fax (915) 585-4944

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # \_\_\_\_\_

Company Name: **D&H United Fueling Solutions**  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln, El Paso TX 79907  
 Contact Person: **Rosalio Guillen**  
 Phone #: **915-859-8150**  
 Cell #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-mail: **rguillen@dhpump.com**

Project #: \_\_\_\_\_  
 Project Name: **Bruce Bonestroo 575-233-2061**  
 River Valley Dairy, LLC  
 Sampler Signature: *[Signature]*

Project Location (including state):  
 River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					Sampling		TIME	Hold
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE		
	167-05	1	250	X			X	X	X	X	X	X	11-13-15	1008	
	167-05	1		X			X	X	X	X	X	X		1008	
	167-06	1		X			X	X	X	X	X	X		1048	
	167-06	1		X			X	X	X	X	X	X		1048	
	167-07	1		X			X	X	X	X	X	X		8:27	
	167-07	1		X			X	X	X	X	X	X		8:27	
	167-09	1		X			X	X	X	X	X	X		9:26	
	167-09	1		X			X	X	X	X	X	X		9:26	

ANALYSIS REQUEST	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1 / TX1005	TX 1005 Extended (C35)	PAH 8270C	PAH 8270 (Low Level Analysis)	Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	Nitrates EPA 300	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD	Turn Around Time
								X	X	X		

Relinquished By: *[Signature]* Date: 11-13-15 Time: 11:45  
 Received By: *[Signature]* Date: 11-13-15 Time: 11:45  
 Relinquished By: *[Signature]* Date: 11-13-15 Time: 16:30  
 Received at Laboratory By: *[Signature]* Date: 11-13-15 Time: 11:45

Remarks: \_\_\_\_\_  
 Lab Use Only  
 Intact Y  N   
 Headspace Y  N   
 Temp/E3 29.72  
 Log-in Review \_\_\_\_\_  
 Dry Weight Basis Required   
 TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-05 Date Gauged 11-13-15  
 Site River Hwy Time Gauged 9:45  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 16.92 feet Height of Fluid Column 4.56 feet  
 Total Depth 21.48 feet Volume in Well ,7752 gallons  
 (3 Well Volumes = 2.3256 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:57 11-13-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:51			19.97	4162	7.25	142.4	1.11
9:55	.5	.5	19.74	4154	7.26		
9:59	1	.5	19.68	4148	7.24		
10:03	1.5	1.5	19.81	4146	7.25		

Actual Purge Volume 2.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:08 11-13-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-06 Date Gauged 11-13-15  
 Site River Valley Time Gauged 10:33  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 31.71 feet Height of Fluid Column 3.92 feet  
 Total Depth 35.63 feet Volume in Well .6664 gallons  
 (3 Well Volumes = 1.9992 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:37 11-13-15 Purged Method Beil

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:37			21.37	3631	7.20	171.1	1.02
10:39	.5	.5	21.12	3593	7.25		
10:41	1	.5	20.91	3621	7.29		
10:43	1.25	.25	20.49	3618	7.27		
10:45	1.50	.25	20.60	3612	7.26		

Actual Purge Volume 2.0 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:48 11-13-15 Purged/Sampled By SV

Sample Method Beil

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-09 Date Gauged 11-13-15

Site River Valley Time Gauged 9:10

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 17.26 feet Height of Fluid Column 2.47 feet

Total Depth 19.73 feet Volume in Well .4199 gallons

(3 Well Volumes = 1.25 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:16 11-13-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:16			18.72	3325	7.31	.5	1.06
9:19	.5	.5	18.76	3374	7.28		
9:22	.75	.25	18.66	3382	7.28		
9:25	1.0	.25	18.69	3381	7.25		

Actual Purge Volume 1.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:26 11-13-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-07 Date Gauged 11-13-15

Site River Valley Time Gauged 8:00

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 17.36 feet Height of Fluid Column 7.56 feet

Total Depth 24.92 feet Volume in Well 1.2852 gallons

(3 Well Volumes = 3.8556 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:16 11-13-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:16			18.88	1764	7.60	-114.1	1.12
8:19	1	1	18.67	1833	7.59		
8:22	2	1	18.74	1829	7.63		
8:25	3	1	18.72	1825	7.64		

Actual Purge Volume 3.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 8:27 11-13-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft





MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-01A Date Gauged 11-16-15

Site River Valley Time Gauged 10:30

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches

Depth to Water 18.68 feet Height of Fluid Column 6.46 feet

Total Depth 25.14 feet Volume in Well 1.0982 gallons

(3 Well Volumes = 3.29 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:50 11-16-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:36			19.64	4060	7.32	221.2	1.41
10:40	1	1	19.62	4009	7.38		
10:43	1.5	.5	19.56	4007	7.35		
10:46	2.0	.5	19.50	4001	7.34		

Actual Purge Volume 3.25 gals. Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:50 11-16-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 167-02 Date Gauged 11-16-15

Site River Valley Time Gauged 10:22

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches

Depth to Water \_\_\_\_\_ feet Height of Fluid Column \_\_\_\_\_ feet

Total Depth 21.1 feet Volume in Well \_\_\_\_\_ gallons

(3 Well Volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 11-16-15 Purged Method  bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations The well is dry.

**Well Casing Volumes**

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-03 Date Gauged 11-16-15  
 Site River Valley Time Gauged 8:38  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 24.04 feet Height of Fluid Column 15.95 feet  
 Total Depth 40.79 feet Volume in Well 10.527 gallons  
31.501  
 (3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:48 11-16-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:48			20.17	2843	7.00	246.1	1.46
8:55	5	5	22.47	3041	7.25		
8:59	10	5	22.21	3007	7.33		
9:03	15	5	21.56	3001	7.33		
9:07	20	5	21.43	2998	7.34		

Actual Purge Volume 31.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:14 11-16-15 Purged/Sampled By JY

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-04 Date Gauged 11-16-15  
 Site River Valley Time Gauged 9:35  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 26.80 feet Height of Fluid Column 3.39 feet  
 Total Depth 30.19 feet Volume in Well .5783 gallons  
 (3 Well Volumes = 1.72 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:40 11-16-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:40			21.13	5393	7.39	223.0	
9:44	.5	.5	20.63	4674	7.50		
9:46	.75	1.25	20.72	4553	7.58		
9:47	1.0	1.25	20.07	4234	7.50		

Actual Purge Volume 1.0 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:40 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations The well bailed dry.

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft





**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 167-08 Date Gauged 11-23-15  
 Site River Valley Time Gauged 9:20  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 16.95 feet Height of Fluid Column 13.00 feet  
 Total Depth 30.03 feet Volume in Well 2.3576 gallons  
 (3 Well Volumes = 7.07 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 9:25 11-23-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:25			18.26	3571	7.54	32.8	1.27
9:28	1	1	17.24	3470	7.39		
9:31	2	1	17.19	3465	7.37		
9:34	3	1	17.09	3463	7.38		

Actual Purge Volume 7 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:43 11-23-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 257/260 01 Date Gauged 11-19-15  
 Site Sunset Time Gauged 11:50  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 12.81 feet Height of Fluid Column 7.36 feet  
 Total Depth 20.17 feet Volume in Well 4.8576 gallons

(3 Well Volumes = 14.5728 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:04 11-19-15 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	<sup>DO</sup> <del>TDS</del> (mg/L)
12:04			20.49	3279	7.77	97.6	.98
12:09	3	3	20.13	3245	7.93		
12:13	6	3	20.02	3228	7.99		
12:17	9	3	20.06	3221	7.91		
12:21	12	3	19.97	3217	7.90		

14.5

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:23 11-19-15 Purged/Sampled By JV

Sample Method Pump

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 ga/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-01 Date Gauged 11-19-15  
 Site Sunset Time Gauged 11:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 22.95 feet Height of Fluid Column 2.82 feet  
 Total Depth 25.83 feet Volume in Well .4896 gallons  
 (3 Well Volumes = 1.46 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:18 11-19-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:18			21.18	5873	7.46	184.9	2.27
11:20	.5	.5	20.7	4983	7.48		
11:22	.75	.25	20.32	4962	7.44		
11:24	1.0	.25	20.37	4945	7.46		
11:26	1.25	.25	20.16	4943	7.48		

Actual Purge Volume 1.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:28 11-19-15 Purged/Sampled By JV

Sample Method Bail

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-02 Date Gauged 11-19-15  
 Site Sunset Time Gauged 10:45  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 17.74 feet Height of Fluid Column 2.94 feet  
 Total Depth 20.68 feet Volume in Well .4998 gallons  
 (3 Well Volumes = 1.4994 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:50 11-19-15 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:50			21.09	4107	7.23	204.7	3.38
10:53	.5	.5	21.10	4043	7.42		
10:55	.75	.25	20.98	4073	7.42		
10:57	1.0	.25	21.09	4064	7.41		

Actual Purge Volume 1.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 11:00 11-19-15 Purged/Sampled By JV  
 Sample Method Bail  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 257-03 Date Gauged 11-19-15  
 Site Sunset Time Gauged 11:41

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water Dry feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth 13.96 feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged \_\_\_\_\_ Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations The well is dry.

Well Casing Volumes  
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 5" diameter = 1.02 gal/ft 6" diameter = 1.50 gal/ft



**APPENDIX B**  
**ANALYTICAL LABORATORY REPORTS**  
**(Electronic Format – CD)**



6701 Aberdeen Avenue, Suite 9      Lubbock, Texas 79424      800-378-1296      806-794-1296      FAX 806-794-1298  
 200 East Sunset Road, Suite E      El Paso, Texas 79922           915-585-3443      FAX 915-585-4944  
 5002 Basin Street, Suite A1      Midland, Texas 79703           432-689-6301      FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100      Carrollton, Texas 75006           972-242-7750  
 E-Mail: lab@traceanalysis.com      WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Tim Hyde  
 Bright Star Dairy  
 13520 Stern Dr.  
 P.O. Box 167  
 Mesquite, NM, 88048

Report Date: November 16, 2015

Work Order: 15110919



Project Location: 13520 Stern Drive, Mesquite, NM  
 Project Name: Bright Star Dairy  
 Project Number: 481238

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
407838	340-01	Water	2015-11-09	13:05	2015-11-09
407839	340-02	Water	2015-11-09	13:23	2015-11-09

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager



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## Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2015-11-09 and assigned to work order 15110919. Samples for work order 15110919 were received intact at a temperature of 1.4 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106813	2015-11-09 at 19:12	126240	2015-11-09 at 19:12
NO3 (IC)	E 300.0	106813	2015-11-09 at 19:12	126240	2015-11-09 at 19:12
SO4 (IC)	E 300.0	106813	2015-11-09 at 19:12	126240	2015-11-09 at 19:12
TDS	SM 2540C	106818	2015-11-10 at 13:40	126244	2015-11-11 at 07:30
TKN	SM 4500-NH3 B,C	106878	2015-11-12 at 10:00	126306	2015-11-12 at 14:00

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15110919 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 407838 - 340-01

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
 Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>578</b>	<b>578</b>	<0.465	mg/L	50	0.465	2.5	0.0093

## Sample: 407838 - 340-01

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
 Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>29.8</b>	<b>29.8</b>	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 407838 - 340-01

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
 Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1,4,6	<b>582</b>	<b>582</b>	<1.94	mg/L	50	1.94	2.5	0.0389

## Sample: 407838 - 340-01

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126244 Date Analyzed: 2015-11-11 Analyzed By: MC  
 Prep Batch: 106818 Sample Preparation: 2015-11-10 Prepared By: MC



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481238

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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Dissolved Solids		1,4,6	<b>2820</b>	<b>2820</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 407838 - 340-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
 Prep Batch: 106878 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 407839 - 340-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
 Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Chloride		1,4,6	<b>870</b>	<b>870</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 407839 - 340-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
 Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Nitrate-N		1,4,6	<b>89.2</b>	<b>89.2</b>	<0.387	mg/L	10	0.387	0.5	0.0387

**Sample: 407839 - 340-02**

Report Date: November 16, 2015  
481238

Work Order: 15110919  
Bright Star Dairy

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Laboratory: El Paso  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,6	<b>398</b>	<b>398</b>	<0.389	mg/L	10	0.389	2.5	0.0389

**Sample: 407839 - 340-02**

Laboratory: El Paso  
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
QC Batch: 126244 Date Analyzed: 2015-11-11 Analyzed By: MC  
Prep Batch: 106818 Sample Preparation: 2015-11-10 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>3200</b>	<b>3200</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 407839 - 340-02**

Laboratory: Lubbock  
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
Prep Batch: 106878 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126240  
Prep Batch: 106813

Date Analyzed: 2015-11-09  
QC Preparation: 2015-11-09

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126240  
Prep Batch: 106813

Date Analyzed: 2015-11-09  
QC Preparation: 2015-11-09

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126240  
Prep Batch: 106813

Date Analyzed: 2015-11-09  
QC Preparation: 2015-11-09

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1,4,6	<0.0389	mg/L	0.0389

### Method Blank (1)

QC Batch: 126244  
Prep Batch: 106818

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-10

Analyzed By: MC  
Prepared By: MC



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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

---

**Method Blank (1)**

QC Batch: 126306  
Prep Batch: 106878

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,9	<1.18	mg/L	1.18

---

# Duplicates

Duplicate (1) Duplicated Sample: 407845

QC Batch: 126244  
Prep Batch: 106818

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-10

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2390	2460	mg/L	50	3	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126240  
Prep Batch: 106813

Date Analyzed: 2015-11-09  
QC Preparation: 2015-11-09

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.0	mg/L	1	25.0	<0.00930	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.0	mg/L	1	25.0	<0.00930	100	90 - 110	0 20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126240  
Prep Batch: 106813

Date Analyzed: 2015-11-09  
QC Preparation: 2015-11-09

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.93	mg/L	1	5.00	<0.0387	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.94	mg/L	1	5.00	<0.0387	99	90 - 110	0 20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126240  
Prep Batch: 106813

Date Analyzed: 2015-11-09  
QC Preparation: 2015-11-09

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,6	25.0	mg/L	1	25.0	<0.0389	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfate		1,4,6	25.0	mg/L	1	25.0	<0.0389	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126244                                      Date Analyzed: 2015-11-11                                      Analyzed By: MC  
Prep Batch: 106818                                      QC Preparation: 2015-11-10                                      Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1,4,6	998	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1,4,6	1000	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126306                                      Date Analyzed: 2015-11-12                                      Analyzed By: CF  
Prep Batch: 106878                                      QC Preparation: 2015-11-12                                      Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,7,9	35.8	mg/L	1	40.0	<1.18	90	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2,3,7,9	35.8	mg/L	1	40.0	<1.18	90	82.8 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 407915

QC Batch: 126306  
Prep Batch: 106878

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	37.5	mg/L	1	40.0	2.24	88	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	38.1	mg/L	1	40.0	2.24	90	77.9 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Calibration Standards

## Standard (CCV-1)

QC Batch: 126240

Date Analyzed: 2015-11-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.1	100	90 - 110	2015-11-09

## Standard (CCV-1)

QC Batch: 126240

Date Analyzed: 2015-11-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.99	100	90 - 110	2015-11-09

## Standard (CCV-1)

QC Batch: 126240

Date Analyzed: 2015-11-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.2	101	90 - 110	2015-11-09

## Standard (CCV-2)

QC Batch: 126240

Date Analyzed: 2015-11-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.3	101	90 - 110	2015-11-09





## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.104	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-15-6	El Paso
7	NELAP	T104704219-15-11	Lubbock
8	NELAP	T104704392-14-8	Midland
9		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.



F	Description
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

John DeRuyter  
Organ Dairy LLC

Report Date: November 18, 2015

P.O. Box 340  
Arrey, NM, 87930

Work Order: 15111035



Project Location: 12560 Stern Drive , Mesquite, NM  
Project Name: Organ Dairy  
Project Number: 481236

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
407917	lagoon	water	2015-11-10	10:01	2015-11-10

## Notes

- **Work Order 15111035:** Added 4mLs of HNO<sub>3</sub> to sample (407917-3) 11/10/15 @ 14:55 DDH.

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 17 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

## Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Organ Dairy were received by TraceAnalysis, Inc. on 2015-11-10 and assigned to work order 15111035. Samples for work order 15111035 were received intact at a temperature of 3.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106847	2015-11-10 at 20:37	126273	2015-11-10 at 20:37
NO3 (IC)	E 300.0	106847	2015-11-10 at 20:37	126273	2015-11-10 at 20:37
P, Total	S 6010C	106835	2015-11-11 at 14:32	126308	2015-11-12 at 15:47
TDS	SM 2540C	106892	2015-11-12 at 13:00	126325	2015-11-13 at 08:00
TKN	SM 4500-NH3 B,C	106880	2015-11-12 at 10:00	126307	2015-11-12 at 14:00

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111035 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 407917 - lagoon

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>1050</b>	<b>1050</b>	<0.465	mg/L	50	0.465	2.5	0.0093

## Sample: 407917 - lagoon

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1,4,6	<0.194	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 407917 - lagoon

Laboratory: Lubbock  
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A  
 QC Batch: 126308 Date Analyzed: 2015-11-12 Analyzed By: RR  
 Prep Batch: 106835 Sample Preparation: 2015-11-12 Prepared By: RR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Phosphorous		3,5,7,8	<b>49.7</b>	<b>49.7</b>	<0.0194	mg/L	5	0.0194	0.5	0.00389

## Sample: 407917 - lagoon

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126325 Date Analyzed: 2015-11-13 Analyzed By: MC  
 Prep Batch: 106892 Sample Preparation: 2015-11-12 Prepared By: MC

Report Date: November 18, 2015  
481236

Work Order: 15111035  
Organ Dairy

Page Number: 6 of 17  
12560 Stern Drive , Mesquite, NM

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
			Result	Result	Result					
Total Dissolved Solids		1,4,6	<b>4700</b>	<b>4700</b>	<500	mg/L	200	500	2.5	2.5

**Sample: 407917 - lagoon**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 126307

Prep Batch: 106880

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2015-11-12

Sample Preparation:

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
			Result	Result	Result					
Total Kjeldahl Nitrogen - N		2,3,7,8	<b>239</b>	<b>239</b>	<2.36	mg/L	2	2.36	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126273  
Prep Batch: 106847

Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126273  
Prep Batch: 106847

Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126307  
Prep Batch: 106880

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.18	mg/L	1.18

### Method Blank (1)

QC Batch: 126308  
Prep Batch: 106835

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-11

Analyzed By: RR  
Prepared By: PM



Report Date: November 18, 2015  
481236

Work Order: 15111035  
Organ Dairy

Page Number: 8 of 17  
12560 Stern Drive , Mesquite, NM

---

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		3,5,7,8	<0.00389	mg/L	0.00389

---

**Method Blank (1)**

QC Batch: 126325  
Prep Batch: 106892

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-12

Analyzed By: MC  
Prepared By: MC

---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<25.0	mg/L	2.5

---

# Duplicates

Duplicate (1) Duplicated Sample: 408030

QC Batch: 126325  
Prep Batch: 106892

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-12

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	4110	4260	mg/L	50	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126273  
Prep Batch: 106847

Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	24.6	mg/L	1	25.0	<0.00930	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	24.8	mg/L	1	25.0	<0.00930	99	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126273  
Prep Batch: 106847

Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.88	mg/L	1	5.00	<0.0387	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.90	mg/L	1	5.00	<0.0387	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126307  
Prep Batch: 106880

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	34.2	mg/L	1	40.0	<1.18	86	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	35.3	mg/L	1	40.0	<1.18	88	82.8 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126308  
Prep Batch: 106835

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-11

Analyzed By: RR  
Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,8	0.449	mg/L	1	0.500	<0.00389	90	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		3,5,7,8	0.465	mg/L	1	0.500	<0.00389	93	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126325  
Prep Batch: 106892

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-12

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	999	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	999	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



# Matrix Spikes

## Matrix Spike (MS-1) Spiked Sample: 407926

QC Batch: 126307  
Prep Batch: 106880

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	35.8	mg/L	1	40.0	<1.18	90	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	35.3	mg/L	1	40.0	<1.18	88	77.9 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (xMS-1) Spiked Sample: 407847

QC Batch: 126308  
Prep Batch: 106835

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-11

Analyzed By: RR  
Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,8	0.581	mg/L	1	0.500	0.197	77	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		3,5,7,8	0.653	mg/L	1	0.500	0.197	91	75 - 125	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Calibration Standards

## Standard (CCV-2)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.1	100	90 - 110	2015-11-10

## Standard (CCV-2)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.98	100	90 - 110	2015-11-10

## Standard (CCV-3)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.3	101	90 - 110	2015-11-10

## Standard (CCV-3)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.00	100	90 - 110	2015-11-10



## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass



---

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-15-6	El Paso
7	NELAP	T104704219-15-11	Lubbock
8		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

---

F Description

---

U The analyte is not detected above the SDL

---

## Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

# Trace Analysis, Inc.

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

BioAquatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750  
Fax (972) 242-7750

Brandon & Clark  
3403 Industrial Blvd.  
Hobbs, NM 88240  
Tel (575) 392-7561  
Fax (575) 392-4508

email: lab@traceanalysis.com

Company Name: **Doh United Fuel Solutions** Phone #: **915-854-8150**  
 Address: (Street, City, Zip) **1221 Tower Trail Ln, El Paso, TX, 79907** Fax #:  
 Contact Person: **Rosalia Cavillon** E-mail: **rguilenochamp@com**  
 Invoice to: **Po Box 10, 12560 Stern Dr, Mesquite NM** John DeBartolo  
 (If different from above) **575-833-3630**  
 Project #: **12560 Stern Dr Mesquite NM** Project Name: **Organ Dairy**  
 Project Location (including state): **12560 Stern Dr Mesquite NM** Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE
40797-1	laguen	1	250				X			X		11-15	10:01
1-2	laguen	1	250						X			10:01	10:01
1-3	laguen	1	250				X					10:01	10:01

**ANALYSIS REQUEST (Circle or Specify Method No.)**

<input type="checkbox"/>	MTBE 8021 / 602 / 8260 / 624
<input type="checkbox"/>	BTEX 8021 / 602 / 8260 / 624
<input type="checkbox"/>	TPH 418.1 / TX1005 / TX1005 Ext(C35)
<input type="checkbox"/>	TPH 8015 GRO / DRO / TVHC
<input type="checkbox"/>	PAH 8270 / 625
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Volatiles
<input type="checkbox"/>	TCLP Semi Volatiles
<input type="checkbox"/>	TCLP Pesticides
<input type="checkbox"/>	RCI
<input type="checkbox"/>	GC/MS Vol. 8260 / 624
<input type="checkbox"/>	GC/MS Semi. Vol. 8270 / 625
<input type="checkbox"/>	PCBs 8082 / 608
<input type="checkbox"/>	Pesticides 8081 / 608
<input type="checkbox"/>	BOD, TSS, pH
<input type="checkbox"/>	Moisture Content
<input checked="" type="checkbox"/>	Cl, F, SO <sub>4</sub> , NO <sub>3</sub> , NO <sub>2</sub> , N, PO <sub>4</sub> , P, Alkalinity
<input checked="" type="checkbox"/>	Na, Ca, Mg, K, TDS, EC
<input checked="" type="checkbox"/>	Art. TRN SM HSD NR/B.C
<input checked="" type="checkbox"/>	Carbide CM 20.0
<input checked="" type="checkbox"/>	TDS SM 2540 C MOD
<input checked="" type="checkbox"/>	Phosphorus

Turn Around Time if different from standard

Received by: **Dz del H** Company: **Doh** Date: **11-10-15** Time: **13:35** INST: **12-3**  
 Received by: **Dz del H** Company: **Doh** Date: **11-10-15** Time: **13:35** INST: **3-7**  
 Received by: **Dz del H** Company: **Doh** Date: **11-10-15** Time: **14:30** INST: **3-8**

REMARKS: **Added HNO<sub>3</sub> to sample**  
**40797-3 11-10-15 14:55**  
**Doh (Yml of HNO<sub>3</sub>)**

LAB USE ONLY  
 Inlet:  JLN  
 Headspace:  JLN (NA)

Dry Weight Basis Required   
 TRRP Report Required   
 Check if Special Reporting Limits Are Needed

Log-in-Review: *[Signature]*  
 11-10-15

Carrier # **CARRY IN**

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY


## Sample Log

Work Orders 15111035 to 15111035

**Work Order:** 15111035 <sup>a</sup>

<sup>a</sup>Added 4mLs of HNO3 to sample  
(407917-3) 11/10/15 @ 14:55 DDII.

**Received:** 2015-11-10 at 13:35 by Denny de Haro  
**Customer:** Organ Dairy LLC  
**Customer Contact:** John DeRuyter  
**Invoice To:** Organ Dairy LLC  
**Invoice Contact:** John DeRuyter  
**Purchase Order:** N/A  
**Project:** Organ Dairy 481236  
**Project Location:** 12560 Stern Drive , Mesquite, NM  
**Project Name:** Organ Dairy  
**Project Number:** 481236

  
 11-10-15

**Sample:** 407917 <sup>a</sup>      **Field Code:** lagoon      **Work Order:** 15111035  
**Matrix:** liquid/water      **Composition:** water      **Collected:** 2015-11-10 at 10:01

<sup>a</sup>Added 4mLs of HNO3 to sample (407917-3) 11/10/15 @ 14:55 DDII. Results due within 10 business days. Due by 11/24/15.

Test	Method	Prep	Priority	Due Date	Location
Chloride (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
NO3 (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
P, Total	S 6010C	S 3010A	Normal	2015-11-20	Lubbock
Sample Prep - Metals Water	N/A	N/A	Normal	2015-11-20	Lubbock
TDS	SM 2540C	N/A	Normal	2015-11-20	El Paso
TKN	SM 4500-NH3 B,C	N/A	Normal	2015-11-20	Lubbock



# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9  
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200 East Sunset Rd., Suite E  
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Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

BioAquatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750  
Fax (972) 242-7750

Brandon & Clark  
3403 Industrial Blvd.  
Hobbs, NM 88240  
Tel (575) 392-7561  
Fax (575) 392-4508

email: lab@traceanalysis.com

**Company Name:** DWH United Fuel Solutions  
**Address:** (Street, City, Zip) 1281 Tower Trail Ln, El Paso, TX, 79907  
**Contact Person:** Rosalia Cavillon  
**Invoice to:** PO Box 10, 12560 Steen Dr, Mesquite NM 88068  
 (If different from above)  
**Project #:**  
**Project Name:** Organ Dairy  
**Sampler Signature:** *[Signature]*

**Phone #:** 915-854-8150  
**Fax #:**  
**E-mail:** rgulunochampun

## ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE	8021 / 602 / 8260 / 624	
BTEX	8021 / 602 / 8260 / 624	
TPH 418.1 / TX1005 / TX1005 Ext(C35)		
TPH 8015 GRO / DRO / TVHC		
PAH 8270 / 625		
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7		
TCLP Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Volatiles		
TCLP Semi Volatiles		
TCLP Pesticides		
RCI		
GC/MS Vol. 8260 / 624		
GC/MS Semi. Vol. 8270 / 625		
PCB's 8082 / 608		
Pesticides 8081 / 608		
BOD, TSS, pH		
Moisture Content		
Cl, F, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity		
Na, Ca, Mg, K, TDS, EC		
ATKIN SM HSD NOR&C	X	
Carbide CM 20.0	X	
TDS SM 2540 C MOD	X	
Phosphorus		X
Turn Around Time if different from standard		

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX						PRESERVATIVE METHOD			SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	NaOH	ICE	NONE	DATE	TIME	
407917-1	lageron	1	250					X		X				11-10-15	10:01
1-2	lageron	1	250							X					10:01
1-3	lageron	1	250					X		X					10:01

**Relinquished by:** *[Signature]* Company: DWH Date: 11-10-15 Time: 13:35  
**Received by:** *[Signature]* Company: DWH Date: 11-10-15 Time: 13:35  
**INST:** 12-1  
**OBS:** 2.7  
**COR:** 3.8

**Relinquished by:** *[Signature]* Company: DWH Date: 11-10-15 Time: 14:30  
**Received by:** *[Signature]* Company: DWH Date: 11-10-15 Time: 14:30  
**INST:** 12-3  
**OBS:** 2.7  
**COR:** 3.8

**REMARKS:**  
 Add HNO<sub>3</sub> to sample  
 407917-3 11-10-15 14:55  
 DWH (YML of HNO<sub>3</sub>)

**LAB USE ONLY**  
 Inlet  / N  
 Headspace  / N (NA)  
 Log-In-Review  (HRS)  
 Dry Weight Basis Required   
 TRRP Report Required   
 Check if Special Reporting Limits Are Needed

Carrier # 49367098

ORIGINAL COPY

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.





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## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Isaac Dominguez  
 Dominguez Dairy #1  
 13950 Stern Drive  
 P.O. Box 21  
 Mesquite, NM, 88048

Report Date: November 18, 2015

Work Order: 15111039



DP: 481195  
 Project Location: 13950 Stern Dr., Mesquite, NM  
 Project Name: Dominguez Dairy #1

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
407924	lagoon	water	2015-11-10	10:28	2015-11-10
407925	624-01	water	2015-11-10	11:24	2015-11-10
407926	624-02	water	2015-11-10	12:46	2015-11-10

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

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Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager



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## Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2015-11-10 and assigned to work order 15111039. Samples for work order 15111039 were received intact at a temperature of 3.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106847	2015-11-10 at 20:37	126273	2015-11-10 at 20:37
NO3 (IC)	E 300.0	106847	2015-11-10 at 20:37	126273	2015-11-10 at 20:37
TDS	SM 2540C	106892	2015-11-12 at 13:00	126325	2015-11-13 at 08:00
TKN	SM 4500-NH3 B,C	106880	2015-11-12 at 10:00	126307	2015-11-12 at 14:00

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111039 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 407924 - lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>3440</b>	<b>3440</b>	<0.930	mg/L	100	0.930	2.5	0.0093

**Sample: 407924 - lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1,4,5	<0.194	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 407924 - lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126325 Date Analyzed: 2015-11-13 Analyzed By: MC  
 Prep Batch: 106892 Sample Preparation: 2015-11-12 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>14900</b>	<b>14900</b>	<2500	mg/L	1000	2500	2.5	2.5

**Sample: 407924 - lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126307 Date Analyzed: 2015-11-12 Analyzed By: CF  
 Prep Batch: 106880 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	<b>192</b>	<b>192</b>	<2.36	mg/L	2	2.36	10	1.18

**Sample: 407925 - 624-01**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 126273      Date Analyzed: 2015-11-10      Analyzed By: JR  
 Prep Batch: 106847      Sample Preparation: 2015-11-10      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>703</b>	<b>703</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 407925 - 624-01**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 126273      Date Analyzed: 2015-11-10      Analyzed By: JR  
 Prep Batch: 106847      Sample Preparation: 2015-11-10      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>7.06</b>	<b>7.06</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 407925 - 624-01**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 126325      Date Analyzed: 2015-11-13      Analyzed By: MC  
 Prep Batch: 106892      Sample Preparation: 2015-11-12      Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2440</b>	<b>2440</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 407925 - 624-01**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126307 Date Analyzed: 2015-11-12 Analyzed By: CF  
 Prep Batch: 106880 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>3.36</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 407926 - 624-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>1050</b>	<b>1050</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 407926 - 624-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>17.2</b>	<b>17.2</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 407926 - 624-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126325 Date Analyzed: 2015-11-13 Analyzed By: MC  
 Prep Batch: 106892 Sample Preparation: 2015-11-12 Prepared By: MC

*continued . . .*

sample 407926 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>3290</b>	<b>3290</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 407926 - 624-02**

Laboratory: Lubbock  
Analysis: TKN  
QC Batch: 126307  
Prep Batch: 106880

Analytical Method: SM 4500-NH3 B,C  
Date Analyzed: 2015-11-12  
Sample Preparation:

Prep Method: N/A  
Analyzed By: CF  
Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126273  
Prep Batch: 106847Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126273  
Prep Batch: 106847Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126307  
Prep Batch: 106880Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

### Method Blank (1)

QC Batch: 126325  
Prep Batch: 106892Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-12Analyzed By: MC  
Prepared By: MC

Report Date: November 18, 2015

Work Order: 15111039  
Dominguez Dairy #1

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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

---



# Duplicates

**Duplicate (1)**    Duplicated Sample: 408030

QC Batch: 126325  
 Prep Batch: 106892

Date Analyzed: 2015-11-13  
 QC Preparation: 2015-11-12

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	4110	4260	mg/L	50	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126273  
Prep Batch: 106847Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.6	mg/L	1	25.0	<0.00930	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.8	mg/L	1	25.0	<0.00930	99	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126273  
Prep Batch: 106847Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.88	mg/L	1	5.00	<0.0387	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.90	mg/L	1	5.00	<0.0387	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126307  
Prep Batch: 106880Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	34.2	mg/L	1	40.0	<1.18	86	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.3	mg/L	1	40.0	<1.18	88	82.8 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126325  
Prep Batch: 106892

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-12

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	999	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	999	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 407925QC Batch: 126273  
Prep Batch: 106847Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10Analyzed By: JR  
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1,4,5	2140	mg/L	55.6	1390	703	103	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1,4,5	2160	mg/L	55.6	1390	703	105	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 407925QC Batch: 126273  
Prep Batch: 106847Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10Analyzed By: JR  
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1,4,5	284	mg/L	55.6	278	7.06	100	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1,4,5	287	mg/L	55.6	278	7.06	101	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 407926QC Batch: 126307  
Prep Batch: 106880Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12Analyzed By: CF  
Prepared By: CF

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2,3,6,7	35.8	mg/L	1	40.0	<1.18	90	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.3	mg/L	1	40.0	<1.18	88	77.9 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-2)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.1	100	90 - 110	2015-11-10

### Standard (CCV-2)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.98	100	90 - 110	2015-11-10

### Standard (CCV-3)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.3	101	90 - 110	2015-11-10

### Standard (CCV-3)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.00	100	90 - 110	2015-11-10

**Standard (CCV-4)**

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.0	100	90 - 110	2015-11-10

**Standard (CCV-4)**

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.01	100	90 - 110	2015-11-10

**Standard (CCV-5)**

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2015-11-10

**Standard (CCV-5)**

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.03	101	90 - 110	2015-11-10

**Standard (ICV-1)**

QC Batch: 126307

Date Analyzed: 2015-11-12

Analyzed By: CF

Report Date: November 18, 2015

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-11-12

---

**Standard (CCV-1)**

QC Batch: 126307

Date Analyzed: 2015-11-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.76	95	85 - 115	2015-11-12

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## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

---

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





## Sample Log

Work Orders 15111039 to 15111039

**Work Order:** 15111039

**Received:** 2015-11-10 at 13:35 by Denny de Haro  
**Customer:** Dominguez Dairy #1  
**Customer Contact:** Isaac Dominguez  
**Invoice To:** Dominguez Dairy #1  
**Invoice Contact:** Isaac Dominguez  
**Purchase Order:** N/A  
**Project:** Dominguez Dairy #1 481195  
**DP:** 481195  
**Project Location:** 13950 Stern Dr., Mesquite, NM  
**Project Name:** Dominguez Dairy #1

*JD*  
11-10-15

**Sample:** 407924 <sup>a</sup>      **Field Code:** lagoon      **Work Order:** 15111039  
**Matrix:** liquid/water      **Composition:** water      **Collected:** 2015-11-10 at 10:28

<sup>a</sup>Results due within 10 business days. Due by 11/24/15.

Test	Method	Prep	Priority	Due Date	Location
Chloride (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
NO3 (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
TDS	SM 2540C	N/A	Normal	2015-11-20	El Paso
TKN	SM 4500-NH3 B,C	N/A	Normal	2015-11-20	Lubbock

**Sample:** 407925 <sup>a</sup>      **Field Code:** 624-01      **Work Order:** 15111039  
**Matrix:** liquid/water      **Composition:** water      **Collected:** 2015-11-10 at 11:24

<sup>a</sup>Results due within 10 business days. Due by 11/24/15.

Test	Method	Prep	Priority	Due Date	Location
Chloride (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
NO3 (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
TDS	SM 2540C	N/A	Normal	2015-11-20	El Paso
TKN	SM 4500-NH3 B,C	N/A	Normal	2015-11-20	Lubbock

**Sample:** 407926 <sup>a</sup>      **Field Code:** 624-02      **Work Order:** 15111039  
**Matrix:** liquid/water      **Composition:** water      **Collected:** 2015-11-10 at 12:46

<sup>a</sup>Results due within 10 business days. Due by 11/24/15.

Test	Method	Prep	Priority	Due Date	Location
Chloride (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
NO3 (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
TDS	SM 2540C	N/A	Normal	2015-11-20	El Paso
TKN	SM 4500-NH3 B,C	N/A	Normal	2015-11-20	Lubbock





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Tim Hyde  
 Bright Star Dairy  
 13520 Stern Dr.  
 P.O. Box 167  
 Mesquite, NM, 88048

Report Date: November 18, 2015

Work Order: 15111034



Project Location: 13520 Stern Drive, Mesquite , NM  
 Project Name: Bright Star Dairy  
 Project Number: 481238

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
407914	70/86/340	water	2015-11-10	08:56	2015-11-10
407915	86/340	water	2015-11-10	08:04	2015-11-10
407916	340 Lagoon	water	2015-11-10	09:28	2015-11-10

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager



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## Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2015-11-10 and assigned to work order 15111034. Samples for work order 15111034 were received intact at a temperature of 3.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106847	2015-11-10 at 20:37	126273	2015-11-10 at 20:37
NO3 (IC)	E 300.0	106847	2015-11-10 at 20:37	126273	2015-11-10 at 20:37
P, Total	S 6010C	106835	2015-11-11 at 14:32	126308	2015-11-12 at 15:47
SO4 (IC)	E 300.0	106847	2015-11-10 at 20:37	126273	2015-11-10 at 20:37
TDS	SM 2540C	106892	2015-11-12 at 13:00	126325	2015-11-13 at 08:00
TKN	SM 4500-NH3 B,C	106878	2015-11-12 at 10:00	126306	2015-11-12 at 14:00
TKN	SM 4500-NH3 B,C	106880	2015-11-12 at 10:00	126307	2015-11-12 at 14:00

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111034 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 407914 - 70/86/340

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>1740</b>	<b>1740</b>	<0.465	mg/L	50	0.465	2.5	0.0093

## Sample: 407914 - 70/86/340

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>16.0</b>	<b>16.0</b>	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 407914 - 70/86/340

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1,4,6	<b>1010</b>	<b>1010</b>	<1.94	mg/L	50	1.94	2.5	0.0389

## Sample: 407914 - 70/86/340

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126325 Date Analyzed: 2015-11-13 Analyzed By: MC  
 Prep Batch: 106892 Sample Preparation: 2015-11-12 Prepared By: MC



Report Date: November 18, 2015  
481238

Work Order: 15111034  
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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Dissolved Solids		1,4,6	<b>4940</b>	<b>4940</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 407914 - 70/86/340**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
 Prep Batch: 106878 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 407915 - 86/340**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Chloride		1,4,6	<b>421</b>	<b>421</b>	<0.0930	mg/L	10	0.0930	2.5	0.0093

**Sample: 407915 - 86/340**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Nitrate-N		1,4,6	<b>11.7</b>	<b>11.7</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 407915 - 86/340**

Report Date: November 18, 2015  
481238

Work Order: 15111034  
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Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1,4,6	<b>747</b>	<b>747</b>	<0.778	mg/L	20	0.778	2.5	0.0389

**Sample: 407915 - 86/340**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126325 Date Analyzed: 2015-11-13 Analyzed By: MC  
 Prep Batch: 106892 Sample Preparation: 2015-11-12 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	<b>2260</b>	<b>2260</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 407915 - 86/340**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
 Prep Batch: 106878 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,8	<b>2.24</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 407916 - 340 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

*continued ...*

sample 407916 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	<b>1320</b>	<b>1320</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 407916 - 340 Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126273 Date Analyzed: 2015-11-10 Analyzed By: JR  
 Prep Batch: 106847 Sample Preparation: 2015-11-10 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	<b>2.59</b>	<b>2.59</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 407916 - 340 Lagoon**

Laboratory: Lubbock  
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A  
 QC Batch: 126308 Date Analyzed: 2015-11-12 Analyzed By: RR  
 Prep Batch: 106835 Sample Preparation: 2015-11-12 Prepared By: RR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Phosphorous		3,5,7,8	<b>75.7</b>	<b>75.7</b>	<0.0194	mg/L	5	0.0194	0.5	0.00389

**Sample: 407916 - 340 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126325 Date Analyzed: 2015-11-13 Analyzed By: MC  
 Prep Batch: 106892 Sample Preparation: 2015-11-12 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>5800</b>	<b>5800</b>	<500	mg/L	200	500	2.5	2.5

Report Date: November 18, 2015  
481238

Work Order: 15111034  
Bright Star Dairy

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**Sample: 407916 - 340 Lagoon**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 126307

Prep Batch: 106880

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2015-11-12

Sample Preparation:

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	<b>251</b>	<b>251</b>	<2.36	mg/L	2	2.36	10	1.18



## Method Blanks

### Method Blank (1)

QC Batch: 126273  
Prep Batch: 106847

Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126273  
Prep Batch: 106847

Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126273  
Prep Batch: 106847

Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1,4,6	<0.0389	mg/L	0.0389

### Method Blank (1)

QC Batch: 126306  
Prep Batch: 106878

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: CF  
Prepared By: CF

Report Date: November 18, 2015  
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Work Order: 15111034  
Bright Star Dairy

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.18	mg/L	1.18

#### Method Blank (1)

QC Batch: 126307  
Prep Batch: 106880

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.18	mg/L	1.18

#### Method Blank (1)

QC Batch: 126308  
Prep Batch: 106835

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-11

Analyzed By: RR  
Prepared By: PM

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		3,5,7,8	<0.00389	mg/L	0.00389

#### Method Blank (1)

QC Batch: 126325  
Prep Batch: 106892

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-12

Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<25.0	mg/L	2.5

# Duplicates

Duplicate (1) Duplicated Sample: 408030

QC Batch: 126325  
Prep Batch: 106892

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-12

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	4110	4260	mg/L	50	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126273  
Prep Batch: 106847

Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	24.6	mg/L	1	25.0	<0.00930	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	24.8	mg/L	1	25.0	<0.00930	99	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126273  
Prep Batch: 106847

Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.88	mg/L	1	5.00	<0.0387	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.90	mg/L	1	5.00	<0.0387	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126273  
Prep Batch: 106847

Date Analyzed: 2015-11-10  
QC Preparation: 2015-11-10

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,6	24.6	mg/L	1	25.0	<0.0389	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.





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481238

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,8	0.449	mg/L	1	0.500	<0.00389	90	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		3,5,7,8	0.465	mg/L	1	0.500	<0.00389	93	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Laboratory Control Spike (LCS-1)

QC Batch: 126325  
Prep Batch: 106892

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-12

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	999	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	999	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

## Matrix Spike (MS-1) Spiked Sample: 407915

QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
Prep Batch: 106878 QC Preparation: 2015-11-12 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	37.5	mg/L	1	40.0	2.24	88	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	38.1	mg/L	1	40.0	2.24	90	77.9 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (MS-1) Spiked Sample: 407926

QC Batch: 126307 Date Analyzed: 2015-11-12 Analyzed By: CF  
Prep Batch: 106880 QC Preparation: 2015-11-12 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	35.8	mg/L	1	40.0	<1.18	90	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	35.3	mg/L	1	40.0	<1.18	88	77.9 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (xMS-1) Spiked Sample: 407847

QC Batch: 126308 Date Analyzed: 2015-11-12 Analyzed By: RR  
Prep Batch: 106835 QC Preparation: 2015-11-11 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,8	0.581	mg/L	1	0.500	0.197	77	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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481238

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		3,5,7,8	0.653	mg/L	1	0.500	0.197	91	75 - 125	12	20

---

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



# Calibration Standards

## Standard (CCV-1)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.9	100	90 - 110	2015-11-10

## Standard (CCV-1)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.94	99	90 - 110	2015-11-10

## Standard (CCV-1)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.0	100	90 - 110	2015-11-10

## Standard (CCV-2)

QC Batch: 126273

Date Analyzed: 2015-11-10

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.1	100	90 - 110	2015-11-10



Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2015-11-12

**Standard (CCV-1)**

QC Batch: 126306

Date Analyzed: 2015-11-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.76	95	85 - 115	2015-11-12

**Standard (ICV-1)**

QC Batch: 126307

Date Analyzed: 2015-11-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2015-11-12

**Standard (CCV-1)**

QC Batch: 126307

Date Analyzed: 2015-11-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.76	95	85 - 115	2015-11-12

**Standard (ICV-1)**

QC Batch: 126308

Date Analyzed: 2015-11-12

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		3,5,7,8	mg/L	5.00	5.05	101	90 - 110	2015-11-12

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**Standard (CCV-1)**

QC Batch: 126308

Date Analyzed: 2015-11-12

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		3,5,7,8	mg/L	5.00	5.13	103	90 - 110	2015-11-12

---



## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.104	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

---

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-15-6	El Paso
7	NELAP	T104704219-15-11	Lubbock
8		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

---

F Description

---

U The analyte is not detected above the SDL

---

## Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

6701 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

155 McCutcheon, Ste. H El  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
LAB Order ID # 1511034 Page      of     

Company Name: Phone #: 915-859-8150

D&H Petroleum & Environmental Services Cell #:

Address: (Street, City, Zip) Fax #:

1221 Tower Trail Ln., El Paso, Texas 79907 E-mail: vayala@dhpump.com

Contact Person: Victor Ayala

Invoice to (if different from above):

Bright Star Dairy, P.O. Box 167, Mesquite, NM 88048

Project #: 4181236

Project Name: Bright Star Dairy

Project Location (including state): Bright Star Dairy, 13520 Stern Drive, Mesquite, NM

Sampler Signature: guy

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		TIME	Hold	
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE			TIME
		1		X			X			X						
		1		X			X			X						
		1		X			X			X						
		1		X			X			X						
		1	250	X			X			X			11-10-15	8:56		
		1		X			X			X				8:56		
		1		X			X			X				8:04		
		1		X			X			X				8:04		
		1		X			X			X				9:28		
		1		X			X			X				9:28		
		1		X			X			X				9:28		
		1		X			X			X				9:28		
		1		X			X			X				9:28		
		1		X			X			X				9:28		

Relinquished By: guy Date: 11-10-15 Time: 13:35 Received By: DJ dh H Date: 11-10-15 Time: 17:35

Relinquished By: DJ dh H Date: 11-10-15 Time: 16:30 Received at Laboratory By: DJ dh H Date: 11-10-15 Time: 17:35

Lab Use Only  
Intact Y/N  
Headspace Y/N  
Temp 12.3 5.5 3.2  
Log-in Review Y/N

Remarks:  
Added 4mL of HNO3 SAMPLE  
407914-3 11-10-15 @ 14:55 @ DJ

Dry Weight Basis Required  
TRRP Report Required  
11-10-15



## Sample Log

Work Orders 15111034 to 15111034

**Work Order:** 15111034

**Received:** 2015-11-10 at 13:35 by Denny de Haro  
**Customer:** Bright Star Dairy  
**Customer Contact:** Tim Hyde  
**Invoice To:** Bright Star Dairy  
**Invoice Contact:** Tim Hyde  
**Purchase Order:** N/A  
**Project:** Bright Star Dairy # 481238  
**Project Location:** 13520 Stern Drive, Mesquite, NM  
**Project Name:** Bright Star Dairy  
**Project Number:** 481238

*Handwritten signature and date: 11-10-15*

**Sample:** 407914 <sup>a</sup>      **Field Code:** 70/86/340      **Work Order:** 15111034  
**Matrix:** liquid/water      **Composition:** water      **Collected:** 2015-11-10 at 08:56

<sup>a</sup>Results due within 10 business days. Due by 11/24/15.

Test	Method	Prep	Priority	Due Date	Location
Chloride (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
NO3 (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
TDS	SM 2540C	N/A	Normal	2015-11-20	El Paso
TKN	SM 4500-NH3 B,C	N/A	Normal	2015-11-20	Lubbock

**Sample:** 407915 <sup>a</sup>      **Field Code:** 86/340      **Work Order:** 15111034  
**Matrix:** liquid/water      **Composition:** water      **Collected:** 2015-11-10 at 08:04

<sup>a</sup>Results due within 10 business days. Due by 11/24/15.

Test	Method	Prep	Priority	Due Date	Location
Chloride (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
NO3 (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
TDS	SM 2540C	N/A	Normal	2015-11-20	El Paso
TKN	SM 4500-NH3 B,C	N/A	Normal	2015-11-20	Lubbock

**Sample:** 407916 <sup>a</sup>      **Field Code:** 340 Lagoon      **Work Order:** 15111034  
**Matrix:** liquid/water      **Composition:** water      **Collected:** 2015-11-10 at 09:28

<sup>a</sup>Added 4mLs of HNO3 to sample (407917-3) 11/10/15 @ 14:55 DDH. Results due within 10 business days. Due by 11/24/15.

Test	Method	Prep	Priority	Due Date	Location
Chloride (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
NO3 (IC)	E 300.0	N/A	Normal	2015-11-20	El Paso
P, Total	S 6010C	S 3010A	Normal	2015-11-20	Lubbock
Sample Prep - Metals Water	N/A	N/A	Normal	2015-11-20	Lubbock
TDS	SM 2540C	N/A	Normal	2015-11-20	El Paso
TKN	SM 4500-NH3 B,C	N/A	Normal	2015-11-20	Lubbock





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 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Linda Armstrong  
 Buena Vista Dairy #2  
 16910 Stern Drive  
 P.O. Box 346  
 Mesquite, NM, 88048

Report Date: November 20, 2015

Work Order: 15111135



Project Location: 16910 Stern Drive, Mesquite, NM  
 Project Name: Buena Vista Dairy #2  
 Project Number: 481199

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408036	74-02	Water	2015-11-11	12:56	2015-11-11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 17 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager



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## Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2015-11-11 and assigned to work order 1511135. Samples for work order 1511135 were received intact at a temperature of 1.6 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106886	2015-11-11 at 19:03	126313	2015-11-11 at 19:03
NO3 (IC)	E 300.0	106886	2015-11-11 at 19:03	126313	2015-11-11 at 19:03
TDS	SM 2540C	106991	2015-11-17 at 12:50	126428	2015-11-18 at 08:20
TKN	SM 4500-NH3 B,C	106941	2015-11-16 at 10:20	126377	2015-11-16 at 14:30

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 1511135 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 408036 - 74-02

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>562</b>	<b>562</b>	<0.186	mg/L	20	0.186	2.5	0.0093

## Sample: 408036 - 74-02

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>22.5</b>	<b>22.5</b>	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 408036 - 74-02

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126428 Date Analyzed: 2015-11-18 Analyzed By: MC  
 Prep Batch: 106991 Sample Preparation: 2015-11-17 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	<b>2120</b>	<b>2120</b>	<125	mg/L	50	125	2.5	2.5

## Sample: 408036 - 74-02

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126377 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106941 Sample Preparation: Prepared By: CF

Report Date: November 20, 2015  
481199

Work Order: 15111135  
Buena Vista Dairy #2

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Total Kjeldahl Nitrogen - N		2,3,7,8	<b>14.0</b>	<b>14.0</b>	<1.18	mg/L	1	1.18	10	1.18

---



## Method Blanks

### Method Blank (1)

QC Batch: 126313  
Prep Batch: 106886

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-11

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126313  
Prep Batch: 106886

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-11

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126377  
Prep Batch: 106941

Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.18	mg/L	1.18

### Method Blank (1)

QC Batch: 126428  
Prep Batch: 106991

Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-17

Analyzed By: MC  
Prepared By: MC

Report Date: November 20, 2015  
481199

Work Order: 15111135  
Buena Vista Dairy #2

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16910 Stern Drive, Mesquite, NM

---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<25.0	mg/L	2.5

---

# Duplicates

Duplicate (1) Duplicated Sample: 408032

QC Batch: 126428  
Prep Batch: 106991

Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-17

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2580	2760	mg/L	50	7	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126313  
Prep Batch: 106886

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-11

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.0	mg/L	1	25.0	<0.00930	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.1	mg/L	1	25.0	<0.00930	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126313  
Prep Batch: 106886

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-11

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.95	mg/L	1	5.00	<0.0387	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.96	mg/L	1	5.00	<0.0387	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126377  
Prep Batch: 106941

Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	40.3	mg/L	1	40.0	<1.18	101	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	38.6	mg/L	1	40.0	<1.18	96	82.8 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126428  
Prep Batch: 106991

Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-17

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	998	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	997	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 408168

QC Batch: 126377  
Prep Batch: 106941

Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.2	mg/L	1	40.0	8.4	90	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	42.6	mg/L	1	40.0	8.4	86	77.9 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.







## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

---

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-15-6	El Paso
7	NELAP	T104704219-15-11	Lubbock
8		2015-066	Lubbock

---

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

---

F Description

U The analyte is not detected above the SDL

---

## Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
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El Paso, Texas 79922  
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Brandon & Clark  
3403 Industrial Blvd.  
Hobbs, NM 88240  
Tel (575) 392-7561  
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email: lab@traceanalysis.com

Company Name: DWH United Fuel Solutions  
Address: (Street, City, Zip)  
1221 Tower Trail Ln, El Paso, TX, 79907  
Contact Person: Rosalio Guillen  
Phone #: 915-859-8150  
Fax #: rqwilendh.pump.com  
E-mail:

Invoice to: Buen Vista II  
(If different from above) Buen Vista II PO Box 346, Mesquite, NM  
Project #: 401199  
Project Name: Buen Vista II  
Project Location (including state): 1690 Sten Dr, Mesquite, NM  
Sampler Signature: gwg

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH		
408036-1	74-02	1	250	X				X			X	11-11	1256
1-2	74-02	1	250	X				X			X	11-11	1256

## ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE	8021 / 602 / 8260 / 624	
BTEX	8021 / 602 / 8260 / 624	
TPH 418.1 / TX1005 / TX1005 Ext(C35)		
TPH 8015 GRO / DRO / TVHC		
PAH 8270 / 625		
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7		
TCLP Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Volatiles		
TCLP Semi Volatiles		
TCLP Pesticides		
RCI		
GC/MS Vol. 8260 / 624		
GC/MS Semi. Vol. 8270 / 625		
PCB's 8082 / 608		
Pesticides 8081 / 608		
BOD, TSS, pH		
Moisture Content		
Cl, F, SO <sub>4</sub> , NO <sub>3</sub> , N, NO <sub>2</sub> , N, PO <sub>4</sub> , P, Alkalinity		X
Na, Ca, Mg, K, TDS, EC		X
TKN SM HSTC NR6 C		X
Chloride EM 300		X
TDS SM 2540 C MOD		X
Turn Around Time if different from standard		

Relinquished by: gwg Company: DWH Date: 11/11/15 Time: 13:50  
 Relinquished by: MRC Company: TJEP Date: 11-11-15 Time: 13:50  
 Relinquished by: MRC Company: TJEP Date: 11-11-15 Time: 16:30

Received by: MRC Company: TJEP Date: 11-11-15 Time: 13:50  
 Received by: Blondy Company: TJ Date: 11/11/15 Time: 9:20  
 Received by: Ward Company: Lubbock Date: 11/11/15 Time: 9:20

INST: 11-11-15  
 OBS: 11-11-15  
 COR: 11-11-15

REMARKS: on file

LAB USE ONLY

Intact  N  
 Headspace  Y /  N/A

Log-in-Review  (11-15)

Dry Weight Basis Required   
 TRRP Report Required   
 Check if Special Reporting Limits Are Needed

Carrier # Caddy In 25 1936 7099





6701 Aberdeen Avenue, Suite 9      Lubbock, Texas 79424      800-378-1296      806-794-1296      FAX 806-794-1298  
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 (BioAquatic) 2501 Mayes Rd., Suite 100      Carrollton, Texas 75006      972-242-7750  
 E-Mail: lab@traceanalysis.com      WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Joe Gonzalez  
 Gonzalez Farmes  
 14310 Stern Drive  
 P.O. Box 199  
 Mesquite, NM, 88048

Report Date: November 20, 2015

Work Order: 15111134



Project Location: 14310 Stern Dr., Mesquite, NM  
 Project Name: Gonzalez Dairy Inc.  
 Project Number: 481239

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408030	177-01	Water	2015-11-11	10:56	2015-11-11
408031	177-02	Water	2015-11-11	11:30	2015-11-11
408032	177-03	Water	2015-11-11	08:12	2015-11-11
408033	177-04	Water	2015-11-11	09:06	2015-11-11
408034	177-05	Water	2015-11-11	09:54	2015-11-11
408035	177-07 R	Water	2015-11-11	12:21	2015-11-11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 23 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Gonzalez Dairy Inc. were received by TraceAnalysis, Inc. on 2015-11-11 and assigned to work order 15111134. Samples for work order 15111134 were received intact at a temperature of 1.6 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106886	2015-11-11 at 19:03	126313	2015-11-11 at 19:03
NO3 (IC)	E 300.0	106886	2015-11-11 at 19:03	126313	2015-11-11 at 19:03
TDS	SM 2540C	106892	2015-11-12 at 13:00	126325	2015-11-13 at 08:00
TDS	SM 2540C	106991	2015-11-17 at 12:50	126428	2015-11-18 at 08:20
TKN	SM 4500-NH3 B,C	106941	2015-11-16 at 10:20	126377	2015-11-16 at 14:30

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111134 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

## Sample: 408030 - 177-01

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>1370</b>	<b>1370</b>	<0.465	mg/L	50	0.465	2.5	0.0093

## Sample: 408030 - 177-01

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>30.3</b>	<b>30.3</b>	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 408030 - 177-01

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126325 Date Analyzed: 2015-11-13 Analyzed By: MC  
 Prep Batch: 106892 Sample Preparation: 2015-11-12 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>4260</b>	<b>4260</b>	<125	mg/L	50	125	2.5	2.5

## Sample: 408030 - 177-01

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126377 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106941 Sample Preparation: Prepared By: CF

Report Date: November 20, 2015  
481239

Work Order: 15111134  
Gonzalez Dairy Inc.

Page Number: 6 of 23  
14310 Stern Dr., Mesquite, NM

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408031 - 177-02**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 126313      Date Analyzed: 2015-11-11      Analyzed By: JR  
 Prep Batch: 106886      Sample Preparation: 2015-11-11      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>824</b>	<b>824</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408031 - 177-02**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 126313      Date Analyzed: 2015-11-11      Analyzed By: JR  
 Prep Batch: 106886      Sample Preparation: 2015-11-11      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>20.3</b>	<b>20.3</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408031 - 177-02**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 126325      Date Analyzed: 2015-11-13      Analyzed By: MC  
 Prep Batch: 106892      Sample Preparation: 2015-11-12      Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2800</b>	<b>2800</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408031 - 177-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126377 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106941 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408032 - 177-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>821</b>	<b>821</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408032 - 177-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>5.67</b>	<b>5.67</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408032 - 177-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126428 Date Analyzed: 2015-11-18 Analyzed By: MC  
 Prep Batch: 106991 Sample Preparation: 2015-11-17 Prepared By: MC

*continued . . .*

sample 408032 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2760</b>	<b>2760</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408032 - 177-03**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126377 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106941 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408033 - 177-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>1360</b>	<b>1360</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408033 - 177-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR



Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>19.3</b>	<b>19.3</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408033 - 177-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126428 Date Analyzed: 2015-11-18 Analyzed By: MC  
 Prep Batch: 106991 Sample Preparation: 2015-11-17 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>4080</b>	<b>4080</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408033 - 177-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126377 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106941 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>7.28</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408034 - 177-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>1230</b>	<b>1230</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408034 - 177-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>30.8</b>	<b>30.8</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408034 - 177-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126428 Date Analyzed: 2015-11-18 Analyzed By: MC  
 Prep Batch: 106991 Sample Preparation: 2015-11-17 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>3840</b>	<b>3840</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408034 - 177-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126377 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106941 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>7.28</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408035 - 177-07 R**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR

*continued ...*

sample 408035 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>1110</b>	<b>1110</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408035 - 177-07 R**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126313 Date Analyzed: 2015-11-11 Analyzed By: JR  
 Prep Batch: 106886 Sample Preparation: 2015-11-11 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>37.1</b>	<b>37.1</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408035 - 177-07 R**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126428 Date Analyzed: 2015-11-18 Analyzed By: MC  
 Prep Batch: 106991 Sample Preparation: 2015-11-17 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>3480</b>	<b>3480</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408035 - 177-07 R**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126377 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106941 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	<b>12.9</b>	<b>12.9</b>	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126313  
Prep Batch: 106886

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-11

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126313  
Prep Batch: 106886

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-11

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126325  
Prep Batch: 106892

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-12

Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126377  
Prep Batch: 106941

Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16

Analyzed By: CF  
Prepared By: CF



Report Date: November 20, 2015  
481239

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

---

**Method Blank (1)**

QC Batch: 126428  
Prep Batch: 106991

Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-17

Analyzed By: MC  
Prepared By: MC

---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

---



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126313  
Prep Batch: 106886

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-11

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	25.0	mg/L	1	25.0	<0.00930	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	25.1	mg/L	1	25.0	<0.00930	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126313  
Prep Batch: 106886

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-11

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.95	mg/L	1	5.00	<0.0387	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.96	mg/L	1	5.00	<0.0387	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126325  
Prep Batch: 106892

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-12

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	999	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	999	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126377  
Prep Batch: 106941

Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	40.3	mg/L	1	40.0	<1.18	101	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	38.6	mg/L	1	40.0	<1.18	96	82.8 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126428  
Prep Batch: 106991

Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-17

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	998	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	997	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 408168

QC Batch: 126377  
Prep Batch: 106941

Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.2	mg/L	1	40.0	8.4	90	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	42.6	mg/L	1	40.0	8.4	86	77.9 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



# Calibration Standards

## Standard (CCV-1)

QC Batch: 126313

Date Analyzed: 2015-11-11

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.4	98	90 - 110	2015-11-11

## Standard (CCV-1)

QC Batch: 126313

Date Analyzed: 2015-11-11

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.96	99	90 - 110	2015-11-11

## Standard (CCV-2)

QC Batch: 126313

Date Analyzed: 2015-11-11

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.2	101	90 - 110	2015-11-11

## Standard (CCV-2)

QC Batch: 126313

Date Analyzed: 2015-11-11

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.03	101	90 - 110	2015-11-11



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481239

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14310 Stern Dr., Mesquite, NM

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.90	98	85 - 115	2015-11-16

---

**Standard (CCV-1)**

QC Batch: 126377

Date Analyzed: 2015-11-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	5.04	101	85 - 115	2015-11-16

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

---

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---



## **Attachments**

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

6707 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

155 McCutcheon, Ste. H  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Page 1 of 1  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1571134

Phone #: 915-859-8150  
Cell #:   
Fax #:   
E-mail: vajala@dhpump.com

Company Name:   
D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln, El Paso TX 79907

Contact Person:   
Victor Ayala

Invoice to (if different from above):

Gonzalez Dairy, PO Box 199, Mesquite, NM 88048

Project #: 481834

Project Name:   
Gonzalez Dairy Inc.

Project Location (including state):   
Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM

Sampler Signature: *[Signature]*

LAB #	(LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		TIME	Turn Around Time	
					WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE			NONE
408230-1	1	177-01	1	250	X					X	X	X		11-11-15	10:56	
1-2	1	177-01	1		X					X	X	X		10:56		
031-1	1	177-02	1		X					X	X	X		11:36		
1-2	1	177-02	1		X					X	X	X		11:30		
032-1	1	177-03	1		X					X	X	X		8:12		
1-2	1	177-03	1		X					X	X	X		8:12		
033-1	1	177-04	1		X					X	X	X		9:06		
1-2	1	177-04	1		X					X	X	X		9:06		
034-1	1	177-05	1		X					X	X	X		9:54		
1-2	1	177-05	1		X					X	X	X		9:54		
481834-1	1	177-06	1		X					X	X	X		9:54		
1-2	1	177-06	1		X					X	X	X		9:54		
035-1	1	177-07 R	1		X					X	X	X		12:21		
1-2	1	177-07 R	1		X					X	X	X		12:21		

### ANALYSIS REQUEST

MTBE 8021B/602																	
BTEX 8021B/602																	
TPH 418.1 / TX1005																	
TX 1005 Extended (C35)																	
PAH 8270C																	
PAH 8270 (Low Level Analysis)																	
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	X																
Nitrate EPA 300	X																
TKN SM 4500 NORG C	X																
Chloride EPA 300	X																
Total Dissolved Solids SM 2540 C MOD	X																

Relinquished By: *[Signature]* Date: 11-11-15 Time: 13:50

Received By: *[Signature]* Date: 11-11-15 Time: 13:30

Relinquished By: *[Signature]* Date: 11-11-15 Time: 15:16:30

Received at Laboratory By: *[Signature]* Date: 3/9/15 Time: 9:00

Lab Use Only: Intact  Headspace  Temp  Log-in Review

Remarks: *on Dec. 12 18/1.6 25 49367099*

Dry Weight Basis Required  TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Fernie Franco  
Buena Vista Dairy #2  
16910 Stern Drive  
P.O. Box 346  
Mesquite, NM, 88048

Report Date: November 23, 2015

Work Order: 15111235



Project Location: 16910 Stern Drive, Mesquite, NM  
Project Name: Buena Vista Dairy #2  
Project Number: 481199

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408175	74-01	water	2015-11-12	08:41	2015-11-12
408176	74-3	water	2015-11-12	08:05	2015-11-12
408177	74-4	water	2015-11-12	09:28	2015-11-12
408178	74-5	water	2015-11-12	10:18	2015-11-12

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 26 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2015-11-12 and assigned to work order 15111235. Samples for work order 15111235 were received intact at a temperature of 2.80 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106894	2015-11-12 at 20:01	126327	2015-11-12 at 20:01
NO3 (IC)	E 300.0	106894	2015-11-12 at 20:01	126327	2015-11-12 at 20:01
SO4 (IC)	E 300.0	106894	2015-11-12 at 20:01	126327	2015-11-12 at 20:01
TDS	SM 2540C	107019	2015-11-18 at 13:40	126460	2015-11-19 at 07:46
TKN	SM 4500-NH3 B,C	106943	2015-11-16 at 10:20	126379	2015-11-16 at 14:30
TKN	SM 4500-NH3 B,C	107063	2015-11-20 at 11:40	126516	2015-11-20 at 15:30

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111235 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 408175 - 74-01

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2015-11-12	Analyzed By:	JR
QC Batch:	126327	Sample Preparation:	2015-11-12	Prepared By:	JR
Prep Batch:	106894				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>725</b>	<b>725</b>	<0.465	mg/L	50	0.465	2.5	0.0093

## Sample: 408175 - 74-01

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	NO3 (IC)	Date Analyzed:	2015-11-12	Analyzed By:	JR
QC Batch:	126327	Sample Preparation:	2015-11-12	Prepared By:	JR
Prep Batch:	106894				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>15.9</b>	<b>15.9</b>	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 408175 - 74-01

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	SO4 (IC)	Date Analyzed:	2015-11-12	Analyzed By:	JR
QC Batch:	126327	Sample Preparation:	2015-11-12	Prepared By:	JR
Prep Batch:	106894				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Sulfate		1,4,5	<b>444</b>	<b>444</b>	<0.389	mg/L	10	0.389	2.5	0.0389

## Sample: 408175 - 74-01

Laboratory:	El Paso	Analytical Method:	SM 2540C	Prep Method:	N/A
Analysis:	TDS	Date Analyzed:	2015-11-19	Analyzed By:	MC
QC Batch:	126460	Sample Preparation:	2015-11-18	Prepared By:	MC
Prep Batch:	107019				

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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2630</b>	<b>2630</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408175 - 74-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126379 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106943 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	<b>12.3</b>	<b>12.3</b>	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408176 - 74-3**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>1000</b>	<b>1000</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408176 - 74-3**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1,4,5	<0.194	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408176 - 74-3**

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Laboratory: El Paso  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,5	<b>842</b>	<b>842</b>	<1.94	mg/L	50	1.94	2.5	0.0389

**Sample: 408176 - 74-3**

Laboratory: El Paso  
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
QC Batch: 126460 Date Analyzed: 2015-11-19 Analyzed By: MC  
Prep Batch: 107019 Sample Preparation: 2015-11-18 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>3480</b>	<b>3480</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408176 - 74-3**

Laboratory: Lubbock  
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
QC Batch: 126379 Date Analyzed: 2015-11-16 Analyzed By: CF  
Prep Batch: 106943 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>3.36</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408177 - 74-4**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

*continued ...*



sample 408177 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>584</b>	<b>584</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408177 - 74-4**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>13.5</b>	<b>13.5</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408177 - 74-4**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,5	<b>342</b>	<b>342</b>	<0.389	mg/L	10	0.389	2.5	0.0389

**Sample: 408177 - 74-4**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126460 Date Analyzed: 2015-11-19 Analyzed By: MC  
 Prep Batch: 107019 Sample Preparation: 2015-11-18 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2040</b>	<b>2040</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408177 - 74-4**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126379 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106943 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>2.24</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408178 - 74-5**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>561</b>	<b>561</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408178 - 74-5**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>15.4</b>	<b>15.4</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408178 - 74-5**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,5	<b>340</b>	<b>340</b>	<0.389	mg/L	10	0.389	2.5	0.0389

**Sample: 408178 - 74-5**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126460 Date Analyzed: 2015-11-19 Analyzed By: MC  
 Prep Batch: 107019 Sample Preparation: 2015-11-18 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2020</b>	<b>2020</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408178 - 74-5**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1,4,5	<0.0389	mg/L	0.0389

### Method Blank (1)

QC Batch: 126379  
Prep Batch: 106943

Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16

Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

**Method Blank (1)**

QC Batch: 126460  
Prep Batch: 107019

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18

Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

**Method Blank (1)**

QC Batch: 126516  
Prep Batch: 107063

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18



# Duplicates

Duplicate (1) Duplicated Sample: 408376

QC Batch: 126460  
Prep Batch: 107019

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2300	2400	mg/L	50	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.5	mg/L	1	25.0	<0.00930	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.5	mg/L	1	25.0	<0.00930	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.86	mg/L	1	5.00	<0.0387	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.86	mg/L	1	5.00	<0.0387	97	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,5	24.6	mg/L	1	25.0	<0.0389	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfate		1,4,5	24.6	mg/L	1	25.0	<0.0389	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126379  
Prep Batch: 106943

Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	40.9	mg/L	1	40.0	<1.18	102	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2,3,6,7	38.1	mg/L	1	40.0	<1.18	95	82.8 - 115	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126460  
Prep Batch: 107019

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1,4,5	996	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1,4,5	1000	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126516  
Prep Batch: 107063

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

## Matrix Spike (MS-1) Spiked Sample: 408170

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	2040	mg/L	55.6	1390	604	103	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	2060	mg/L	55.6	1390	604	105	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (MS-1) Spiked Sample: 408170

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	311	mg/L	55.6	278	28.9	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	309	mg/L	55.6	278	28.9	101	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (MS-1) Spiked Sample: 408170

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,5	2020	mg/L	55.6	1390	589	103	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		1,4,5	2010	mg/L	55.6	1390	589	102	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408177

QC Batch: 126379 Date Analyzed: 2015-11-16 Analyzed By: CF  
Prep Batch: 106943 QC Preparation: 2015-11-16 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.1	mg/L	1	40.0	2.24	102	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	40.0	2.24	106	77.9 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408433

QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
Prep Batch: 107063 QC Preparation: 2015-11-20 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	38.1	mg/L	1	40.0	1.68	91	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	37.0	mg/L	1	40.0	1.68	88	77.9 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Calibration Standards

## Standard (CCV-2)

QC Batch: 126327

Date Analyzed: 2015-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.2	101	90 - 110	2015-11-12

## Standard (CCV-2)

QC Batch: 126327

Date Analyzed: 2015-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.01	100	90 - 110	2015-11-12

## Standard (CCV-2)

QC Batch: 126327

Date Analyzed: 2015-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,5	mg/L	25.0	25.3	101	90 - 110	2015-11-12

## Standard (CCV-3)

QC Batch: 126327

Date Analyzed: 2015-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.1	100	90 - 110	2015-11-12





**Standard (CCV-1)**

QC Batch: 126379

Date Analyzed: 2015-11-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	5.18	104	85 - 115	2015-11-16

**Standard (ICV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.76	95	85 - 115	2015-11-20

**Standard (CCV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	5.04	101	85 - 115	2015-11-20



## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.104	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

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## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

---

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.









6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Bruce Bonestroo  
 River Valley Dairy, LLC  
 1400 La Chuga Rd., Mesquite  
 P.O. Box 1929  
 Anthony, NM, 88021

Report Date: November 23, 2015

Work Order: 15111334



Project Location: 1400 La Chuga Rd., Mesquite, NM  
 Project Name: River Valley Dairy, LLC

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408373	167-05	water	2015-11-13	10:08	2015-11-13
408374	167-06	water	2015-11-13	10:48	2015-11-13
408375	167-07	water	2015-11-13	08:27	2015-11-13
408376	167-09	water	2015-11-13	09:26	2015-11-13

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2015-11-13 and assigned to work order 15111334. Samples for work order 15111334 were received intact at a temperature of 2.9 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106939	2015-11-13 at 17:20	126373	2015-11-13 at 17:20
NO3 (IC)	E 300.0	106939	2015-11-13 at 17:20	126373	2015-11-13 at 17:20
TDS	SM 2540C	107019	2015-11-18 at 13:40	126460	2015-11-19 at 07:46
TKN	SM 4500-NH3 B,C	107063	2015-11-20 at 11:40	126516	2015-11-20 at 15:30

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111334 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 408373 - 167-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>763</b>	<b>763</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408373 - 167-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>4.28</b>	<b>4.28</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408373 - 167-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126460 Date Analyzed: 2015-11-19 Analyzed By: MC  
 Prep Batch: 107019 Sample Preparation: 2015-11-18 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>3140</b>	<b>3140</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408373 - 167-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF



Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>4.48</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408374 - 167-06**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126373                              Date Analyzed: 2015-11-13                      Analyzed By: JR  
 Prep Batch: 106939                              Sample Preparation: 2015-11-13                      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>650</b>	<b>650</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408374 - 167-06**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126373                              Date Analyzed: 2015-11-13                      Analyzed By: JR  
 Prep Batch: 106939                              Sample Preparation: 2015-11-13                      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>19.5</b>	<b>19.5</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408374 - 167-06**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 126460                              Date Analyzed: 2015-11-19                      Analyzed By: MC  
 Prep Batch: 107019                              Sample Preparation: 2015-11-18                      Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2550</b>	<b>2550</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408374 - 167-06**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408375 - 167-07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>124</b>	<b>124</b>	<0.0465	mg/L	5	0.0465	2.5	0.0093

**Sample: 408375 - 167-07**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1,4,5	<0.0387	<0.500	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 408375 - 167-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126460 Date Analyzed: 2015-11-19 Analyzed By: MC  
 Prep Batch: 107019 Sample Preparation: 2015-11-18 Prepared By: MC

*continued . . .*

*sample 408375 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1350</b>	<b>1350</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408375 - 167-07**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 126516

Prep Batch: 107063

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2015-11-20

Sample Preparation:

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408376 - 167-09**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 126373

Prep Batch: 106939

Analytical Method: E 300.0

Date Analyzed: 2015-11-13

Sample Preparation: 2015-11-13

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>627</b>	<b>627</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408376 - 167-09**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 126373

Prep Batch: 106939

Analytical Method: E 300.0

Date Analyzed: 2015-11-13

Sample Preparation: 2015-11-13

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	Je,U	1,4,5	<0.194	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408376 - 167-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126460 Date Analyzed: 2015-11-19 Analyzed By: MC  
 Prep Batch: 107019 Sample Preparation: 2015-11-18 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2400</b>	<b>2400</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408376 - 167-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126460  
Prep Batch: 107019Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126516  
Prep Batch: 107063Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20Analyzed By: CF  
Prepared By: CF



Report Date: November 23, 2015

Work Order: 15111334  
River Valley Dairy, LLC

Page Number: 11 of 21  
1400 La Chuga Rd., Mesquite, NM

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 408376

QC Batch: 126460  
 Prep Batch: 107019

Date Analyzed: 2015-11-19  
 QC Preparation: 2015-11-18

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2300	2400	mg/L	50	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.7	mg/L	1	25.0	<0.00930	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	25.1	mg/L	1	25.0	<0.00930	100	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.91	mg/L	1	5.00	<0.0387	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.97	mg/L	1	5.00	<0.0387	99	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126460  
Prep Batch: 107019Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	996	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	1000	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126516  
Prep Batch: 107063

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 408374QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	2080	mg/L	55.6	1390	650	103	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1,4,5	2080	mg/L	55.6	1390	650	103	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408374QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	297	mg/L	55.6	278	19.5	100	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	297	mg/L	55.6	278	19.5	100	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408433QC Batch: 126516  
Prep Batch: 107063Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	38.1	mg/L	1	40.0	1.68	91	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	37.0	mg/L	1	40.0	1.68	88	77.9 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-2)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2015-11-13

### Standard (CCV-2)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.05	101	90 - 110	2015-11-13

### Standard (CCV-3)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.2	101	90 - 110	2015-11-13

### Standard (CCV-3)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.09	102	90 - 110	2015-11-13

**Standard (CCV-4)**

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.7	103	90 - 110	2015-11-13

**Standard (CCV-4)**

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.11	102	90 - 110	2015-11-13

**Standard (ICV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.76	95	85 - 115	2015-11-20

**Standard (CCV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	5.04	101	85 - 115	2015-11-20

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL



## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





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E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Bruce Bonestroo  
River Valley Dairy, LLC  
1400 La Chuga Rd., Mesquite  
P.O. Box 1929  
Anthony, NM, 88021

Report Date: November 23, 2015

Work Order: 15111334



Project Location: 1400 La Chuga Rd., Mesquite, NM  
Project Name: River Valley Dairy, LLC

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408373	167-05	water	2015-11-13	10:08	2015-11-13
408374	167-06	water	2015-11-13	10:48	2015-11-13
408375	167-07	water	2015-11-13	08:27	2015-11-13
408376	167-09	water	2015-11-13	09:26	2015-11-13

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2015-11-13 and assigned to work order 15111334. Samples for work order 15111334 were received intact at a temperature of 2.9 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106939	2015-11-13 at 17:20	126373	2015-11-13 at 17:20
NO3 (IC)	E 300.0	106939	2015-11-13 at 17:20	126373	2015-11-13 at 17:20
TDS	SM 2540C	107019	2015-11-18 at 13:40	126460	2015-11-19 at 07:46
TKN	SM 4500-NH3 B,C	107063	2015-11-20 at 11:40	126516	2015-11-20 at 15:30

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111334 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 408373 - 167-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>763</b>	<b>763</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408373 - 167-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>4.28</b>	<b>4.28</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408373 - 167-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126460 Date Analyzed: 2015-11-19 Analyzed By: MC  
 Prep Batch: 107019 Sample Preparation: 2015-11-18 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>3140</b>	<b>3140</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408373 - 167-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>4.48</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408374 - 167-06**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126373                              Date Analyzed: 2015-11-13                      Analyzed By: JR  
 Prep Batch: 106939                              Sample Preparation: 2015-11-13                      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>650</b>	<b>650</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408374 - 167-06**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126373                              Date Analyzed: 2015-11-13                      Analyzed By: JR  
 Prep Batch: 106939                              Sample Preparation: 2015-11-13                      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>19.5</b>	<b>19.5</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408374 - 167-06**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 126460                              Date Analyzed: 2015-11-19                      Analyzed By: MC  
 Prep Batch: 107019                              Sample Preparation: 2015-11-18                      Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2550</b>	<b>2550</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408374 - 167-06**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408375 - 167-07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>124</b>	<b>124</b>	<0.0465	mg/L	5	0.0465	2.5	0.0093

**Sample: 408375 - 167-07**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1,4,5	<0.0387	<0.500	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 408375 - 167-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126460 Date Analyzed: 2015-11-19 Analyzed By: MC  
 Prep Batch: 107019 Sample Preparation: 2015-11-18 Prepared By: MC

*continued . . .*

*sample 408375 continued ...*

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1350</b>	<b>1350</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408375 - 167-07**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 126516

Prep Batch: 107063

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2015-11-20

Sample Preparation:

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408376 - 167-09**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 126373

Prep Batch: 106939

Analytical Method: E 300.0

Date Analyzed: 2015-11-13

Sample Preparation: 2015-11-13

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>627</b>	<b>627</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408376 - 167-09**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 126373

Prep Batch: 106939

Analytical Method: E 300.0

Date Analyzed: 2015-11-13

Sample Preparation: 2015-11-13

Prep Method: N/A

Analyzed By: JR

Prepared By: JR



Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	Je,U	1,4,5	<0.194	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408376 - 167-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126460 Date Analyzed: 2015-11-19 Analyzed By: MC  
 Prep Batch: 107019 Sample Preparation: 2015-11-18 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2400</b>	<b>2400</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408376 - 167-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126460  
Prep Batch: 107019Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126516  
Prep Batch: 107063Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20Analyzed By: CF  
Prepared By: CF

Report Date: November 23, 2015

Work Order: 15111334  
River Valley Dairy, LLC

Page Number: 11 of 21  
1400 La Chuga Rd., Mesquite, NM

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 408376

QC Batch: 126460  
 Prep Batch: 107019

Date Analyzed: 2015-11-19  
 QC Preparation: 2015-11-18

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2300	2400	mg/L	50	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.7	mg/L	1	25.0	<0.00930	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	25.1	mg/L	1	25.0	<0.00930	100	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.91	mg/L	1	5.00	<0.0387	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.97	mg/L	1	5.00	<0.0387	99	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126460  
Prep Batch: 107019Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	996	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	1000	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126516  
Prep Batch: 107063

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 408374QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	2080	mg/L	55.6	1390	650	103	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	2080	mg/L	55.6	1390	650	103	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408374QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	297	mg/L	55.6	278	19.5	100	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	297	mg/L	55.6	278	19.5	100	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408433QC Batch: 126516  
Prep Batch: 107063Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	38.1	mg/L	1	40.0	1.68	91	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	37.0	mg/L	1	40.0	1.68	88	77.9 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-2)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2015-11-13

### Standard (CCV-2)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.05	101	90 - 110	2015-11-13

### Standard (CCV-3)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.2	101	90 - 110	2015-11-13

### Standard (CCV-3)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.09	102	90 - 110	2015-11-13

**Standard (CCV-4)**

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.7	103	90 - 110	2015-11-13

**Standard (CCV-4)**

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.11	102	90 - 110	2015-11-13

**Standard (ICV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.76	95	85 - 115	2015-11-20

**Standard (CCV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	5.04	101	85 - 115	2015-11-20



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## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





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## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

John DeRuyter  
Mountain View Dairy  
13090 Stern Drive  
P.O. Box 345  
Mesquite, NM, 88048

Report Date: November 23, 2015

Work Order: 15111231



Project Location: 13090 Stern Dr., Mesquite, NM  
Project Name: Mountain View Dairy  
Project Number: 481242

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408167	70-01	water	2015-11-12	12:12	2015-11-12
408168	70-02	water	2015-11-12	13:27	2015-11-12
408169	70-03	water	2015-11-12	11:40	2015-11-12
408170	70-04	water	2015-11-12	12:42	2015-11-12
408171	70 Lagoon	water	2015-11-12	13:06	2015-11-12

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 29 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*



*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2015-11-12 and assigned to work order 15111231. Samples for work order 15111231 were received intact at a temperature of 2.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106894	2015-11-12 at 20:01	126327	2015-11-12 at 20:01
NO3 (IC)	E 300.0	106894	2015-11-12 at 20:01	126327	2015-11-12 at 20:01
P, Total	S 6010C	106967	2015-11-17 at 13:56	126564	2015-11-23 at 14:24
SO4 (IC)	E 300.0	106894	2015-11-12 at 20:01	126327	2015-11-12 at 20:01
Sulfide	SM 4500-S2 D	106957	2015-11-17 at 10:40	126391	2015-11-17 at 11:05
TDS	SM 2540C	106991	2015-11-17 at 12:50	126428	2015-11-18 at 08:20
TKN	SM 4500-NH3 B,C	106941	2015-11-16 at 10:20	126377	2015-11-16 at 14:30
TKN	SM 4500-NH3 B,C	106943	2015-11-16 at 10:20	126379	2015-11-16 at 14:30

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111231 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 408167 - 70-01

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	<b>630</b>	<b>630</b>	<0.465	mg/L	50	0.465	2.5	0.0093

## Sample: 408167 - 70-01

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	<b>26.0</b>	<b>26.0</b>	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 408167 - 70-01

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,6	<b>462</b>	<b>462</b>	<0.389	mg/L	10	0.389	2.5	0.0389

## Sample: 408167 - 70-01

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126428 Date Analyzed: 2015-11-18 Analyzed By: MC  
 Prep Batch: 106991 Sample Preparation: 2015-11-17 Prepared By: MC



Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	<b>2560</b>	<b>2560</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408167 - 70-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126377 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106941 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,8	<b>5.04</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408168 - 70-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>811</b>	<b>811</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408168 - 70-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>36.1</b>	<b>36.1</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408168 - 70-02**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1,4,6	<b>458</b>	<b>458</b>	<0.389	mg/L	10	0.389	2.5	0.0389

**Sample: 408168 - 70-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126428 Date Analyzed: 2015-11-18 Analyzed By: MC  
 Prep Batch: 106991 Sample Preparation: 2015-11-17 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	<b>3210</b>	<b>3210</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408168 - 70-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126377 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106941 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,8	<b>8.40</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408169 - 70-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

*continued ...*

sample 408169 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	<b>2850</b>	<b>2850</b>	<0.930	mg/L	100	0.930	2.5	0.0093

**Sample: 408169 - 70-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	<b>46.9</b>	<b>46.9</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408169 - 70-03**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,6	<b>1360</b>	<b>1360</b>	<3.89	mg/L	100	3.89	2.5	0.0389

**Sample: 408169 - 70-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126428 Date Analyzed: 2015-11-18 Analyzed By: MC  
 Prep Batch: 106991 Sample Preparation: 2015-11-17 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>7040</b>	<b>7040</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408169 - 70-03**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126379 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106943 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,8	<b>4.48</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408170 - 70-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>604</b>	<b>604</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408170 - 70-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>28.9</b>	<b>28.9</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408170 - 70-04**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,6	<b>589</b>	<b>589</b>	<1.94	mg/L	50	1.94	2.5	0.0389

**Sample: 408170 - 70-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126428 Date Analyzed: 2015-11-18 Analyzed By: MC  
 Prep Batch: 106991 Sample Preparation: 2015-11-17 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>2700</b>	<b>2700</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408170 - 70-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126379 Date Analyzed: 2015-11-16 Analyzed By: CF  
 Prep Batch: 106943 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,8	<b>5.60</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408171 - 70 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
 Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	<b>1310</b>	<b>1310</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408171 - 70 Lagoon**



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Laboratory: El Paso  
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1,4,6	<b>1.95</b>	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408171 - 70 Lagoon**

Laboratory: Lubbock  
Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A  
QC Batch: 126564 Date Analyzed: 2015-11-23 Analyzed By: RR  
Prep Batch: 106967 Sample Preparation: 2015-11-18 Prepared By: RR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Phosphorous	U	3,5,7,8	<0.00389	<0.500	<0.00389	mg/L	1	0.00389	0.5	0.00389

**Sample: 408171 - 70 Lagoon**

Laboratory: El Paso  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126327 Date Analyzed: 2015-11-12 Analyzed By: JR  
Prep Batch: 106894 Sample Preparation: 2015-11-12 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,6	<b>54.3</b>	<b>54.3</b>	<0.194	mg/L	5	0.194	2.5	0.0389

**Sample: 408171 - 70 Lagoon**

Laboratory: Lubbock  
Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A  
QC Batch: 126391 Date Analyzed: 2015-11-17 Analyzed By: CF  
Prep Batch: 106957 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfide		2	<b>4.72</b>	<b>4.72</b>	<0.255	mg/L	25	0.255	0.1	0.0102

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**Sample: 408171 - 70 Lagoon**

Laboratory: El Paso  
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
QC Batch: 126428 Date Analyzed: 2015-11-18 Analyzed By: MC  
Prep Batch: 106991 Sample Preparation: 2015-11-17 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	<b>7350</b>	<b>7350</b>	<1250	mg/L	500	1250	2.5	2.5

**Sample: 408171 - 70 Lagoon**

Laboratory: Lubbock  
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
QC Batch: 126379 Date Analyzed: 2015-11-16 Analyzed By: CF  
Prep Batch: 106943 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	<b>373</b>	<b>373</b>	<2.36	mg/L	2	2.36	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1,4,6	<0.0389	mg/L	0.0389

### Method Blank (1)

QC Batch: 126377  
Prep Batch: 106941

Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.18	mg/L	1.18

**Method Blank (1)**

QC Batch: 126379                      Date Analyzed: 2015-11-16                      Analyzed By: CF  
Prep Batch: 106943                      QC Preparation: 2015-11-16                      Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.18	mg/L	1.18

**Method Blank (1)**

QC Batch: 126391                      Date Analyzed: 2015-11-17                      Analyzed By: CF  
Prep Batch: 106957                      QC Preparation: 2015-11-17                      Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Sulfide		2	<0.0102	mg/L	0.0102

**Method Blank (1)**

QC Batch: 126428                      Date Analyzed: 2015-11-18                      Analyzed By: MC  
Prep Batch: 106991                      QC Preparation: 2015-11-17                      Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<25.0	mg/L	2.5

**Method Blank (1)**

QC Batch: 126564                      Date Analyzed: 2015-11-23                      Analyzed By: RR  
Prep Batch: 106967                      QC Preparation: 2015-11-17                      Prepared By: PM

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Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		3,5,7,8	<0.00389	mg/L	0.00389

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# Duplicates

Duplicate (1) Duplicated Sample: 408032

QC Batch: 126428  
Prep Batch: 106991

Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-17

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2580	2760	mg/L	50	7	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	24.5	mg/L	1	25.0	<0.00930	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	24.5	mg/L	1	25.0	<0.00930	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.86	mg/L	1	5.00	<0.0387	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.86	mg/L	1	5.00	<0.0387	97	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126327  
Prep Batch: 106894

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,6	24.6	mg/L	1	25.0	<0.0389	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfate		1,4,6	24.6	mg/L	1	25.0	<0.0389	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126377  
Prep Batch: 106941

Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,7,8	40.3	mg/L	1	40.0	<1.18	101	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2,3,7,8	38.6	mg/L	1	40.0	<1.18	96	82.8 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126379  
Prep Batch: 106943

Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,7,8	40.9	mg/L	1	40.0	<1.18	102	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2,3,7,8	38.1	mg/L	1	40.0	<1.18	95	82.8 - 115	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126391  
Prep Batch: 106957

Date Analyzed: 2015-11-17  
QC Preparation: 2015-11-17

Analyzed By: CF  
Prepared By: CF

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfide		2	0.394	mg/L	1	0.400	<0.0102	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Sulfide		2	0.393	mg/L	1	0.400	<0.0102	98	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Laboratory Control Spike (LCS-1)

QC Batch: 126428  
Prep Batch: 106991

Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-17

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	998	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Dissolved Solids		1,4,6	997	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

### Laboratory Control Spike (LCS-1)

QC Batch: 126564  
Prep Batch: 106967

Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-17

Analyzed By: RR  
Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,8	0.466	mg/L	1	0.500	<0.00389	93	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Phosphorous		3,5,7,8	0.473	mg/L	1	0.500	<0.00389	95	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

## Matrix Spike (MS-1) Spiked Sample: 408168

QC Batch: 126377 Date Analyzed: 2015-11-16 Analyzed By: CF  
Prep Batch: 106941 QC Preparation: 2015-11-16 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.2	mg/L	1	40.0	8.4	90	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	42.6	mg/L	1	40.0	8.4	86	77.9 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (MS-1) Spiked Sample: 408177

QC Batch: 126379 Date Analyzed: 2015-11-16 Analyzed By: CF  
Prep Batch: 106943 QC Preparation: 2015-11-16 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.1	mg/L	1	40.0	2.24	102	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.8	mg/L	1	40.0	2.24	106	77.9 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (MS-1) Spiked Sample: 408179

QC Batch: 126391 Date Analyzed: 2015-11-17 Analyzed By: CF  
Prep Batch: 106957 QC Preparation: 2015-11-17 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfide		2	9.29	mg/L	25	10.0	2.89	64	10 - 159

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	MSD		Dil.	Spike	Matrix	Rec.		RPD	
			Result	Units		Amount	Result	Rec.	Limit	RPD	Limit
Sulfide		2	9.49	mg/L	25	10.0	2.89	66	10 - 159	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408365

QC Batch: 126564  
Prep Batch: 106967

Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-17

Analyzed By: RR  
Prepared By: PM

Param	F	C	MS		Dil.	Spike	Matrix	Rec.		RPD	
			Result	Units		Amount	Result	Rec.	Limit	RPD	Limit
Total Phosphorous		3,5,7,8	0.440	mg/L	1	0.500	<0.00389	88	75 - 125		

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike	Matrix	Rec.		RPD	
			Result	Units		Amount	Result	Rec.	Limit	RPD	Limit
Total Phosphorous		3,5,7,8	0.419	mg/L	1	0.500	<0.00389	84	75 - 125	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Calibration Standards

## Standard (CCV-1)

QC Batch: 126327

Date Analyzed: 2015-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.7	99	90 - 110	2015-11-12

## Standard (CCV-1)

QC Batch: 126327

Date Analyzed: 2015-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.93	99	90 - 110	2015-11-12

## Standard (CCV-1)

QC Batch: 126327

Date Analyzed: 2015-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	24.8	99	90 - 110	2015-11-12

## Standard (CCV-2)

QC Batch: 126327

Date Analyzed: 2015-11-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.2	101	90 - 110	2015-11-12



Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.6	102	90 - 110	2015-11-12

**Standard (ICV-1)**

QC Batch: 126377

Date Analyzed: 2015-11-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.90	98	85 - 115	2015-11-16

**Standard (CCV-1)**

QC Batch: 126377

Date Analyzed: 2015-11-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	5.04	101	85 - 115	2015-11-16

**Standard (ICV-1)**

QC Batch: 126379

Date Analyzed: 2015-11-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.90	98	85 - 115	2015-11-16

**Standard (CCV-1)**

QC Batch: 126379

Date Analyzed: 2015-11-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	5.18	104	85 - 115	2015-11-16





## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.104	Pass
Sulfide	SM 4500-S2 D	water	Spectrophotometer	Sulfide	0.0200	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

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# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-15-6	El Paso
7	NELAP	T104704219-15-11	Lubbock
8		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

---

F Description

---

U The analyte is not detected above the SDL

---

## Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





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 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Tim Hyde  
 Bright Star Dairy  
 13520 Stern Dr.  
 P.O. Box 167  
 Mesquite, NM, 88048

Report Date: November 23, 2015

Work Order: 15111236



DP: 340  
 Project Location: 13250 Stern Dr, Mesquite, NM  
 Project Name: Bright Star Dairy

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408179	Lagoon	water	2015-11-12	10:48	2015-11-12

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 22 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*



*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2015-11-12 and assigned to work order 15111236. Samples for work order 15111236 were received intact at a temperature of 2.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106939	2015-11-13 at 17:20	126373	2015-11-13 at 17:20
NO3 (IC)	E 300.0	106939	2015-11-13 at 17:20	126373	2015-11-13 at 17:20
P, Total	S 6010C	106967	2015-11-17 at 13:56	126564	2015-11-23 at 14:24
SO4 (IC)	E 300.0	106939	2015-11-13 at 17:20	126373	2015-11-13 at 17:20
Sulfide	SM 4500-S2 D	106957	2015-11-17 at 10:40	126391	2015-11-17 at 11:05
TDS	SM 2540C	107019	2015-11-18 at 13:40	126460	2015-11-19 at 07:46
TKN	SM 4500-NH3 B,C	107063	2015-11-20 at 11:40	126516	2015-11-20 at 15:30

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111236 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 408179 - Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>1320</b>	<b>1320</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408179 - Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,6	<b>2.49</b>	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408179 - Lagoon**

Laboratory: Lubbock  
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A  
 QC Batch: 126564 Date Analyzed: 2015-11-23 Analyzed By: RR  
 Prep Batch: 106967 Sample Preparation: 2015-11-18 Prepared By: RR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Phosphorous		3,5,7,9	<b>16.5</b>	<b>16.5</b>	<0.00389	mg/L	1	0.00389	0.5	0.00389

**Sample: 408179 - Lagoon**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate	J	1,4,6	<b>3.36</b>	<12.5	<0.194	mg/L	5	0.194	2.5	0.0389

**Sample: 408179 - Lagoon**

Laboratory: Lubbock  
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A  
 QC Batch: 126391 Date Analyzed: 2015-11-17 Analyzed By: CF  
 Prep Batch: 106957 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfide		2	<b>2.89</b>	<b>2.89</b>	<0.255	mg/L	25	0.255	0.1	0.0102

**Sample: 408179 - Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126460 Date Analyzed: 2015-11-19 Analyzed By: MC  
 Prep Batch: 107019 Sample Preparation: 2015-11-18 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>6740</b>	<b>6740</b>	<500	mg/L	200	500	2.5	2.5

**Sample: 408179 - Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,9	<b>380</b>	<b>380</b>	<2.36	mg/L	2	2.36	10	1.18



## Method Blanks

### Method Blank (1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1,4,6	<0.0389	mg/L	0.0389

### Method Blank (1)

QC Batch: 126391  
Prep Batch: 106957Date Analyzed: 2015-11-17  
QC Preparation: 2015-11-17Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Sulfide		2	<0.0102	mg/L	0.0102

**Method Blank (1)**QC Batch: 126460  
Prep Batch: 107019Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<25.0	mg/L	2.5

**Method Blank (1)**QC Batch: 126516  
Prep Batch: 107063Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,9	<1.18	mg/L	1.18

**Method Blank (1)**QC Batch: 126564  
Prep Batch: 106967Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-17Analyzed By: RR  
Prepared By: PM

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		3,5,7,9	<0.00389	mg/L	0.00389

# Duplicates

**Duplicate (1)**    Duplicated Sample: 408376

QC Batch: 126460  
Prep Batch: 107019

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2300	2400	mg/L	50	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	24.7	mg/L	1	25.0	<0.00930	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.1	mg/L	1	25.0	<0.00930	100	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.91	mg/L	1	5.00	<0.0387	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.97	mg/L	1	5.00	<0.0387	99	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,6	24.8	mg/L	1	25.0	<0.0389	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfate		1,4,6	25.2	mg/L	1	25.0	<0.0389	101	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126391  
Prep Batch: 106957

Date Analyzed: 2015-11-17  
QC Preparation: 2015-11-17

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfide		2	0.394	mg/L	1	0.400	<0.0102	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfide		2	0.393	mg/L	1	0.400	<0.0102	98	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126460  
Prep Batch: 107019

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1,4,6	996	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1,4,6	1000	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126516  
Prep Batch: 107063

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126564  
Prep Batch: 106967

Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-17

Analyzed By: RR  
Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,9	0.466	mg/L	1	0.500	<0.00389	93	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		3,5,7,9	0.473	mg/L	1	0.500	<0.00389	95	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



# Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 408374

QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
Prep Batch: 106939 QC Preparation: 2015-11-13 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	2080	mg/L	55.6	1390	650	103	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	2080	mg/L	55.6	1390	650	103	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408374

QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
Prep Batch: 106939 QC Preparation: 2015-11-13 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	297	mg/L	55.6	278	19.5	100	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	297	mg/L	55.6	278	19.5	100	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408374

QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
Prep Batch: 106939 QC Preparation: 2015-11-13 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,6	1810	mg/L	55.6	1390	402	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		1,4,6	1800	mg/L	55.6	1390	402	100	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408179

QC Batch: 126391  
Prep Batch: 106957

Date Analyzed: 2015-11-17  
QC Preparation: 2015-11-17

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Sulfide		2	9.29	mg/L	25	10.0	2.89	64	10 - 159

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Sulfide		2	9.49	mg/L	25	10.0	2.89	66	10 - 159	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408433

QC Batch: 126516  
Prep Batch: 107063

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	38.1	mg/L	1	40.0	1.68	91	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	37.0	mg/L	1	40.0	1.68	88	77.9 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408365

QC Batch: 126564  
Prep Batch: 106967

Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-17

Analyzed By: RR  
Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,9	0.440	mg/L	1	0.500	<0.00389	88	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		3,5,7,9	0.419	mg/L	1	0.500	<0.00389	84	75 - 125	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-1)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.0	100	90 - 110	2015-11-13

### Standard (CCV-1)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.97	99	90 - 110	2015-11-13

### Standard (CCV-1)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.1	100	90 - 110	2015-11-13

### Standard (CCV-2)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.4	102	90 - 110	2015-11-13

**Standard (CCV-2)**

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.05	101	90 - 110	2015-11-13

**Standard (CCV-2)**

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.3	101	90 - 110	2015-11-13

**Standard (ICV-1)**

QC Batch: 126391

Date Analyzed: 2015-11-17

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.416	104	85 - 115	2015-11-17

**Standard (CCV-1)**

QC Batch: 126391

Date Analyzed: 2015-11-17

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.411	103	85 - 115	2015-11-17

**Standard (ICV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.76	95	85 - 115	2015-11-20

**Standard (CCV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	5.04	101	85 - 115	2015-11-20

**Standard (ICV-1)**

QC Batch: 126564

Date Analyzed: 2015-11-23

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		3,5,7,9	mg/L	5.00	5.00	100	90 - 110	2015-11-23

**Standard (CCV-1)**

QC Batch: 126564

Date Analyzed: 2015-11-23

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		3,5,7,9	mg/L	5.00	5.26	105	90 - 110	2015-11-23



---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.104	Pass
Sulfide	SM 4500-S2 D	water	Spectrophotometer	Sulfide	0.0200	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-15-6	El Paso
7	NELAP	T104704219-15-11	Lubbock
8	NELAP	T104704392-14-8	Midland
9		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.

F	Description
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
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1 (800) 378-1296

5002 Basin Street, Suite A1  
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Fax (432) 689-6313

BioAquatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

Brandon & Clark  
3403 Industrial Blvd.  
Hobbs, NM 88240  
Tel (575) 392-7561  
Fax (575) 392-4508

email: lab@traceanalysis.com

Company Name: Dart United Fueling Solutions  
Address: 1221 Tower Trail Ln, El Paso, TX  
Contact Person: Rosalie Guilan  
E-mail: rguilan@dpump.com  
Invoice to: Tim Hyde 575-333-2029 PO Box 167, 13520 Stern Dr  
Project #: 13520 Stern, Mesquite, NM, 88048

Project Location (including state): 13520 Stern, Mesquite, NM, 88048  
Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING	
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE
408179	Lagoon	1	250	X			X	X	X			11-12	1049
1-2	Lagoon	1	250	X			X	X	X				
1-3	Lagoon	1	250	X			X	X	X				
1-4	Lagoon	1	250	X			X	X	X				

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624  
BTEX 8021 / 602 / 8260 / 624  
TPH 418.1 / TX1005 / TX1005 Ext(C35)  
TPH 8015 GRO / DRO / TVHC  
PAH 8270 / 625  
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7  
TCLP Metals Ag As Ba Cd Cr Pb Se Hg  
TCLP Volatiles  
TCLP Semi Volatiles  
TCLP Pesticides  
RCI  
GC/MS Vol. 8260 / 624  
GC/MS Semi. Vol. 8270 / 625  
PCBs 8082 / 608  
Pesticides 8081 / 608  
BOD, TSS, pH  
Measure Content: Phosphorus  
Cl, F, SO<sub>4</sub>, NO<sub>3</sub>, N, NO<sub>2</sub>, N, PO<sub>4</sub>, P, Alkalinity  
~~Na, Ca, Mg, K, TDS, EC - Total Solids~~  
TKN SM YSCD NORG C  
Chloride EM 300.0  
TDS SM 2540 C MOD  
Sulfate EM 300

Turn Around Time if different from standard

LAB USE ONLY	REMARKS:
INST 12.7 OBS 2.8 COR 2.8	Added H <sub>2</sub> O to sample on 11-12-15 @ 15:20 AM
INST 12.3 OBS 5.5 COR 5.7	
INST 16.3 OBS 5.5 COR 5.7	

Carrier # 49367139

Submitted of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.



6701 Aberdeen Avenue, Suite 9      Lubbock, Texas 79424      800-378-1296      806-794-1296      FAX 806-794-1298  
 200 East Sunset Road, Suite E      El Paso, Texas 79922           915-585-3443      FAX 915-585-4944  
 5002 Basin Street, Suite A1      Midland, Texas 79703           432-689-6301      FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100      Carrollton, Texas 75006           972-242-7750  
 E-Mail: lab@traceanalysis.com      WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Tim Hyde  
 Bright Star Dairy  
 13520 Stern Dr.  
 P.O. Box 167  
 Mesquite, NM, 88048

Report Date: November 23, 2015

Work Order: 15111236



DP: 340  
 Project Location: 13250 Stern Dr, Mesquite, NM  
 Project Name: Bright Star Dairy

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408179	Lagoon	water	2015-11-12	10:48	2015-11-12

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 22 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager



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## Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2015-11-12 and assigned to work order 15111236. Samples for work order 15111236 were received intact at a temperature of 2.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106939	2015-11-13 at 17:20	126373	2015-11-13 at 17:20
NO3 (IC)	E 300.0	106939	2015-11-13 at 17:20	126373	2015-11-13 at 17:20
P, Total	S 6010C	106967	2015-11-17 at 13:56	126564	2015-11-23 at 14:24
SO4 (IC)	E 300.0	106939	2015-11-13 at 17:20	126373	2015-11-13 at 17:20
Sulfide	SM 4500-S2 D	106957	2015-11-17 at 10:40	126391	2015-11-17 at 11:05
TDS	SM 2540C	107019	2015-11-18 at 13:40	126460	2015-11-19 at 07:46
TKN	SM 4500-NH3 B,C	107063	2015-11-20 at 11:40	126516	2015-11-20 at 15:30

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111236 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 408179 - Lagoon

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>1320</b>	<b>1320</b>	<0.465	mg/L	50	0.465	2.5	0.0093

## Sample: 408179 - Lagoon

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,6	<b>2.49</b>	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 408179 - Lagoon

Laboratory: Lubbock  
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A  
 QC Batch: 126564 Date Analyzed: 2015-11-23 Analyzed By: RR  
 Prep Batch: 106967 Sample Preparation: 2015-11-18 Prepared By: RR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Phosphorous		3,5,7,9	<b>16.5</b>	<b>16.5</b>	<0.00389	mg/L	1	0.00389	0.5	0.00389

## Sample: 408179 - Lagoon

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
 Prep Batch: 106939 Sample Preparation: 2015-11-13 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate	J	1,4,6	<b>3.36</b>	<12.5	<0.194	mg/L	5	0.194	2.5	0.0389

**Sample: 408179 - Lagoon**

Laboratory: Lubbock  
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A  
 QC Batch: 126391 Date Analyzed: 2015-11-17 Analyzed By: CF  
 Prep Batch: 106957 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfide		2	<b>2.89</b>	<b>2.89</b>	<0.255	mg/L	25	0.255	0.1	0.0102

**Sample: 408179 - Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126460 Date Analyzed: 2015-11-19 Analyzed By: MC  
 Prep Batch: 107019 Sample Preparation: 2015-11-18 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>6740</b>	<b>6740</b>	<500	mg/L	200	500	2.5	2.5

**Sample: 408179 - Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,9	<b>380</b>	<b>380</b>	<2.36	mg/L	2	2.36	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1,4,6	<0.0389	mg/L	0.0389

### Method Blank (1)

QC Batch: 126391  
Prep Batch: 106957Date Analyzed: 2015-11-17  
QC Preparation: 2015-11-17Analyzed By: CF  
Prepared By: CF



---

Parameter	F	C	Result	Units	Reporting Limits
Sulfide		2	<0.0102	mg/L	0.0102

---

**Method Blank (1)**QC Batch: 126460  
Prep Batch: 107019Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18Analyzed By: MC  
Prepared By: MC

---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<25.0	mg/L	2.5

---

**Method Blank (1)**QC Batch: 126516  
Prep Batch: 107063Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,9	<1.18	mg/L	1.18

---

**Method Blank (1)**QC Batch: 126564  
Prep Batch: 106967Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-17Analyzed By: RR  
Prepared By: PM

---

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		3,5,7,9	<0.00389	mg/L	0.00389

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 408376

QC Batch: 126460  
Prep Batch: 107019

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2300	2400	mg/L	50	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	24.7	mg/L	1	25.0	<0.00930	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.1	mg/L	1	25.0	<0.00930	100	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.91	mg/L	1	5.00	<0.0387	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.97	mg/L	1	5.00	<0.0387	99	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126373  
Prep Batch: 106939Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,6	24.8	mg/L	1	25.0	<0.0389	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfate		1,4,6	25.2	mg/L	1	25.0	<0.0389	101	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126391  
Prep Batch: 106957

Date Analyzed: 2015-11-17  
QC Preparation: 2015-11-17

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfide		2	0.394	mg/L	1	0.400	<0.0102	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfide		2	0.393	mg/L	1	0.400	<0.0102	98	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126460  
Prep Batch: 107019

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-18

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1,4,6	996	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1,4,6	1000	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126516  
Prep Batch: 107063

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126564  
Prep Batch: 106967

Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-17

Analyzed By: RR  
Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,9	0.466	mg/L	1	0.500	<0.00389	93	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		3,5,7,9	0.473	mg/L	1	0.500	<0.00389	95	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 408374

QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
Prep Batch: 106939 QC Preparation: 2015-11-13 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	2080	mg/L	55.6	1390	650	103	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	2080	mg/L	55.6	1390	650	103	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408374

QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
Prep Batch: 106939 QC Preparation: 2015-11-13 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	297	mg/L	55.6	278	19.5	100	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	297	mg/L	55.6	278	19.5	100	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408374

QC Batch: 126373 Date Analyzed: 2015-11-13 Analyzed By: JR  
Prep Batch: 106939 QC Preparation: 2015-11-13 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,6	1810	mg/L	55.6	1390	402	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		1,4,6	1800	mg/L	55.6	1390	402	100	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408179

QC Batch: 126391  
Prep Batch: 106957

Date Analyzed: 2015-11-17  
QC Preparation: 2015-11-17

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Sulfide		2	9.29	mg/L	25	10.0	2.89	64	10 - 159

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Sulfide		2	9.49	mg/L	25	10.0	2.89	66	10 - 159	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408433

QC Batch: 126516  
Prep Batch: 107063

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	38.1	mg/L	1	40.0	1.68	91	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	37.0	mg/L	1	40.0	1.68	88	77.9 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408365

QC Batch: 126564  
Prep Batch: 106967

Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-17

Analyzed By: RR  
Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,9	0.440	mg/L	1	0.500	<0.00389	88	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		3,5,7,9	0.419	mg/L	1	0.500	<0.00389	84	75 - 125	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-1)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.0	100	90 - 110	2015-11-13

### Standard (CCV-1)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.97	99	90 - 110	2015-11-13

### Standard (CCV-1)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.1	100	90 - 110	2015-11-13

### Standard (CCV-2)

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.4	102	90 - 110	2015-11-13

**Standard (CCV-2)**

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.05	101	90 - 110	2015-11-13

**Standard (CCV-2)**

QC Batch: 126373

Date Analyzed: 2015-11-13

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.3	101	90 - 110	2015-11-13

**Standard (ICV-1)**

QC Batch: 126391

Date Analyzed: 2015-11-17

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.416	104	85 - 115	2015-11-17

**Standard (CCV-1)**

QC Batch: 126391

Date Analyzed: 2015-11-17

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.411	103	85 - 115	2015-11-17

**Standard (ICV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.76	95	85 - 115	2015-11-20

**Standard (CCV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	5.04	101	85 - 115	2015-11-20

**Standard (ICV-1)**

QC Batch: 126564

Date Analyzed: 2015-11-23

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		3,5,7,9	mg/L	5.00	5.00	100	90 - 110	2015-11-23

**Standard (CCV-1)**

QC Batch: 126564

Date Analyzed: 2015-11-23

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		3,5,7,9	mg/L	5.00	5.26	105	90 - 110	2015-11-23

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.104	Pass
Sulfide	SM 4500-S2 D	water	Spectrophotometer	Sulfide	0.0200	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

---



# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-15-6	El Paso
7	NELAP	T104704219-15-11	Lubbock
8	NELAP	T104704392-14-8	Midland
9		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.

F	Description
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
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BioAquatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

Brandon & Clark  
3403 Industrial Blvd.  
Hobbs, NM 88240  
Tel (575) 392-7561  
Fax (575) 392-4508

email: lab@traceanalysis.com

Company Name: Dart United Fueling Solutions  
Address: 1221 Tower Trail Ln, El Paso, TX  
Contact Person: Rosalie Guilen  
E-mail: rguilen@dpump.com  
Invoice to: Tim Hyde 575-333-2029 PO Box 167, 13520 Stern Dr  
Project #: 13520 Stern, Mesquite, NM, 88048

Project Location (including state): 13520 Stern, Mesquite, NM, 88048  
Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		TIME	Turn Around Time if different from standard	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE			NONE
40879	Lagoon	1	250	X				X			X		11-12	1049	
1-2	Lagoon	1	250	X				X			X				
1-3	Lagoon	1	250	X				X			X				
1-4	Lagoon	1	250	X				X			X				

**ANALYSIS REQUEST**  
**(Circle or Specify Method No.)**

MTBE 8021 / 602 / 8260 / 624  
BTEX 8021 / 602 / 8260 / 624  
TPH 418.1 / TX1005 / TX1005 Ext(C35)  
TPH 8015 GRO / DRO / TVHC  
PAH 8270 / 625  
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7  
TCLP Metals Ag As Ba Cd Cr Pb Se Hg  
TCLP Volatiles  
TCLP Semi Volatiles  
TCLP Pesticides  
RCI  
GC/MS Vol. 8260 / 624  
GC/MS Semi. Vol. 8270 / 625  
PCBs 8082 / 608  
Pesticides 8081 / 608  
BOD, TSS, pH  
Measure Content: Phosphorus  
Cl, F, SO<sub>4</sub>, NO<sub>3</sub>, N, NO<sub>2</sub>, N, PO<sub>4</sub>, P, Alkalinity  
~~Na, Ca, Mg, K, TDS, EC - Total Solids~~  
TKN SM YSCD NORG C  
Chloride EM 300.0  
TDS SM 2540 C MOD  
Sulfate EM 300

LAB USE ONLY	REMARKS:
INST 12.7 OBS 2.8 COR 2.8	Added H <sub>2</sub> O to sample on 11-12-15 @ 15:20 AM
INST 12.7 OBS 2.8 COR 2.8	
INST 12.7 OBS 2.8 COR 2.8	

Carrier # 49367139  
Creech in LS

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Bruce Bonestroo  
River Valley Dairy, LLC  
1400 La Chuga Rd., Mesquite  
P.O. Box 1929  
Anthony, NM, 88021

Report Date: November 24, 2015

Work Order: 15111611



DP: 481243  
Project Location: 1400 La Chuga Rd., Mesquite, NM  
Project Name: River Valley Dairy, LLC

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408430	Lagoon	Water	2015-11-16	11:14	2015-11-16
408431	167-01 A	Water	2015-11-16	10:50	2015-11-16
408432	167-03	Water	2015-11-16	09:14	2015-11-16
408433	167-04	Water	2015-11-16	09:48	2015-11-16

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2015-11-16 and assigned to work order 15111611. Samples for work order 15111611 were received intact at a temperature of 2.7 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106956	2015-11-16 at 20:14	126390	2015-11-16 at 20:14
NO3 (IC)	E 300.0	106956	2015-11-16 at 20:14	126390	2015-11-16 at 20:14
TDS	SM 2540C	107062	2015-11-19 at 15:20	126515	2015-11-20 at 08:10
TKN	SM 4500-NH3 B,C	107063	2015-11-20 at 11:40	126516	2015-11-20 at 15:30

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111611 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 408430 - Lagoon

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126390 Date Analyzed: 2015-11-16 Analyzed By: JR  
 Prep Batch: 106956 Sample Preparation: 2015-11-16 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>628</b>	<b>628</b>	<0.186	mg/L	20	0.186	2.5	0.0093

## Sample: 408430 - Lagoon

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126390 Date Analyzed: 2015-11-16 Analyzed By: JR  
 Prep Batch: 106956 Sample Preparation: 2015-11-16 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,5	<b>1.46</b>	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 408430 - Lagoon

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126515 Date Analyzed: 2015-11-20 Analyzed By: MC  
 Prep Batch: 107062 Sample Preparation: 2015-11-19 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2380</b>	<b>2380</b>	<125	mg/L	50	125	2.5	2.5

## Sample: 408430 - Lagoon

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	<b>41.4</b>	<b>41.4</b>	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408431 - 167-01 A**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126390 Date Analyzed: 2015-11-16 Analyzed By: JR  
 Prep Batch: 106956 Sample Preparation: 2015-11-16 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>669</b>	<b>669</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408431 - 167-01 A**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126390 Date Analyzed: 2015-11-16 Analyzed By: JR  
 Prep Batch: 106956 Sample Preparation: 2015-11-16 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	Je,U	1,4,5	<0.194	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408431 - 167-01 A**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126515 Date Analyzed: 2015-11-20 Analyzed By: MC  
 Prep Batch: 107062 Sample Preparation: 2015-11-19 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2920</b>	<b>2920</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408431 - 167-01 A**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408432 - 167-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126390 Date Analyzed: 2015-11-16 Analyzed By: JR  
 Prep Batch: 106956 Sample Preparation: 2015-11-16 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>497</b>	<b>497</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408432 - 167-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126390 Date Analyzed: 2015-11-16 Analyzed By: JR  
 Prep Batch: 106956 Sample Preparation: 2015-11-16 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>12.7</b>	<b>12.7</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408432 - 167-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126515 Date Analyzed: 2015-11-20 Analyzed By: MC  
 Prep Batch: 107062 Sample Preparation: 2015-11-19 Prepared By: MC

*continued . . .*

sample 408432 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2000</b>	<b>2000</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408432 - 167-03**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>1.68</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408433 - 167-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126390 Date Analyzed: 2015-11-16 Analyzed By: JR  
 Prep Batch: 106956 Sample Preparation: 2015-11-16 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>952</b>	<b>952</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408433 - 167-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126390 Date Analyzed: 2015-11-16 Analyzed By: JR  
 Prep Batch: 106956 Sample Preparation: 2015-11-16 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>27.2</b>	<b>27.2</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408433 - 167-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126515 Date Analyzed: 2015-11-20 Analyzed By: MC  
 Prep Batch: 107062 Sample Preparation: 2015-11-19 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>3410</b>	<b>3410</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408433 - 167-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126516 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107063 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>1.68</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18



## Method Blanks

### Method Blank (1)

QC Batch: 126390  
Prep Batch: 106956Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126390  
Prep Batch: 106956Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126515  
Prep Batch: 107062Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-19Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126516  
Prep Batch: 107063Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20Analyzed By: CF  
Prepared By: CF

Report Date: November 24, 2015

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

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# Duplicates

**Duplicate (1)**    Duplicated Sample: 408591

QC Batch: 126515  
 Prep Batch: 107062

Date Analyzed: 2015-11-20  
 QC Preparation: 2015-11-19

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	3840	3860	mg/L	50	0	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126390  
Prep Batch: 106956Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	25.1	mg/L	1	25.0	<0.00930	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	25.2	mg/L	1	25.0	<0.00930	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126390  
Prep Batch: 106956Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.98	mg/L	1	5.00	<0.0387	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.98	mg/L	1	5.00	<0.0387	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126515  
Prep Batch: 107062Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-19Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	997	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	998	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126516  
Prep Batch: 107063

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	39.2	mg/L	1	40.0	<1.18	98	82.8 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 408431QC Batch: 126390  
Prep Batch: 106956Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	2140	mg/L	55.6	1390	669	106	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1,4,5	2140	mg/L	55.6	1390	669	106	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408431QC Batch: 126390  
Prep Batch: 106956Date Analyzed: 2015-11-16  
QC Preparation: 2015-11-16Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	281	mg/L	55.6	278	<0.523	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	282	mg/L	55.6	278	<0.523	101	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408433QC Batch: 126516  
Prep Batch: 107063Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	38.1	mg/L	1	40.0	1.68	91	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	37.0	mg/L	1	40.0	1.68	88	77.9 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-1)

QC Batch: 126390

Date Analyzed: 2015-11-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.7	99	90 - 110	2015-11-16

### Standard (CCV-1)

QC Batch: 126390

Date Analyzed: 2015-11-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.91	98	90 - 110	2015-11-16

### Standard (CCV-2)

QC Batch: 126390

Date Analyzed: 2015-11-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.1	100	90 - 110	2015-11-16

### Standard (CCV-2)

QC Batch: 126390

Date Analyzed: 2015-11-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.99	100	90 - 110	2015-11-16

**Standard (CCV-3)**

QC Batch: 126390

Date Analyzed: 2015-11-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.3	101	90 - 110	2015-11-16

**Standard (CCV-3)**

QC Batch: 126390

Date Analyzed: 2015-11-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.02	100	90 - 110	2015-11-16

**Standard (ICV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.76	95	85 - 115	2015-11-20

**Standard (CCV-1)**

QC Batch: 126516

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	5.04	101	85 - 115	2015-11-20

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## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.



Company Name: D&H United Fueling Solutions  
 Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
 Contact Person: Rosalio Guillen  
 Phone #: 915-859-8150  
 Cell #:   
 Fax #:   
 E-mail: rguillen@dhpump.com

Project Name: Bruce Bonestroo 575-233-2061  
 River Valley Dairy, LLC  
 Sampler Signature: *gmb*

Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE
48430-1	lagoon	1	250	X				X		X			11-16-15	11:14
-2	lagoon	1		X				X		X			11:14	
431-1	167-01A	1		X				X		X			10:50	
-2	167-01A	1		X				X		X			10:50	
432-1	167-03	1		X				X		X			9:14	
-2	167-03	1		X				X		X			9:14	
433-1	167-04	1		X				X		X			9:40	
-2	167-04	1		X				X		X			9:40	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
<i>gmb</i>	11-16-15	12:00	<i>WRE TABP</i>	11/16/15	12:20
<i>WRE TABP</i>	11/16/15	16:30	<i>Dranda TAB</i>	11/17/15	9:15

ANALYSIS REQUEST	Lab Use Only	Remarks:
MTBE 8021B/602	Intact <input checked="" type="checkbox"/> / N/A	Remarks: on file * Added Carl H <sub>2</sub> SO <sub>4</sub> To Sample 408433-1 @ 12:55 AM Dry Weight Basis Required TRRP Report Required
BTEX 8021B/602	Headspace <input type="checkbox"/> / <input type="checkbox"/>	
TPH 418.1 / TX1005	Temp <input type="checkbox"/> / <input type="checkbox"/>	
TX 1005 Extended (C35)	Log-in Review <input type="checkbox"/>	
PAH 8270C		
PAH 8270 (Low Level Analysis)		
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7		
Nitrates EPA 300		
TKN SM 4500 NORG C		
Chloride EPA 300		
Total Dissolved Solids SM 2540 C MOD		
Turn Around Time		
Hold		

15-16-15 85 49 36 7136



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## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

George Segura  
 Big Sky Dairy  
 17800 Stern Drive  
 P.O. Box 10  
 Mesquite, NM, 88048

Report Date: November 30, 2015

Work Order: 15111829



DP: 481240  
 Project Location: 17800 Stern Drive, Mesquite, NM 88048  
 Project Name: Big Sky Dairy

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408587	833-02	water	2015-11-18	13:51	2015-11-18
408588	833-05	water	2015-11-18	09:54	2015-11-18
408589	833-07	water	2015-11-18	09:08	2015-11-18
408590	833-08	water	2015-11-18	10:58	2015-11-18
408591	833-09	water	2015-11-18	12:44	2015-11-18
408592	833-10	water	2015-11-18	12:07	2015-11-18

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 26 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2015-11-18 and assigned to work order 15111829. Samples for work order 15111829 were received intact at a temperature of 2.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	107016	2015-11-18 at 19:50	126462	2015-11-18 at 19:50
NO3 (IC)	E 300.0	107016	2015-11-18 at 19:50	126462	2015-11-18 at 19:50
TDS	SM 2540C	107062	2015-11-19 at 15:20	126515	2015-11-20 at 08:10
TDS	SM 2540C	107131	2015-11-23 at 14:35	126600	2015-11-24 at 08:06
TKN	SM 4500-NH3 B,C	107064	2015-11-20 at 11:40	126517	2015-11-20 at 15:30
TKN	SM 4500-NH3 B,C	107172	2015-11-25 at 10:10	126648	2015-11-25 at 13:45

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111829 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

**Sample: 408587 - 833-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126462 Date Analyzed: 2015-11-18 Analyzed By: JR  
 Prep Batch: 107016 Sample Preparation: 2015-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>1300</b>	<b>1300</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408587 - 833-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126462 Date Analyzed: 2015-11-18 Analyzed By: JR  
 Prep Batch: 107016 Sample Preparation: 2015-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>74.5</b>	<b>74.5</b>	<0.387	mg/L	10	0.387	0.5	0.0387

**Sample: 408587 - 833-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126515 Date Analyzed: 2015-11-20 Analyzed By: MC  
 Prep Batch: 107062 Sample Preparation: 2015-11-19 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>4240</b>	<b>4240</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408587 - 833-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126517 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107064 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>4.48</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408588 - 833-05**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 126462      Date Analyzed: 2015-11-18      Analyzed By: JR  
 Prep Batch: 107016      Sample Preparation: 2015-11-18      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>958</b>	<b>958</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408588 - 833-05**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 126462      Date Analyzed: 2015-11-18      Analyzed By: JR  
 Prep Batch: 107016      Sample Preparation: 2015-11-18      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>20.9</b>	<b>20.9</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408588 - 833-05**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 126515      Date Analyzed: 2015-11-20      Analyzed By: MC  
 Prep Batch: 107062      Sample Preparation: 2015-11-19      Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2720</b>	<b>2720</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408588 - 833-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126517 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107064 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408589 - 833-07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126462 Date Analyzed: 2015-11-18 Analyzed By: JR  
 Prep Batch: 107016 Sample Preparation: 2015-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>1130</b>	<b>1130</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408589 - 833-07**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126462 Date Analyzed: 2015-11-18 Analyzed By: JR  
 Prep Batch: 107016 Sample Preparation: 2015-11-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>91.0</b>	<b>91.0</b>	<0.387	mg/L	10	0.387	0.5	0.0387

**Sample: 408589 - 833-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126515 Date Analyzed: 2015-11-20 Analyzed By: MC  
 Prep Batch: 107062 Sample Preparation: 2015-11-19 Prepared By: MC

*continued . . .*

*sample 408589 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>4150</b>	<b>4150</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408589 - 833-07**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 126517

Prep Batch: 107064

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2015-11-20

Sample Preparation:

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>1.68</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408590 - 833-08**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 126462

Prep Batch: 107016

Analytical Method: E 300.0

Date Analyzed: 2015-11-18

Sample Preparation: 2015-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>533</b>	<b>533</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408590 - 833-08**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 126462

Prep Batch: 107016

Analytical Method: E 300.0

Date Analyzed: 2015-11-18

Sample Preparation: 2015-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>56.9</b>	<b>56.9</b>	<0.387	mg/L	10	0.387	0.5	0.0387

**Sample: 408590 - 833-08**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126515 Date Analyzed: 2015-11-20 Analyzed By: MC  
 Prep Batch: 107062 Sample Preparation: 2015-11-19 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2010</b>	<b>2010</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408590 - 833-08**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126517 Date Analyzed: 2015-11-20 Analyzed By: CF  
 Prep Batch: 107064 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408591 - 833-09**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126462 Date Analyzed: 2015-11-18 Analyzed By: JR  
 Prep Batch: 107016 Sample Preparation: 2015-11-18 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>902</b>	<b>902</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408591 - 833-09**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126462 Date Analyzed: 2015-11-18 Analyzed By: JR  
 Prep Batch: 107016 Sample Preparation: 2015-11-18 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>109</b>	<b>109</b>	<1.94	mg/L	50	1.94	0.5	0.0387

**Sample: 408591 - 833-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126515 Date Analyzed: 2015-11-20 Analyzed By: MC  
 Prep Batch: 107062 Sample Preparation: 2015-11-19 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>3860</b>	<b>3860</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408591 - 833-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126648 Date Analyzed: 2015-11-25 Analyzed By: CF  
 Prep Batch: 107172 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408592 - 833-10**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126462 Date Analyzed: 2015-11-18 Analyzed By: JR  
 Prep Batch: 107016 Sample Preparation: 2015-11-18 Prepared By: JR

*continued ...*



*sample 408592 continued ...*

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>660</b>	<b>660</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408592 - 833-10**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126462 Date Analyzed: 2015-11-18 Analyzed By: JR  
 Prep Batch: 107016 Sample Preparation: 2015-11-18 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>2.69</b>	<b>2.69</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408592 - 833-10**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126600 Date Analyzed: 2015-11-24 Analyzed By: MC  
 Prep Batch: 107131 Sample Preparation: 2015-11-23 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2580</b>	<b>2580</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408592 - 833-10**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126648 Date Analyzed: 2015-11-25 Analyzed By: CF  
 Prep Batch: 107172 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126462  
Prep Batch: 107016Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-18Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126462  
Prep Batch: 107016Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-18Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126515  
Prep Batch: 107062Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-19Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126517  
Prep Batch: 107064Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

---

**Method Blank (1)**QC Batch: 126600  
Prep Batch: 107131Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-23Analyzed By: MC  
Prepared By: MC

---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

---

**Method Blank (1)**QC Batch: 126648  
Prep Batch: 107172Date Analyzed: 2015-11-25  
QC Preparation: 2015-11-25Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

---

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## Duplicates

**Duplicate (1)** Duplicated Sample: 408591QC Batch: 126515  
Prep Batch: 107062Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-19Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	3840	3860	mg/L	50	0	10

**Duplicate (1)** Duplicated Sample: 408638QC Batch: 126600  
Prep Batch: 107131Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-23Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2510	2560	mg/L	50	2	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126462  
Prep Batch: 107016Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-18Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.7	mg/L	1	25.0	<0.00930	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.8	mg/L	1	25.0	<0.00930	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126462  
Prep Batch: 107016Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-18Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.97	mg/L	1	5.00	<0.0387	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.97	mg/L	1	5.00	<0.0387	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126515  
Prep Batch: 107062Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-19Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	997	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	998	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126517  
Prep Batch: 107064

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	34.2	mg/L	1	40.0	<1.18	86	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	34.7	mg/L	1	40.0	<1.18	87	82.8 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126600  
Prep Batch: 107131

Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-23

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	997	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	998	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 126648  
Prep Batch: 107172

Date Analyzed: 2015-11-25  
QC Preparation: 2015-11-25

Analyzed By: CF  
Prepared By: CF



Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	37.0	mg/L	1	40.0	<1.18	92	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	37.5	mg/L	1	40.0	<1.18	94	82.8 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 408592QC Batch: 126462  
Prep Batch: 107016Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-18Analyzed By: JR  
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1,4,5	2120	mg/L	55.6	1390	660	105	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1,4,5	2120	mg/L	55.6	1390	660	105	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408592QC Batch: 126462  
Prep Batch: 107016Date Analyzed: 2015-11-18  
QC Preparation: 2015-11-18Analyzed By: JR  
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1,4,5	285	mg/L	55.6	278	2.69	102	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1,4,5	285	mg/L	55.6	278	2.69	102	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408590QC Batch: 126517  
Prep Batch: 107064Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-20Analyzed By: CF  
Prepared By: CF

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2,3,6,7	34.7	mg/L	1	40.0	<1.18	87	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.3	mg/L	1	40.0	<1.18	88	77.9 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408638

QC Batch: 126648  
Prep Batch: 107172

Date Analyzed: 2015-11-25  
QC Preparation: 2015-11-25

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.8	mg/L	1	40.0	<1.18	90	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	36.4	mg/L	1	40.0	<1.18	91	77.9 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-1)

QC Batch: 126462

Date Analyzed: 2015-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.4	98	90 - 110	2015-11-18

### Standard (CCV-1)

QC Batch: 126462

Date Analyzed: 2015-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.90	98	90 - 110	2015-11-18

### Standard (CCV-2)

QC Batch: 126462

Date Analyzed: 2015-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.2	101	90 - 110	2015-11-18

### Standard (CCV-2)

QC Batch: 126462

Date Analyzed: 2015-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.98	100	90 - 110	2015-11-18

**Standard (CCV-3)**

QC Batch: 126462

Date Analyzed: 2015-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.9	100	90 - 110	2015-11-18

**Standard (CCV-3)**

QC Batch: 126462

Date Analyzed: 2015-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.00	100	90 - 110	2015-11-18

**Standard (CCV-4)**

QC Batch: 126462

Date Analyzed: 2015-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.3	101	90 - 110	2015-11-18

**Standard (CCV-4)**

QC Batch: 126462

Date Analyzed: 2015-11-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.01	100	90 - 110	2015-11-18

**Standard (ICV-1)**

QC Batch: 126517

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.76	95	85 - 115	2015-11-20

**Standard (CCV-1)**

QC Batch: 126517

Date Analyzed: 2015-11-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	5.18	104	85 - 115	2015-11-20

**Standard (ICV-1)**

QC Batch: 126648

Date Analyzed: 2015-11-25

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-11-25

**Standard (CCV-1)**

QC Batch: 126648

Date Analyzed: 2015-11-25

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-11-25



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## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

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# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





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## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

George Segura  
 Big Sky Dairy  
 17800 Stern Drive  
 P.O. Box 10  
 Mesquite, NM, 88048

Report Date: November 30, 2015

Work Order: 15111919



DP: 481240  
 Project Location: 17800 Stern Drive, Mesquite, NM 88048  
 Project Name: Big Sky Dairy

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408637	833-04	Water	2015-11-19	08:28	2015-11-19
408638	833-06	Water	2015-11-19	09:31	2015-11-19
408639	Lagoon	Water	2015-11-19	07:40	2015-11-19

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager



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## Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2015-11-19 and assigned to work order 15111919. Samples for work order 15111919 were received intact at a temperature of 2.6 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	107056	2015-11-19 at 19:33	126506	2015-11-19 at 19:33
NO3 (IC)	E 300.0	107056	2015-11-19 at 19:33	126506	2015-11-19 at 19:33
P, Total	S 6010C	107049	2015-11-20 at 12:32	126551	2015-11-23 at 11:24
TDS	SM 2540C	107131	2015-11-23 at 14:35	126600	2015-11-24 at 08:06
TKN	SM 4500-NH3 B,C	107172	2015-11-25 at 10:10	126648	2015-11-25 at 13:45

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111919 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 408637 - 833-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>762</b>	<b>762</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408637 - 833-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>11.8</b>	<b>11.8</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408637 - 833-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126600 Date Analyzed: 2015-11-24 Analyzed By: MC  
 Prep Batch: 107131 Sample Preparation: 2015-11-23 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	<b>2310</b>	<b>2310</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408637 - 833-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126648 Date Analyzed: 2015-11-25 Analyzed By: CF  
 Prep Batch: 107172 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,8	<b>3.36</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408638 - 833-06**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126506                              Date Analyzed: 2015-11-19                      Analyzed By: JR  
 Prep Batch: 107056                              Sample Preparation: 2015-11-19                      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>752</b>	<b>752</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408638 - 833-06**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126506                              Date Analyzed: 2015-11-19                      Analyzed By: JR  
 Prep Batch: 107056                              Sample Preparation: 2015-11-19                      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>51.1</b>	<b>51.1</b>	<0.387	mg/L	10	0.387	0.5	0.0387

**Sample: 408638 - 833-06**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 126600                              Date Analyzed: 2015-11-24                      Analyzed By: MC  
 Prep Batch: 107131                              Sample Preparation: 2015-11-23                      Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	<b>2560</b>	<b>2560</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408638 - 833-06**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126648 Date Analyzed: 2015-11-25 Analyzed By: CF  
 Prep Batch: 107172 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408639 - Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>682</b>	<b>682</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408639 - Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,6	<b>2.43</b>	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408639 - Lagoon**

Laboratory: Lubbock  
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A  
 QC Batch: 126551 Date Analyzed: 2015-11-23 Analyzed By: RR  
 Prep Batch: 107049 Sample Preparation: 2015-11-20 Prepared By: RR

*continued ...*

*sample 408639 continued ...*

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Phosphorous		3,5,7,8	<b>11.3</b>	<b>11.3</b>	<0.00389	mg/L	1	0.00389	0.5	0.00389

**Sample: 408639 - Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126600 Date Analyzed: 2015-11-24 Analyzed By: MC  
 Prep Batch: 107131 Sample Preparation: 2015-11-23 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>5920</b>	<b>5920</b>	<500	mg/L	200	500	2.5	2.5

**Sample: 408639 - Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126648 Date Analyzed: 2015-11-25 Analyzed By: CF  
 Prep Batch: 107172 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	<b>335</b>	<b>335</b>	<2.36	mg/L	2	2.36	10	1.18



## Method Blanks

### Method Blank (1)

QC Batch: 126506  
Prep Batch: 107056Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126506  
Prep Batch: 107056Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126551  
Prep Batch: 107049Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-20Analyzed By: RR  
Prepared By: PM

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		3,5,7,8	<0.00389	mg/L	0.00389

### Method Blank (1)

QC Batch: 126600  
Prep Batch: 107131Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-23Analyzed By: MC  
Prepared By: MC

---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<25.0	mg/L	2.5

---

**Method Blank (1)**QC Batch: 126648  
Prep Batch: 107172Date Analyzed: 2015-11-25  
QC Preparation: 2015-11-25Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.18	mg/L	1.18

---

# Duplicates

Duplicate (1) Duplicated Sample: 408638

QC Batch: 126600  
Prep Batch: 107131

Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-23

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2510	2560	mg/L	50	2	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126506  
Prep Batch: 107056Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.6	mg/L	1	25.0	<0.00930	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.6	mg/L	1	25.0	<0.00930	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126506  
Prep Batch: 107056Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	5.08	mg/L	1	5.00	<0.0387	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	5.07	mg/L	1	5.00	<0.0387	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126551  
Prep Batch: 107049Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-20Analyzed By: RR  
Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,8	0.498	mg/L	1	0.500	<0.00389	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



## Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 408624QC Batch: 126506  
Prep Batch: 107056Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	2290	mg/L	55.6	1390	800	107	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	2290	mg/L	55.6	1390	800	107	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408624QC Batch: 126506  
Prep Batch: 107056Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	299	mg/L	55.6	278	12.2	103	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	300	mg/L	55.6	278	12.2	104	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408582QC Batch: 126551  
Prep Batch: 107049Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-20Analyzed By: RR  
Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,8	0.457	mg/L	1	0.500	<0.00389	91	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		3,5,7,8	0.476	mg/L	1	0.500	<0.00389	95	75 - 125	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408638

QC Batch: 126648  
Prep Batch: 107172

Date Analyzed: 2015-11-25  
QC Preparation: 2015-11-25

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	35.8	mg/L	1	40.0	<1.18	90	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	36.4	mg/L	1	40.0	<1.18	91	77.9 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-2)

QC Batch: 126506

Date Analyzed: 2015-11-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.0	100	90 - 110	2015-11-19

### Standard (CCV-2)

QC Batch: 126506

Date Analyzed: 2015-11-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.94	99	90 - 110	2015-11-19

### Standard (CCV-3)

QC Batch: 126506

Date Analyzed: 2015-11-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.2	101	90 - 110	2015-11-19

### Standard (CCV-3)

QC Batch: 126506

Date Analyzed: 2015-11-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.98	100	90 - 110	2015-11-19

**Standard (CCV-4)**

QC Batch: 126506

Date Analyzed: 2015-11-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.3	101	90 - 110	2015-11-19

**Standard (CCV-4)**

QC Batch: 126506

Date Analyzed: 2015-11-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.00	100	90 - 110	2015-11-19

**Standard (ICV-1)**

QC Batch: 126551

Date Analyzed: 2015-11-23

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		3,5,7,8	mg/L	5.00	4.94	99	90 - 110	2015-11-23

**Standard (CCV-1)**

QC Batch: 126551

Date Analyzed: 2015-11-23

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		3,5,7,8	mg/L	5.00	5.18	104	90 - 110	2015-11-23

**Standard (ICV-1)**

QC Batch: 126648

Date Analyzed: 2015-11-25

Analyzed By: CF

Report Date: November 30, 2015

Work Order: 15111919  
Big Sky Dairy

Page Number: 18 of 21  
17800 Stern Drive, Mesquite, NM 88048

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2015-11-25

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**Standard (CCV-1)**

QC Batch: 126648

Date Analyzed: 2015-11-25

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2015-11-25

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## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-15-6	El Paso
7	NELAP	T104704219-15-11	Lubbock
8		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.



F Description

U The analyte is not detected above the SDL

---

## Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





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E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

(Corrected Report)

Edward DeRuyter  
Sunset Dairy  
17900 Stern Drive  
P.O. Box 10  
Mesquite, NM, 88048

Report Date: December 4, 2015

Work Order: 15111916



Project Location: 17900 S. Stern Dr., Mesquite, NM  
Project Name: Sunset Dairy  
Project Number: 481245

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408622	257/260-01	Water	2015-11-19	12:23	2015-11-19
408623	257-01	Water	2015-11-19	11:28	2015-11-19
408624	257-02	Water	2015-11-19	11:00	2015-11-19
408625	Lagoon	Water	2015-11-19	12:47	2015-11-19

### Report Corrections (Work Order 15111916)

- 12/4/15: Corrected descriptions on samples 408623 and 408624.

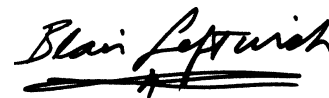
These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 27 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

A handwritten signature in black ink that reads "Blair Leftwich". The signature is written in a cursive style and is underlined with a thick, dark line.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Sunset Dairy were received by TraceAnalysis, Inc. on 2015-11-19 and assigned to work order 15111916. Samples for work order 15111916 were received intact at a temperature of 2.6 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	107056	2015-11-19 at 19:33	126506	2015-11-19 at 19:33
NO3 (IC)	E 300.0	107056	2015-11-19 at 19:33	126506	2015-11-19 at 19:33
P, Total	S 6010C	107049	2015-11-20 at 12:32	126551	2015-11-23 at 11:24
SO4 (IC)	E 300.0	107056	2015-11-19 at 19:33	126506	2015-11-19 at 19:33
Sulfide	SM 4500-S2 D	107098	2015-11-23 at 12:50	126563	2015-11-23 at 14:00
TDS	SM 2540C	107131	2015-11-23 at 14:35	126600	2015-11-24 at 08:06
TKN	SM 4500-NH3 B,C	107172	2015-11-25 at 10:10	126648	2015-11-25 at 13:45

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15111916 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 408622 - 257/260-01

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	<b>542</b>	<b>542</b>	<0.186	mg/L	20	0.186	2.5	0.0093

## Sample: 408622 - 257/260-01

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	Je,U	1,4,6	<0.194	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 408622 - 257/260-01

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,6	<b>329</b>	<b>329</b>	<0.389	mg/L	10	0.389	2.5	0.0389

## Sample: 408622 - 257/260-01

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126600 Date Analyzed: 2015-11-24 Analyzed By: MC  
 Prep Batch: 107131 Sample Preparation: 2015-11-23 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	<b>2260</b>	<b>2260</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408622 - 257/260-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126648 Date Analyzed: 2015-11-25 Analyzed By: CF  
 Prep Batch: 107172 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	<b>15.7</b>	<b>15.7</b>	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408623 - 257-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>821</b>	<b>821</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408623 - 257-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>49.1</b>	<b>49.1</b>	<0.387	mg/L	10	0.387	0.5	0.0387

**Sample: 408623 - 257-01**

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Laboratory: El Paso  
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,6	<b>590</b>	<b>590</b>	<1.94	mg/L	50	1.94	2.5	0.0389

**Sample: 408623 - 257-01**

Laboratory: El Paso  
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
QC Batch: 126600 Date Analyzed: 2015-11-24 Analyzed By: MC  
Prep Batch: 107131 Sample Preparation: 2015-11-23 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>3680</b>	<b>3680</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408623 - 257-01**

Laboratory: Lubbock  
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
QC Batch: 126648 Date Analyzed: 2015-11-25 Analyzed By: CF  
Prep Batch: 107172 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408624 - 257-02**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

*continued ...*

sample 408624 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	<b>800</b>	<b>800</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408624 - 257-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	<b>12.2</b>	<b>12.2</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408624 - 257-02**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,6	<b>543</b>	<b>543</b>	<1.94	mg/L	50	1.94	2.5	0.0389

**Sample: 408624 - 257-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126600 Date Analyzed: 2015-11-24 Analyzed By: MC  
 Prep Batch: 107131 Sample Preparation: 2015-11-23 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>2890</b>	<b>2890</b>	<125	mg/L	50	125	2.5	2.5

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**Sample: 408624 - 257-02**

Laboratory: Lubbock  
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
QC Batch: 126648 Date Analyzed: 2015-11-25 Analyzed By: CF  
Prep Batch: 107172 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408625 - Lagoon**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>1110</b>	<b>1110</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408625 - Lagoon**

Laboratory: El Paso  
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,6	<b>2.32</b>	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408625 - Lagoon**

Laboratory: Lubbock  
Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A  
QC Batch: 126551 Date Analyzed: 2015-11-23 Analyzed By: RR  
Prep Batch: 107049 Sample Preparation: 2015-11-20 Prepared By: RR



Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Phosphorous		3,5,7,8	<b>11.0</b>	<b>11.0</b>	<0.00389	mg/L	1	0.00389	0.5	0.00389

**Sample: 408625 - Lagoon**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126506 Date Analyzed: 2015-11-19 Analyzed By: JR  
 Prep Batch: 107056 Sample Preparation: 2015-11-19 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,6	<b>13.7</b>	<b>13.7</b>	<0.194	mg/L	5	0.194	2.5	0.0389

**Sample: 408625 - Lagoon**

Laboratory: Lubbock  
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A  
 QC Batch: 126563 Date Analyzed: 2015-11-23 Analyzed By: CF  
 Prep Batch: 107098 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfide		2	<b>5.67</b>	<b>5.67</b>	<0.255	mg/L	25	0.255	0.1	0.0102

**Sample: 408625 - Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126600 Date Analyzed: 2015-11-24 Analyzed By: MC  
 Prep Batch: 107131 Sample Preparation: 2015-11-23 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>9260</b>	<b>9260</b>	<500	mg/L	200	500	2.5	2.5

**Sample: 408625 - Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A

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QC Batch: 126648  
Prep Batch: 107172

Date Analyzed: 2015-11-25  
Sample Preparation:

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	<b>304</b>	<b>304</b>	<2.36	mg/L	2	2.36	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126506  
Prep Batch: 107056

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126506  
Prep Batch: 107056

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126506  
Prep Batch: 107056

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1,4,6	<0.0389	mg/L	0.0389

### Method Blank (1)

QC Batch: 126551  
Prep Batch: 107049

Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-20

Analyzed By: RR  
Prepared By: PM

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		3,5,7,8	<0.00389	mg/L	0.00389

**Method Blank (1)**

QC Batch: 126563                      Date Analyzed: 2015-11-23                      Analyzed By: CF  
Prep Batch: 107098                      QC Preparation: 2015-11-23                      Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Sulfide		2	<0.0102	mg/L	0.0102

**Method Blank (1)**

QC Batch: 126600                      Date Analyzed: 2015-11-24                      Analyzed By: MC  
Prep Batch: 107131                      QC Preparation: 2015-11-23                      Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<25.0	mg/L	2.5

**Method Blank (1)**

QC Batch: 126648                      Date Analyzed: 2015-11-25                      Analyzed By: CF  
Prep Batch: 107172                      QC Preparation: 2015-11-25                      Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.18	mg/L	1.18

# Duplicates

Duplicate (1) Duplicated Sample: 408638

QC Batch: 126600  
Prep Batch: 107131

Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-23

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2510	2560	mg/L	50	2	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126506  
Prep Batch: 107056

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.6	mg/L	1	25.0	<0.00930	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.6	mg/L	1	25.0	<0.00930	102	90 - 110	0 20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126506  
Prep Batch: 107056

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	5.08	mg/L	1	5.00	<0.0387	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	5.07	mg/L	1	5.00	<0.0387	101	90 - 110	0 20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126506  
Prep Batch: 107056

Date Analyzed: 2015-11-19  
QC Preparation: 2015-11-19

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1,4,6	25.7	mg/L	1	25.0	<0.0389	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.





Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	997	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Dissolved Solids		1,4,6	998	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126648  
Prep Batch: 107172

Date Analyzed: 2015-11-25  
QC Preparation: 2015-11-25

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	37.0	mg/L	1	40.0	<1.18	92	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2,3,7,8	37.5	mg/L	1	40.0	<1.18	94	82.8 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

## Matrix Spike (MS-1) Spiked Sample: 408582

QC Batch: 126551  
Prep Batch: 107049

Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-20

Analyzed By: RR  
Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		3,5,7,8	0.457	mg/L	1	0.500	<0.00389	91	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Phosphorous		3,5,7,8	0.476	mg/L	1	0.500	<0.00389	95	75 - 125	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (MS-1) Spiked Sample: 408628

QC Batch: 126563  
Prep Batch: 107098

Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfide		2	0.422	mg/L	1	0.400	<0.0102	106	10 - 159

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Sulfide		2	0.384	mg/L	1	0.400	<0.0102	96	10 - 159	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (MS-1) Spiked Sample: 408638

QC Batch: 126648  
Prep Batch: 107172

Date Analyzed: 2015-11-25  
QC Preparation: 2015-11-25

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	35.8	mg/L	1	40.0	<1.18	90	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	36.4	mg/L	1	40.0	<1.18	91	77.9 - 115	2	20

---

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Calibration Standards

## Standard (CCV-1)

QC Batch: 126506

Date Analyzed: 2015-11-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.6	98	90 - 110	2015-11-19

## Standard (CCV-1)

QC Batch: 126506

Date Analyzed: 2015-11-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.88	98	90 - 110	2015-11-19

## Standard (CCV-1)

QC Batch: 126506

Date Analyzed: 2015-11-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	24.7	99	90 - 110	2015-11-19

## Standard (CCV-2)

QC Batch: 126506

Date Analyzed: 2015-11-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.0	100	90 - 110	2015-11-19





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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,6	mg/L	25.0	25.2	101	90 - 110	2015-11-19

#### Standard (ICV-1)

QC Batch: 126551

Date Analyzed: 2015-11-23

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		3,5,7,8	mg/L	5.00	4.94	99	90 - 110	2015-11-23

#### Standard (CCV-1)

QC Batch: 126551

Date Analyzed: 2015-11-23

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		3,5,7,8	mg/L	5.00	5.18	104	90 - 110	2015-11-23

#### Standard (ICV-1)

QC Batch: 126563

Date Analyzed: 2015-11-23

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.393	98	85 - 115	2015-11-23

#### Standard (CCV-1)

QC Batch: 126563

Date Analyzed: 2015-11-23

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.414	104	85 - 115	2015-11-23

**Standard (ICV-1)**

QC Batch: 126648

Date Analyzed: 2015-11-25

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2015-11-25

**Standard (CCV-1)**

QC Batch: 126648

Date Analyzed: 2015-11-25

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2015-11-25

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.104	Pass
Sulfide	SM 4500-S2 D	water	Spectrophotometer	Sulfide	0.0200	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

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# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-15-6	El Paso
7	NELAP	T104704219-15-11	Lubbock
8		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

---

F Description

---

U The analyte is not detected above the SDL

---

## Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





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(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Linda Armstrong  
Dona Ana Dairies

Report Date: December 8, 2015

P.O. Box 10  
Mesquite, NM, 88048

Work Order: 15112319



Project Location: Various Dairies, Dona Ana County, NM  
Project Name: Dona Ana Dairies Consortium  
Project #: 481241

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408923	DAD-01	water	2015-11-23	10:18	2015-11-23
408924	DAD-02	water	2015-11-23	10:32	2015-11-23
408925	DAD-03	water	2015-11-23	10:55	2015-11-23
408926	DAD-04	water	2015-11-23	11:17	2015-11-23
408927	DAD-05	water	2015-11-23	11:46	2015-11-23
408928	DAD-08	water	2015-11-23	12:10	2015-11-23
408929	DAD-09	water	2015-11-23	13:23	2015-11-23
408930	DAD-21	water	2015-11-23	13:08	2015-11-23
408931	DAD-22	water	2015-11-23	13:35	2015-11-23

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 30 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*



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Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2015-11-23 and assigned to work order 15112319. Samples for work order 15112319 were received intact at a temperature of 1.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	107121	2015-11-23 at 18:32	126590	2015-11-23 at 18:32
NO3 (IC)	E 300.0	107121	2015-11-23 at 18:32	126590	2015-11-23 at 18:32
TDS	SM 2540C	107147	2015-11-24 at 13:45	126620	2015-11-25 at 08:15
TKN	SM 4500-NH3 B,C	107229	2015-12-01 at 09:30	126715	2015-12-01 at 15:10
TKN	SM 4500-NH3 B,C	107279	2015-12-03 at 10:10	126769	2015-12-03 at 14:35

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15112319 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 408923 - DAD-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>491</b>	<b>491</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408923 - DAD-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>4.17</b>	<b>4.17</b>	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 408923 - DAD-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126620 Date Analyzed: 2015-11-25 Analyzed By: MC  
 Prep Batch: 107147 Sample Preparation: 2015-11-24 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1680</b>	<b>1680</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408923 - DAD-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126715 Date Analyzed: 2015-12-01 Analyzed By: CF  
 Prep Batch: 107229 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408924 - DAD-02**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126590                              Date Analyzed: 2015-11-23                      Analyzed By: JR  
 Prep Batch: 107121                              Sample Preparation: 2015-11-23                      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>493</b>	<b>493</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408924 - DAD-02**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 126590                              Date Analyzed: 2015-11-23                              Analyzed By: JR  
 Prep Batch: 107121                              Sample Preparation: 2015-11-23                              Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>10.3</b>	<b>10.3</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408924 - DAD-02**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 126620                              Date Analyzed: 2015-11-25                              Analyzed By: MC  
 Prep Batch: 107147                              Sample Preparation: 2015-11-24                              Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>1600</b>	<b>1600</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408924 - DAD-02**

Laboratory: Lubbock  
 Analysis: TKN  
 QC Batch: 126715  
 Prep Batch: 107229

Analytical Method: SM 4500-NH3 B,C  
 Date Analyzed: 2015-12-01  
 Sample Preparation:

Prep Method: N/A  
 Analyzed By: CF  
 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408925 - DAD-03**

Laboratory: El Paso  
 Analysis: Chloride (IC)  
 QC Batch: 126590  
 Prep Batch: 107121

Analytical Method: E 300.0  
 Date Analyzed: 2015-11-23  
 Sample Preparation: 2015-11-23

Prep Method: N/A  
 Analyzed By: JR  
 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>603</b>	<b>603</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408925 - DAD-03**

Laboratory: El Paso  
 Analysis: NO3 (IC)  
 QC Batch: 126590  
 Prep Batch: 107121

Analytical Method: E 300.0  
 Date Analyzed: 2015-11-23  
 Sample Preparation: 2015-11-23

Prep Method: N/A  
 Analyzed By: JR  
 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1,4,5	<0.194	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408925 - DAD-03**

Laboratory: El Paso  
 Analysis: TDS  
 QC Batch: 126620  
 Prep Batch: 107147

Analytical Method: SM 2540C  
 Date Analyzed: 2015-11-25  
 Sample Preparation: 2015-11-24

Prep Method: N/A  
 Analyzed By: MC  
 Prepared By: MC

*continued . . .*



*sample 408925 continued ...*

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2440</b>	<b>2440</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408925 - DAD-03**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 126715

Prep Batch: 107229

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2015-12-01

Sample Preparation:

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408926 - DAD-04**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 126590

Prep Batch: 107121

Analytical Method: E 300.0

Date Analyzed: 2015-11-23

Sample Preparation: 2015-11-23

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>443</b>	<b>443</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408926 - DAD-04**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 126590

Prep Batch: 107121

Analytical Method: E 300.0

Date Analyzed: 2015-11-23

Sample Preparation: 2015-11-23

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J,Je	1,4,5	<b>0.0853</b>	<0.500	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 408926 - DAD-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126620 Date Analyzed: 2015-11-25 Analyzed By: MC  
 Prep Batch: 107147 Sample Preparation: 2015-11-24 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1690</b>	<b>1690</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408926 - DAD-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126715 Date Analyzed: 2015-12-01 Analyzed By: CF  
 Prep Batch: 107229 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>6.16</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408927 - DAD-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>493</b>	<b>493</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408927 - DAD-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	Je,U	1,4,5	<0.194	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408927 - DAD-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126620 Date Analyzed: 2015-11-25 Analyzed By: MC  
 Prep Batch: 107147 Sample Preparation: 2015-11-24 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2100</b>	<b>2100</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408927 - DAD-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126715 Date Analyzed: 2015-12-01 Analyzed By: CF  
 Prep Batch: 107229 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>2.80</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408928 - DAD-08**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

*continued ...*

sample 408928 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>2070</b>	<b>2070</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408928 - DAD-08**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>66.1</b>	<b>66.1</b>	<0.387	mg/L	10	0.387	0.5	0.0387

**Sample: 408928 - DAD-08**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126620 Date Analyzed: 2015-11-25 Analyzed By: MC  
 Prep Batch: 107147 Sample Preparation: 2015-11-24 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>5980</b>	<b>5980</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408928 - DAD-08**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126715 Date Analyzed: 2015-12-01 Analyzed By: CF  
 Prep Batch: 107229 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408929 - DAD-09**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>563</b>	<b>563</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408929 - DAD-09**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>4.95</b>	<b>4.95</b>	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 408929 - DAD-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126620 Date Analyzed: 2015-11-25 Analyzed By: MC  
 Prep Batch: 107147 Sample Preparation: 2015-11-24 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1940</b>	<b>1940</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408929 - DAD-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126715 Date Analyzed: 2015-12-01 Analyzed By: CF  
 Prep Batch: 107229 Sample Preparation: Prepared By: CF

*continued . . .*

sample 408929 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408930 - DAD-21**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126590                              Date Analyzed: 2015-11-23                      Analyzed By: JR  
 Prep Batch: 107121                              Sample Preparation: 2015-11-23                      Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>708</b>	<b>708</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408930 - DAD-21**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126590                              Date Analyzed: 2015-11-23                      Analyzed By: JR  
 Prep Batch: 107121                              Sample Preparation: 2015-11-23                      Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>6.28</b>	<b>6.28</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408930 - DAD-21**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 126620                              Date Analyzed: 2015-11-25                      Analyzed By: MC  
 Prep Batch: 107147                              Sample Preparation: 2015-11-24                      Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2090</b>	<b>2090</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408930 - DAD-21**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126769 Date Analyzed: 2015-12-03 Analyzed By: CF  
 Prep Batch: 107279 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 408931 - DAD-22**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>964</b>	<b>964</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 408931 - DAD-22**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>6.52</b>	<b>6.52</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408931 - DAD-22**



Laboratory: El Paso	Analytical Method: SM 2540C	Prep Method: N/A
Analysis: TDS	Date Analyzed: 2015-11-25	Analyzed By: MC
QC Batch: 126620	Sample Preparation: 2015-11-24	Prepared By: MC
Prep Batch: 107147		

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2340</b>	<b>2340</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408931 - DAD-22**

Laboratory: Lubbock	Analytical Method: SM 4500-NH3 B,C	Prep Method: N/A
Analysis: TKN	Date Analyzed: 2015-12-03	Analyzed By: CF
QC Batch: 126769	Sample Preparation:	Prepared By: CF
Prep Batch: 107279		

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126590  
Prep Batch: 107121Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126590  
Prep Batch: 107121Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126620  
Prep Batch: 107147Date Analyzed: 2015-11-25  
QC Preparation: 2015-11-24Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126715  
Prep Batch: 107229Date Analyzed: 2015-12-01  
QC Preparation: 2015-12-01Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

**Method Blank (1)**

QC Batch: 126769  
 Prep Batch: 107279

Date Analyzed: 2015-12-03  
 QC Preparation: 2015-12-03

Analyzed By: CF  
 Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

# Duplicates

**Duplicate (1)**    Duplicated Sample: 408931

QC Batch: 126620  
 Prep Batch: 107147

Date Analyzed: 2015-11-25  
 QC Preparation: 2015-11-24

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2270	2340	mg/L	50	3	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126590  
Prep Batch: 107121Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	26.1	mg/L	1	25.0	<0.00930	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	26.2	mg/L	1	25.0	<0.00930	105	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126590  
Prep Batch: 107121Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	5.17	mg/L	1	5.00	<0.0387	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	5.18	mg/L	1	5.00	<0.0387	104	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126620  
Prep Batch: 107147Date Analyzed: 2015-11-25  
QC Preparation: 2015-11-24Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	998	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



## Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 408933QC Batch: 126590  
Prep Batch: 107121Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	2210	mg/L	55.6	1390	699	109	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	2200	mg/L	55.6	1390	699	108	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408933QC Batch: 126590  
Prep Batch: 107121Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	292	mg/L	55.6	278	<0.523	105	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	290	mg/L	55.6	278	<0.523	104	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408929QC Batch: 126715  
Prep Batch: 107229Date Analyzed: 2015-12-01  
QC Preparation: 2015-12-01Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.8	mg/L	1	40.0	<1.18	90	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.3	mg/L	1	40.0	<1.18	88	77.9 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 409018

QC Batch: 126769  
 Prep Batch: 107279

Date Analyzed: 2015-12-03  
 QC Preparation: 2015-12-03

Analyzed By: CF  
 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.3	mg/L	1	40.0	<1.18	88	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	36.4	mg/L	1	40.0	<1.18	91	77.9 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



**Standard (CCV-3)**

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.3	101	90 - 110	2015-11-23

**Standard (CCV-3)**

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.01	100	90 - 110	2015-11-23

**Standard (CCV-4)**

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.4	102	90 - 110	2015-11-23

**Standard (CCV-4)**

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.01	100	90 - 110	2015-11-23

**Standard (CCV-5)**

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.3	101	90 - 110	2015-11-23

**Standard (CCV-5)**

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.02	100	90 - 110	2015-11-23

**Standard (ICV-1)**

QC Batch: 126715

Date Analyzed: 2015-12-01

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-12-01

**Standard (CCV-1)**

QC Batch: 126715

Date Analyzed: 2015-12-01

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-12-01

**Standard (ICV-1)**

QC Batch: 126769

Date Analyzed: 2015-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-12-03

**Standard (CCV-1)**

QC Batch: 126769

Date Analyzed: 2015-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-12-03

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL



## **Attachments**

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.





**TraceAnalysis, Inc.**  
 6701 Aberdeen Avenue, Suite 9  
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 Fax (432) 689-6313  
 1 (888) 588-3443

BioAquatic Testing  
 2501 Mayes Rd., Ste 100  
 Carrollton, Texas 75006  
 Tel (972) 242-7750  
 Fax (972) 242-7750  
 Brandon & Clark  
 3403 Industrial Blvd.  
 Hobbs, NM 88240  
 Tel (575) 392-7561  
 Fax (575) 392-4508

Company Name: DNA United Fueling Solutions  
 Address: (Street, City, Zip), El Paso TX  
 Contact Person: Rosalio Gutierrez  
 Invoice to: (If different from above)  
 Project #: 981241  
 Project Location (including state): Varins Dairy Area, NM

Phone #: 915-857-8152  
 Fax #:   
 E-mail: equilibr@alpacapem.com  
 Project Name: DAD's  
 Sampler Signature: [Signature]

200 East Sunset Rd., Suite E  
 El Paso, Texas 79922  
 Tel (915) 585-3443  
 Fax (915) 585-4944  
 1 (888) 588-3443

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE
4089282	DAD-06	1	250	X						X	X	X	1210	
29-1	DAD-09	1	250	X						X	X	X	1323	
↓-2	DAD-09	1	250	X						X	X	X	1323	
30-1	DAD-21	1	250	X						X	X	X	1308	
↓-2	DAD-21	1	250	X						X	X	X	1308	
31-1	DAD-22	1	250	X						X	X	X	1335	
↓-2	DAD-22	1	250	X						X	X	X	1335	

LAB USE ONLY	RECEIVED BY	COMPANY	DATE	TIME	INST	OBS	COR
	[Signature]	DNA	11-23-15	1345	11-23-15	1345	1345
	[Signature]	TECO	11-23-15	1630			

LAB USE ONLY	RECEIVED BY	COMPANY	DATE	TIME	INST	OBS	COR
	[Signature]	DNA	11-23-15	1345	11-23-15	1345	1345
	[Signature]	TECO	11-23-15	1630			

**ANALYSIS REQUEST**  
 (Circle or Specify Method No.)

Method No.	Method Name	Method Description
X	MTBE	8021 / 602 / 8260 / 624
X	BTEX	8021 / 602 / 8260 / 624
X	TPH	418.1 / TX1005 / TX1005 Ext(C35)
X	TPH	8015 GRO / DRO / TVHC
X	PAH	8270 / 625
X	Total Metals	Ag As Ba Cd Cr Pb Se Hg 6010/200.7
X	TCLP Metals	Ag As Ba Cd Cr Pb Se Hg
X	TCLP Volatiles	
X	TCLP Pesticides	
X	RCI	
X	GC/MS Vol.	8260 / 624
X	GC/MS Semi. Vol.	8270 / 625
X	PCBs	8082 / 608
X	Pesticides	8081 / 608
X	BOD, TSS, pH	
X	Moisture Content	
X	Cl, F, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity	
X	Na, Ca, Mg, K, TDS, EC	
X	Nitrates	EPA 300.0
X	TRW	SM 4500 NORK C
X	Chloride	EPA 800
X	TDS	SM 2540 C MND
	Turn Around Time	if different from standard

REMARKS:  
 LAB USE ONLY  
 INST: 11-23-15 1345  
 OBS: 11-23-15 1345  
 COR: 11-23-15 1345  
 INST: 11-23-15 1630  
 OBS: 11-23-15 1630  
 COR: 11-23-15 1630  
 Dry Weight Basis Required  
 TRRP Report Required  
 Check if Special Reporting Limits Are Needed  
 Carrier # 15162319



6701 Aberdeen Avenue, Suite 9      Lubbock, Texas 79424      800-378-1296      806-794-1296      FAX 806-794-1298  
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5002 Basin Street, Suite A1      Midland, Texas 79703      432-689-6301      FAX 432-689-6313  
(BioAquatic) 2501 Mayes Rd., Suite 100      Carrollton, Texas 75006      972-242-7750  
E-Mail: lab@traceanalysis.com      WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Bruce Bonestroo  
River Valley Dairy, LLC  
1400 La Chuga Rd., Mesquite  
P.O. Box 1929  
Anthony, NM, 88021

Report Date: December 8, 2015

Work Order: 15112321



Project Location: 1400 La Chuga Rd., Mesquite, NM  
Project Name: River Valley Dairy, LLC

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
408933	167-08	water	2015-11-23	09:43	2015-11-23

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*



---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2015-11-23 and assigned to work order 15112321. Samples for work order 15112321 were received intact at a temperature of 1.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	107121	2015-11-23 at 18:32	126590	2015-11-23 at 18:32
NO3 (IC)	E 300.0	107121	2015-11-23 at 18:32	126590	2015-11-23 at 18:32
TDS	SM 2540C	107223	2015-11-30 at 11:35	126708	2015-12-01 at 07:45
TKN	SM 4500-NH3 B,C	107279	2015-12-03 at 10:10	126769	2015-12-03 at 14:35

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15112321 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

**Sample: 408933 - 167-08**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	<b>699</b>	<b>699</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 408933 - 167-08**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126590 Date Analyzed: 2015-11-23 Analyzed By: JR  
 Prep Batch: 107121 Sample Preparation: 2015-11-23 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	u	1,4,6	<0.194	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 408933 - 167-08**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126708 Date Analyzed: 2015-12-01 Analyzed By: MC  
 Prep Batch: 107223 Sample Preparation: 2015-11-30 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>2460</b>	<b>2460</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 408933 - 167-08**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126769 Date Analyzed: 2015-12-03 Analyzed By: CF  
 Prep Batch: 107279 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2,3,7,9	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126590  
Prep Batch: 107121Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126590  
Prep Batch: 107121Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126708  
Prep Batch: 107223Date Analyzed: 2015-12-01  
QC Preparation: 2015-11-30Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126769  
Prep Batch: 107279Date Analyzed: 2015-12-03  
QC Preparation: 2015-12-03Analyzed By: CF  
Prepared By: CF

Report Date: December 8, 2015

Work Order: 15112321  
River Valley Dairy, LLC

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1400 La Chuga Rd., Mesquite, NM

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,9	<1.18	mg/L	1.18

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 408933

QC Batch: 126708  
 Prep Batch: 107223

Date Analyzed: 2015-12-01  
 QC Preparation: 2015-11-30

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2440	2460	mg/L	50	1	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126590  
Prep Batch: 107121

Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	26.1	mg/L	1	25.0	<0.00930	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	26.2	mg/L	1	25.0	<0.00930	105	90 - 110	0 20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126590  
Prep Batch: 107121

Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	5.17	mg/L	1	5.00	<0.0387	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	5.18	mg/L	1	5.00	<0.0387	104	90 - 110	0 20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126708  
Prep Batch: 107223

Date Analyzed: 2015-12-01  
QC Preparation: 2015-11-30

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	999	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	999	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126769  
Prep Batch: 107279

Date Analyzed: 2015-12-03  
QC Preparation: 2015-12-03

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	35.8	mg/L	1	40.0	<1.18	90	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	36.4	mg/L	1	40.0	<1.18	91	82.8 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



# Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 408933QC Batch: 126590  
Prep Batch: 107121Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	2210	mg/L	55.6	1390	699	109	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	2200	mg/L	55.6	1390	699	108	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 408933QC Batch: 126590  
Prep Batch: 107121Date Analyzed: 2015-11-23  
QC Preparation: 2015-11-23Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	292	mg/L	55.6	278	<0.523	105	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	290	mg/L	55.6	278	<0.523	104	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 409018QC Batch: 126769  
Prep Batch: 107279Date Analyzed: 2015-12-03  
QC Preparation: 2015-12-03Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	35.3	mg/L	1	40.0	<1.18	88	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	36.4	mg/L	1	40.0	<1.18	91	77.9 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-2)

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.3	101	90 - 110	2015-11-23

### Standard (CCV-2)

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.00	100	90 - 110	2015-11-23

### Standard (CCV-3)

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.3	101	90 - 110	2015-11-23

### Standard (CCV-3)

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.01	100	90 - 110	2015-11-23

**Standard (CCV-4)**

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.4	102	90 - 110	2015-11-23

**Standard (CCV-4)**

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.01	100	90 - 110	2015-11-23

**Standard (CCV-5)**

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.3	101	90 - 110	2015-11-23

**Standard (CCV-5)**

QC Batch: 126590

Date Analyzed: 2015-11-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.02	100	90 - 110	2015-11-23

**Standard (ICV-1)**

QC Batch: 126769

Date Analyzed: 2015-12-03

Analyzed By: CF

Report Date: December 8, 2015

Work Order: 15112321  
River Valley Dairy, LLC

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1400 La Chuga Rd., Mesquite, NM

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.48	90	85 - 115	2015-12-03

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**Standard (CCV-1)**

QC Batch: 126769

Date Analyzed: 2015-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.48	90	85 - 115	2015-12-03

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## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-15-6	El Paso
7	NELAP	T104704219-15-11	Lubbock
8	NELAP	T104704392-14-8	Midland
9		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.



F	Description
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

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## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
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 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Linda Armstrong  
 Dona Ana Dairies

Report Date: December 8, 2015

P.O. Box 10  
 Mesquite, NM, 88048

Work Order: 15113007



Project Location: Various Dairies, Dona Ana County, NM  
 Project Name: Dona Ana Dairies Consortium  
 Project #: 481241

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
409170	Dad-07	water	2015-11-30	09:42	2015-11-30
409171	Dad-16	water	2015-11-30	11:45	2015-11-30
409172	Dad-17	water	2015-11-30	11:14	2015-11-30
409173	Dad-18	water	2015-11-30	10:48	2015-11-30
409174	Dad-19	water	2015-11-30	10:17	2015-11-30

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*



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Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2015-11-30 and assigned to work order 15113007. Samples for work order 15113007 were received intact at a temperature of 3.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	107300	2015-11-30 at 18:40	126790	2015-11-30 at 18:40
NO3 (IC)	E 300.0	107300	2015-11-30 at 18:40	126790	2015-11-30 at 18:40
TDS	SM 2540C	107262	2015-12-02 at 13:18	126755	2015-12-03 at 08:05
TKN	SM 4500-NH3 B,C	107332	2015-12-07 at 10:50	126825	2015-12-07 at 14:30

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15113007 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 409170 - Dad-07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126790 Date Analyzed: 2015-11-30 Analyzed By: JR  
 Prep Batch: 107300 Sample Preparation: 2015-11-30 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>638</b>	<b>638</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409170 - Dad-07**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126790 Date Analyzed: 2015-11-30 Analyzed By: JR  
 Prep Batch: 107300 Sample Preparation: 2015-11-30 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>6.82</b>	<b>6.82</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 409170 - Dad-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126755 Date Analyzed: 2015-12-03 Analyzed By: MC  
 Prep Batch: 107262 Sample Preparation: 2015-12-02 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2020</b>	<b>2020</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409170 - Dad-07**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126825 Date Analyzed: 2015-12-07 Analyzed By: CF  
 Prep Batch: 107332 Sample Preparation: Prepared By: CF



Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409171 - Dad-16**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126790                              Date Analyzed: 2015-11-30                      Analyzed By: JR  
 Prep Batch: 107300                              Sample Preparation: 2015-11-30                      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>611</b>	<b>611</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409171 - Dad-16**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 126790                              Date Analyzed: 2015-11-30                              Analyzed By: JR  
 Prep Batch: 107300                              Sample Preparation: 2015-11-30                              Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J,Je	1,4,5	<b>1.25</b>	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 409171 - Dad-16**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 126755                              Date Analyzed: 2015-12-03                              Analyzed By: MC  
 Prep Batch: 107262                              Sample Preparation: 2015-12-02                              Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2520</b>	<b>2520</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409171 - Dad-16**

Laboratory: Lubbock  
 Analysis: TKN  
 QC Batch: 126825  
 Prep Batch: 107332

Analytical Method: SM 4500-NH3 B,C  
 Date Analyzed: 2015-12-07  
 Sample Preparation:

Prep Method: N/A  
 Analyzed By: CF  
 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409172 - Dad-17**

Laboratory: El Paso  
 Analysis: Chloride (IC)  
 QC Batch: 126790  
 Prep Batch: 107300

Analytical Method: E 300.0  
 Date Analyzed: 2015-11-30  
 Sample Preparation: 2015-11-30

Prep Method: N/A  
 Analyzed By: JR  
 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>373</b>	<b>373</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409172 - Dad-17**

Laboratory: El Paso  
 Analysis: NO3 (IC)  
 QC Batch: 126790  
 Prep Batch: 107300

Analytical Method: E 300.0  
 Date Analyzed: 2015-11-30  
 Sample Preparation: 2015-11-30

Prep Method: N/A  
 Analyzed By: JR  
 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1,4,5	<0.0387	<0.500	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 409172 - Dad-17**

Laboratory: El Paso  
 Analysis: TDS  
 QC Batch: 126755  
 Prep Batch: 107262

Analytical Method: SM 2540C  
 Date Analyzed: 2015-12-03  
 Sample Preparation: 2015-12-02

Prep Method: N/A  
 Analyzed By: MC  
 Prepared By: MC

*continued . . .*

sample 409172 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1550</b>	<b>1550</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409172 - Dad-17**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126825 Date Analyzed: 2015-12-07 Analyzed By: CF  
 Prep Batch: 107332 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409173 - Dad-18**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126790 Date Analyzed: 2015-11-30 Analyzed By: JR  
 Prep Batch: 107300 Sample Preparation: 2015-11-30 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>923</b>	<b>923</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 409173 - Dad-18**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126790 Date Analyzed: 2015-11-30 Analyzed By: JR  
 Prep Batch: 107300 Sample Preparation: 2015-11-30 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>8.19</b>	<b>8.19</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 409173 - Dad-18**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126755 Date Analyzed: 2015-12-03 Analyzed By: MC  
 Prep Batch: 107262 Sample Preparation: 2015-12-02 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2760</b>	<b>2760</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409173 - Dad-18**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126825 Date Analyzed: 2015-12-07 Analyzed By: CF  
 Prep Batch: 107332 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>1.68</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409174 - Dad-19**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126790 Date Analyzed: 2015-11-30 Analyzed By: JR  
 Prep Batch: 107300 Sample Preparation: 2015-11-30 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>1050</b>	<b>1050</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 409174 - Dad-19**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126790 Date Analyzed: 2015-11-30 Analyzed By: JR  
 Prep Batch: 107300 Sample Preparation: 2015-11-30 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>41.2</b>	<b>41.2</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 409174 - Dad-19**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126755 Date Analyzed: 2015-12-03 Analyzed By: MC  
 Prep Batch: 107262 Sample Preparation: 2015-12-02 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>3260</b>	<b>3260</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409174 - Dad-19**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126825 Date Analyzed: 2015-12-07 Analyzed By: CF  
 Prep Batch: 107332 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126755  
Prep Batch: 107262Date Analyzed: 2015-12-03  
QC Preparation: 2015-12-02Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126790  
Prep Batch: 107300Date Analyzed: 2015-11-30  
QC Preparation: 2015-11-30Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126790  
Prep Batch: 107300Date Analyzed: 2015-11-30  
QC Preparation: 2015-11-30Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126825  
Prep Batch: 107332Date Analyzed: 2015-12-07  
QC Preparation: 2015-12-07Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

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# Duplicates

**Duplicate (1)**    Duplicated Sample: 409171

QC Batch: 126755  
 Prep Batch: 107262

Date Analyzed: 2015-12-03  
 QC Preparation: 2015-12-02

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2430	2520	mg/L	50	4	10



Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	5.02	mg/L	1	5.00	<0.0387	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126825  
 Prep Batch: 107332

Date Analyzed: 2015-12-07  
 QC Preparation: 2015-12-07

Analyzed By: CF  
 Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	37.0	mg/L	1	40.0	<1.18	92	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2,3,6,7	36.4	mg/L	1	40.0	<1.18	91	82.8 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 409174

QC Batch: 126825  
 Prep Batch: 107332

Date Analyzed: 2015-12-07  
 QC Preparation: 2015-12-07

Analyzed By: CF  
 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.3	mg/L	1	40.0	<1.18	88	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.8	mg/L	1	40.0	<1.18	90	77.9 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-2)

QC Batch: 126790

Date Analyzed: 2015-11-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.5	102	90 - 110	2015-11-30

### Standard (CCV-2)

QC Batch: 126790

Date Analyzed: 2015-11-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.02	100	90 - 110	2015-11-30

### Standard (CCV-3)

QC Batch: 126790

Date Analyzed: 2015-11-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.6	102	90 - 110	2015-11-30

### Standard (CCV-3)

QC Batch: 126790

Date Analyzed: 2015-11-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	5.03	101	90 - 110	2015-11-30



---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass



# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

6701 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

155 McCutcheon, Ste. H  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

LAB Order ID # 1513007

Company Name: D&H United Fueling Solutions  
Address: (Street, City, Zip)  
1221 Tower Trail Ln, El Paso TX 79907  
Contact Person: Rosalio Guillen  
Phone #: 915-859-8150  
Cell #: 915-859-8150  
Fax #: 915-859-8150  
E-mail: rguillen@dhpump.com

Invoice to (if different from above):

Dona Ana Dairies, PO Box 10, Mesquite, NM 88048

Project #: 481241

Project Name: Linda Armstrong 575-233-3620

Dona Ana Dairies Consortium

Sampler Signature: *[Signature]*

Project Location (including state):

Various Dairies, Dona Ana County, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	TIME
170	Dad-07	1		X					X					11-30-15	9:42
171	Dad-16	1		X					X					11-45	11:45
172	Dad-17	1		X					X					11-14	11:45
173	Dad-18	1		X					X					11-14	11:45
174	Dad-19	1		X					X					10-46	10:46
175	Dad-19	1		X					X					10-48	10:48
176	Dad-19	1		X					X					10-17	10:17
177	Dad-19	1		X					X					10-17	10:17
178	Dad-19	1		X					X					10-17	10:17
179	Dad-19	1		X					X					10-17	10:17
180	Dad-19	1		X					X					10-17	10:17
181	Dad-19	1		X					X					10-17	10:17
182	Dad-19	1		X					X					10-17	10:17
183	Dad-19	1		X					X					10-17	10:17
184	Dad-19	1		X					X					10-17	10:17
185	Dad-19	1		X					X					10-17	10:17
186	Dad-19	1		X					X					10-17	10:17
187	Dad-19	1		X					X					10-17	10:17
188	Dad-19	1		X					X					10-17	10:17
189	Dad-19	1		X					X					10-17	10:17
190	Dad-19	1		X					X					10-17	10:17
191	Dad-19	1		X					X					10-17	10:17
192	Dad-19	1		X					X					10-17	10:17
193	Dad-19	1		X					X					10-17	10:17
194	Dad-19	1		X					X					10-17	10:17
195	Dad-19	1		X					X					10-17	10:17
196	Dad-19	1		X					X					10-17	10:17
197	Dad-19	1		X					X					10-17	10:17
198	Dad-19	1		X					X					10-17	10:17
199	Dad-19	1		X					X					10-17	10:17
200	Dad-19	1		X					X					10-17	10:17

ANALYSIS REQUEST

MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Relinquished By: *[Signature]* Date: 11-30-15 Time: 12:57

Relinquished By: *[Signature]* Date: 11-30-15 Time: 16:30

Received By: *[Signature]* Date: 11-30-15 Time: 12:57

Received at Laboratory By: *[Signature]* Date: 12-15-15 Time: 9:50

Temp 12-3 3-8/3-8  
Headspace Y N/A  
Intact Y / N

Lab Use Only

Remarks: 123 2/3 5/7 5/49367130

TRRP Report Required

Dry Weight Basis Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Linda Armstrong  
 Dona Ana Dairies

Report Date: December 8, 2015

P.O. Box 10  
 Mesquite, NM, 88048

Work Order: 15112424



Project Location: Various Dairies, Dona Ana County, NM  
 Project Name: Dona Ana Dairies Consortium  
 Project #: 481241

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
409012	DAD-10	water	2015-11-24	13:41	2015-11-24
409013	DAD-11	water	2015-11-24	12:26	2015-11-24
409014	DAD-12	water	2015-11-24	11:08	2015-11-24
409015	DAD-13	water	2015-11-24	10:20	2015-11-24
409016	DAD-14	water	2015-11-24	13:01	2015-11-24
409017	DAD-15	water	2015-11-24	09:53	2015-11-24
409018	DAD-20	water	2015-11-24	14:11	2015-11-24

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 26 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

*For inorganic analyses, the term MQL should actually read PQL.*



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Dr. Blair Leftwich, Director  
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## Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2015-11-24 and assigned to work order 15112424. Samples for work order 15112424 were received intact at a temperature of 3.3 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	107166	2015-11-24 at 18:47	126642	2015-11-24 at 18:47
NO3 (IC)	E 300.0	107166	2015-11-24 at 18:47	126642	2015-11-24 at 18:47
TDS	SM 2540C	107223	2015-11-30 at 11:35	126708	2015-12-01 at 07:45
TKN	SM 4500-NH3 B,C	107279	2015-12-03 at 10:10	126769	2015-12-03 at 14:35

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15112424 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

## Sample: 409012 - DAD-10

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126642 Date Analyzed: 2015-11-24 Analyzed By: JR  
 Prep Batch: 107166 Sample Preparation: 2015-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>146</b>	<b>146</b>	<0.0465	mg/L	5	0.0465	2.5	0.0093

## Sample: 409012 - DAD-10

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126642 Date Analyzed: 2015-11-24 Analyzed By: JR  
 Prep Batch: 107166 Sample Preparation: 2015-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J,Je	1,4,5	<b>0.723</b>	<b>0.723</b>	<0.0387	mg/L	1	0.0387	0.5	0.0387

## Sample: 409012 - DAD-10

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126708 Date Analyzed: 2015-12-01 Analyzed By: MC  
 Prep Batch: 107223 Sample Preparation: 2015-11-30 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>1560</b>	<b>1560</b>	<125	mg/L	50	125	2.5	2.5

## Sample: 409012 - DAD-10

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126769 Date Analyzed: 2015-12-03 Analyzed By: CF  
 Prep Batch: 107279 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409013 - DAD-11**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126642                              Date Analyzed: 2015-11-24                      Analyzed By: JR  
 Prep Batch: 107166                              Sample Preparation: 2015-11-24                      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>1320</b>	<b>1320</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 409013 - DAD-11**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 126642                              Date Analyzed: 2015-11-24                              Analyzed By: JR  
 Prep Batch: 107166                              Sample Preparation: 2015-11-24                              Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J,Je	1,4,5	<b>17.1</b>	<b>17.1</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 409013 - DAD-11**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 126708                              Date Analyzed: 2015-12-01                              Analyzed By: MC  
 Prep Batch: 107223                              Sample Preparation: 2015-11-30                              Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>4030</b>	<b>4030</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409013 - DAD-11**

Laboratory: Lubbock  
 Analysis: TKN  
 QC Batch: 126769  
 Prep Batch: 107279

Analytical Method: SM 4500-NH3 B,C  
 Date Analyzed: 2015-12-03  
 Sample Preparation:

Prep Method: N/A  
 Analyzed By: CF  
 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>8.40</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409014 - DAD-12**

Laboratory: El Paso  
 Analysis: Chloride (IC)  
 QC Batch: 126642  
 Prep Batch: 107166

Analytical Method: E 300.0  
 Date Analyzed: 2015-11-24  
 Sample Preparation: 2015-11-24

Prep Method: N/A  
 Analyzed By: JR  
 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>735</b>	<b>735</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 409014 - DAD-12**

Laboratory: El Paso  
 Analysis: NO3 (IC)  
 QC Batch: 126642  
 Prep Batch: 107166

Analytical Method: E 300.0  
 Date Analyzed: 2015-11-24  
 Sample Preparation: 2015-11-24

Prep Method: N/A  
 Analyzed By: JR  
 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J,Je	1,4,5	<b>19.8</b>	<b>19.8</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 409014 - DAD-12**

Laboratory: El Paso  
 Analysis: TDS  
 QC Batch: 126708  
 Prep Batch: 107223

Analytical Method: SM 2540C  
 Date Analyzed: 2015-12-01  
 Sample Preparation: 2015-11-30

Prep Method: N/A  
 Analyzed By: MC  
 Prepared By: MC

*continued . . .*

sample 409014 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2860</b>	<b>2860</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409014 - DAD-12**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126769 Date Analyzed: 2015-12-03 Analyzed By: CF  
 Prep Batch: 107279 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409015 - DAD-13**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126642 Date Analyzed: 2015-11-24 Analyzed By: JR  
 Prep Batch: 107166 Sample Preparation: 2015-11-24 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>642</b>	<b>642</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409015 - DAD-13**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126642 Date Analyzed: 2015-11-24 Analyzed By: JR  
 Prep Batch: 107166 Sample Preparation: 2015-11-24 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J,Je	1,4,5	<b>9.98</b>	<b>9.98</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 409015 - DAD-13**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126708 Date Analyzed: 2015-12-01 Analyzed By: MC  
 Prep Batch: 107223 Sample Preparation: 2015-11-30 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2280</b>	<b>2280</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409015 - DAD-13**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126769 Date Analyzed: 2015-12-03 Analyzed By: CF  
 Prep Batch: 107279 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409016 - DAD-14**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126642 Date Analyzed: 2015-11-24 Analyzed By: JR  
 Prep Batch: 107166 Sample Preparation: 2015-11-24 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>1220</b>	<b>1220</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 409016 - DAD-14**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126642 Date Analyzed: 2015-11-24 Analyzed By: JR  
 Prep Batch: 107166 Sample Preparation: 2015-11-24 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J,Je	1,4,5	<b>33.9</b>	<b>33.9</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 409016 - DAD-14**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126708 Date Analyzed: 2015-12-01 Analyzed By: MC  
 Prep Batch: 107223 Sample Preparation: 2015-11-30 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>3550</b>	<b>3550</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409016 - DAD-14**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126769 Date Analyzed: 2015-12-03 Analyzed By: CF  
 Prep Batch: 107279 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409017 - DAD-15**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126642 Date Analyzed: 2015-11-24 Analyzed By: JR  
 Prep Batch: 107166 Sample Preparation: 2015-11-24 Prepared By: JR

*continued ...*

sample 409017 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>538</b>	<b>538</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409017 - DAD-15**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126642 Date Analyzed: 2015-11-24 Analyzed By: JR  
 Prep Batch: 107166 Sample Preparation: 2015-11-24 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J,Je	1,4,5	<b>5.06</b>	<b>5.06</b>	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 409017 - DAD-15**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126708 Date Analyzed: 2015-12-01 Analyzed By: MC  
 Prep Batch: 107223 Sample Preparation: 2015-11-30 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1720</b>	<b>1720</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409017 - DAD-15**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126769 Date Analyzed: 2015-12-03 Analyzed By: CF  
 Prep Batch: 107279 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18



**Sample: 409018 - DAD-20**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126642 Date Analyzed: 2015-11-24 Analyzed By: JR  
 Prep Batch: 107166 Sample Preparation: 2015-11-24 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>810</b>	<b>810</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409018 - DAD-20**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126642 Date Analyzed: 2015-11-24 Analyzed By: JR  
 Prep Batch: 107166 Sample Preparation: 2015-11-24 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J,Je	1,4,5	<b>21.8</b>	<b>21.8</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 409018 - DAD-20**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126708 Date Analyzed: 2015-12-01 Analyzed By: MC  
 Prep Batch: 107223 Sample Preparation: 2015-11-30 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2350</b>	<b>2350</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409018 - DAD-20**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126769 Date Analyzed: 2015-12-03 Analyzed By: CF  
 Prep Batch: 107279 Sample Preparation: Prepared By: CF

*continued . . .*

*sample 409018 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126642  
Prep Batch: 107166Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-24Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126642  
Prep Batch: 107166Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-24Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N	J,Je	1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126708  
Prep Batch: 107223Date Analyzed: 2015-12-01  
QC Preparation: 2015-11-30Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126769  
Prep Batch: 107279Date Analyzed: 2015-12-03  
QC Preparation: 2015-12-03Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

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# Duplicates

**Duplicate (1)**    Duplicated Sample: 408933

QC Batch: 126708  
 Prep Batch: 107223

Date Analyzed: 2015-12-01  
 QC Preparation: 2015-11-30

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2440	2460	mg/L	50	1	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126642  
Prep Batch: 107166Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-24Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	25.1	mg/L	1	25.0	<0.00930	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.8	mg/L	1	25.0	<0.00930	99	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126642  
Prep Batch: 107166Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-24Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.96	mg/L	1	5.00	<0.0387	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.98	mg/L	1	5.00	<0.0387	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126708  
Prep Batch: 107223Date Analyzed: 2015-12-01  
QC Preparation: 2015-11-30Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	999	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	999	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126769  
 Prep Batch: 107279

Date Analyzed: 2015-12-03  
 QC Preparation: 2015-12-03

Analyzed By: CF  
 Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.8	mg/L	1	40.0	<1.18	90	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	36.4	mg/L	1	40.0	<1.18	91	82.8 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



## Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 409017QC Batch: 126642  
Prep Batch: 107166Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-24Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1100	mg/L	22.2	555	538	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1,4,5	1110	mg/L	22.2	555	538	103	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 409017QC Batch: 126642  
Prep Batch: 107166Date Analyzed: 2015-11-24  
QC Preparation: 2015-11-24Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	117	mg/L	22.2	111	5.06	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	117	mg/L	22.2	111	5.06	101	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 409018QC Batch: 126769  
Prep Batch: 107279Date Analyzed: 2015-12-03  
QC Preparation: 2015-12-03Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	35.3	mg/L	1	40.0	<1.18	88	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	36.4	mg/L	1	40.0	<1.18	91	77.9 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.





Report Date: December 8, 2015

Work Order: 15112424  
Dona Ana Dairies Consortium

Page Number: 23 of 26  
Various Dairies, Dona Ana County, NM

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-12-03

---

**Standard (CCV-1)**

QC Batch: 126769

Date Analyzed: 2015-12-03

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-12-03

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## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL



## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





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(BioAquatic) 2501 Mayes Rd., Suite 100      Carrollton, Texas 75006      972-242-7750  
E-Mail: lab@traceanalysis.com      WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Isaac Dominguez  
Dominguez Dairy #2  
13600 Stern Drive  
P. O. Box 21  
Mesquite, NM, 88048

Report Date: December 10, 2015

Work Order: 15120121



Project Location: 13600 Stern Drive, Mesquite, NM  
Project Name: Dominguez Dairy #2 481196  
Project #: 481196

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
409230	42-02	water	2015-12-01	09:19	2015-12-01
409231	42-03	water	2015-12-01	10:50	2015-12-01
409232	42-06	water	2015-12-01	09:45	2015-12-01
409233	42-10	water	2015-12-01	12:41	2015-12-01
409234	42-11	water	2015-12-01	11:39	2015-12-01
409235	42-12	water	2015-12-01	12:10	2015-12-01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

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Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Dominguez Dairy #2 481196 were received by TraceAnalysis, Inc. on 2015-12-01 and assigned to work order 15120121. Samples for work order 15120121 were received intact at a temperature of 2.9 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	107309	2015-12-02 at 13:30	126799	2015-12-02 at 13:30
NO3 (IC)	E 300.0	107309	2015-12-02 at 13:30	126799	2015-12-02 at 13:30
TDS	SM 2540C	107262	2015-12-02 at 13:18	126755	2015-12-03 at 08:05
TDS	SM 2540C	107310	2015-12-03 at 14:31	126800	2015-12-04 at 07:55
TKN	SM 4500-NH3 B,C	107392	2015-12-10 at 10:00	126896	2015-12-10 at 14:00

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15120121 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

**Sample: 409230 - 42-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>510</b>	<b>510</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409230 - 42-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>7.55</b>	<b>7.55</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 409230 - 42-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126755 Date Analyzed: 2015-12-03 Analyzed By: MC  
 Prep Batch: 107262 Sample Preparation: 2015-12-02 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2420</b>	<b>2420</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409230 - 42-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126896 Date Analyzed: 2015-12-10 Analyzed By: CF  
 Prep Batch: 107392 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409231 - 42-03**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126799                              Date Analyzed: 2015-12-02                      Analyzed By: JR  
 Prep Batch: 107309                              Sample Preparation: 2015-12-02                      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>933</b>	<b>933</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 409231 - 42-03**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 126799                              Date Analyzed: 2015-12-02                              Analyzed By: JR  
 Prep Batch: 107309                              Sample Preparation: 2015-12-02                              Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>97.9</b>	<b>97.9</b>	<1.94	mg/L	50	1.94	0.5	0.0387

**Sample: 409231 - 42-03**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 126755                              Date Analyzed: 2015-12-03                              Analyzed By: MC  
 Prep Batch: 107262                              Sample Preparation: 2015-12-02                              Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>3380</b>	<b>3380</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409231 - 42-03**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126896 Date Analyzed: 2015-12-10 Analyzed By: CF  
 Prep Batch: 107392 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409232 - 42-06**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>358</b>	<b>358</b>	<0.0930	mg/L	10	0.0930	2.5	0.0093

**Sample: 409232 - 42-06**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>84.5</b>	<b>84.5</b>	<0.387	mg/L	10	0.387	0.5	0.0387

**Sample: 409232 - 42-06**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126755 Date Analyzed: 2015-12-03 Analyzed By: MC  
 Prep Batch: 107262 Sample Preparation: 2015-12-02 Prepared By: MC

*continued . . .*

sample 409232 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>2220</b>	<b>2220</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409232 - 42-06**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126896 Date Analyzed: 2015-12-10 Analyzed By: CF  
 Prep Batch: 107392 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409233 - 42-10**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>439</b>	<b>439</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409233 - 42-10**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J,Je	1,4,5	<b>0.165</b>	<0.500	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 409233 - 42-10**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126755 Date Analyzed: 2015-12-03 Analyzed By: MC  
 Prep Batch: 107262 Sample Preparation: 2015-12-02 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1300</b>	<b>1300</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409233 - 42-10**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126896 Date Analyzed: 2015-12-10 Analyzed By: CF  
 Prep Batch: 107392 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409234 - 42-11**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>303</b>	<b>303</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409234 - 42-11**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>1.16</b>	<b>1.16</b>	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 409234 - 42-11**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126800 Date Analyzed: 2015-12-04 Analyzed By: MC  
 Prep Batch: 107310 Sample Preparation: 2015-12-03 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>1160</b>	<b>1160</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409234 - 42-11**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126896 Date Analyzed: 2015-12-10 Analyzed By: CF  
 Prep Batch: 107392 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409235 - 42-12**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

*continued ...*

sample 409235 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>341</b>	<b>341</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409235 - 42-12**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>0.917</b>	<b>0.917</b>	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 409235 - 42-12**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126800 Date Analyzed: 2015-12-04 Analyzed By: MC  
 Prep Batch: 107310 Sample Preparation: 2015-12-03 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1140</b>	<b>1140</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409235 - 42-12**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126896 Date Analyzed: 2015-12-10 Analyzed By: CF  
 Prep Batch: 107392 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		U 2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18



## Method Blanks

### Method Blank (1)

QC Batch: 126755  
Prep Batch: 107262Date Analyzed: 2015-12-03  
QC Preparation: 2015-12-02Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126799  
Prep Batch: 107309Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126799  
Prep Batch: 107309Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126800  
Prep Batch: 107310Date Analyzed: 2015-12-04  
QC Preparation: 2015-12-03Analyzed By: MC  
Prepared By: MC

Report Date: December 10, 2015

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---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

---

**Method Blank (1)**

QC Batch: 126896  
Prep Batch: 107392

Date Analyzed: 2015-12-10  
QC Preparation: 2015-12-10

Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

---

---

## Duplicates

**Duplicate (1)** Duplicated Sample: 409171QC Batch: 126755  
Prep Batch: 107262Date Analyzed: 2015-12-03  
QC Preparation: 2015-12-02Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2430	2520	mg/L	50	4	10

**Duplicate (1)** Duplicated Sample: 409330QC Batch: 126800  
Prep Batch: 107310Date Analyzed: 2015-12-04  
QC Preparation: 2015-12-03Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	1320	1330	mg/L	50	1	10





# Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 409231QC Batch: 126799  
Prep Batch: 107309Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	2410	mg/L	55.6	1390	933	106	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1,4,5	2400	mg/L	55.6	1390	933	106	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 409231QC Batch: 126799  
Prep Batch: 107309Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	384	mg/L	55.6	278	97.9	103	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	381	mg/L	55.6	278	97.9	102	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 409326QC Batch: 126896  
Prep Batch: 107392Date Analyzed: 2015-12-10  
QC Preparation: 2015-12-10Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	37.0	mg/L	1	40.0	2.24	87	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	36.4	mg/L	1	40.0	2.24	85	77.9 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



## Calibration Standards

### Standard (CCV-1)

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.4	98	90 - 110	2015-12-02

### Standard (CCV-1)

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.81	96	90 - 110	2015-12-02

### Standard (CCV-2)

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.9	100	90 - 110	2015-12-02

### Standard (CCV-2)

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.90	98	90 - 110	2015-12-02

**Standard (CCV-3)**

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.1	100	90 - 110	2015-12-02

**Standard (CCV-3)**

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.95	99	90 - 110	2015-12-02

**Standard (CCV-4)**

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.3	101	90 - 110	2015-12-02

**Standard (CCV-4)**

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.98	100	90 - 110	2015-12-02

**Standard (ICV-1)**

QC Batch: 126896

Date Analyzed: 2015-12-10

Analyzed By: CF

Report Date: December 10, 2015

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13600 Stern Drive, Mesquite, NM

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2015-12-10

---

**Standard (CCV-1)**

QC Batch: 126896

Date Analyzed: 2015-12-10

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-12-10

---

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

---

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

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## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.







6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Fernie Franco  
 Buena Vista Dairy #2  
 16910 Stern Drive  
 P.O. Box 346  
 Mesquite, NM, 88048

Report Date: December 10, 2015

Work Order: 15120122



Project Location: 16910 Stern Drive, Mesquite NM  
 Project Name: Buena Vista Dairy #2

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
409236	lagoon	water	2015-12-01	08:25	2015-12-01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

*Blair Leftwich*

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Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2015-12-01 and assigned to work order 15120122. Samples for work order 15120122 were received intact at a temperature of 2.9 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	107309	2015-12-02 at 13:30	126799	2015-12-02 at 13:30
NO3 (IC)	E 300.0	107309	2015-12-02 at 13:30	126799	2015-12-02 at 13:30
TDS	SM 2540C	107310	2015-12-03 at 14:31	126800	2015-12-04 at 07:55
TKN	SM 4500-NH3 B,C	107392	2015-12-10 at 10:00	126896	2015-12-10 at 14:00

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15120122 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 409236 - lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>524</b>	<b>524</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 409236 - lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126799 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107309 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1,4,5	<0.194	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 409236 - lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126800 Date Analyzed: 2015-12-04 Analyzed By: MC  
 Prep Batch: 107310 Sample Preparation: 2015-12-03 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>4740</b>	<b>4740</b>	<500	mg/L	200	500	2.5	2.5

**Sample: 409236 - lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126896 Date Analyzed: 2015-12-10 Analyzed By: CF  
 Prep Batch: 107392 Sample Preparation: Prepared By: CF

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Total Kjeldahl Nitrogen - N		2,3,6,7	<b>190</b>	<b>190</b>	<2.36	mg/L	2	2.36	10	1.18

---

## Method Blanks

### Method Blank (1)

QC Batch: 126799  
Prep Batch: 107309Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126799  
Prep Batch: 107309Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126800  
Prep Batch: 107310Date Analyzed: 2015-12-04  
QC Preparation: 2015-12-03Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126896  
Prep Batch: 107392Date Analyzed: 2015-12-10  
QC Preparation: 2015-12-10Analyzed By: CF  
Prepared By: CF



Report Date: December 10, 2015

Work Order: 15120122  
Buena Vista Dairy #2

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 409330

QC Batch: 126800  
 Prep Batch: 107310

Date Analyzed: 2015-12-04  
 QC Preparation: 2015-12-03

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	1320	1330	mg/L	50	1	10



Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	998	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126896  
Prep Batch: 107392

Date Analyzed: 2015-12-10  
QC Preparation: 2015-12-10

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	34.7	mg/L	1	40.0	<1.18	87	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	36.4	mg/L	1	40.0	<1.18	91	82.8 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spikes

**Matrix Spike (MS-1)** Spiked Sample: 409231QC Batch: 126799  
Prep Batch: 107309Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	2410	mg/L	55.6	1390	933	106	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1,4,5	2400	mg/L	55.6	1390	933	106	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 409231QC Batch: 126799  
Prep Batch: 107309Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	384	mg/L	55.6	278	97.9	103	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	381	mg/L	55.6	278	97.9	102	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 409326QC Batch: 126896  
Prep Batch: 107392Date Analyzed: 2015-12-10  
QC Preparation: 2015-12-10Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	37.0	mg/L	1	40.0	2.24	87	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	36.4	mg/L	1	40.0	2.24	85	77.9 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (CCV-2)

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.9	100	90 - 110	2015-12-02

### Standard (CCV-2)

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.90	98	90 - 110	2015-12-02

### Standard (CCV-3)

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.1	100	90 - 110	2015-12-02

### Standard (CCV-3)

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.95	99	90 - 110	2015-12-02



**Standard (CCV-4)**

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.3	101	90 - 110	2015-12-02

**Standard (CCV-4)**

QC Batch: 126799

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.98	100	90 - 110	2015-12-02

**Standard (ICV-1)**

QC Batch: 126896

Date Analyzed: 2015-12-10

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2015-12-10

**Standard (CCV-1)**

QC Batch: 126896

Date Analyzed: 2015-12-10

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-12-10

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

---

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
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 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

(Corrected Report)

Linda Armstrong  
Organ Dairy LLC

Report Date: December 16, 2015

P.O. Box 340  
Arrey, NM, 87930

Work Order: 15110920



Project Location: 12560 Stern Drive , Mesquite, NM  
 Project Name: Organ Dairy  
 Project Number: 481236

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
407841	126-04	Water	2015-11-09	12:17	2015-11-09
407842	126-05	Water	2015-11-09	11:09	2015-11-09
407843	126-07	Water	2015-11-09	10:20	2015-11-09
407844	126-09	Water	2015-11-09	09:15	2015-11-09
407845	126-12	Water	2015-11-09	11:56	2015-11-09
407846	126-13	Water	2015-11-09	10:05	2015-11-09

## Notes

- **Work Order 15110920:** Per customer request- "Scratch off the Lagoon - Will resample" MRC 11/09/2015

## Report Corrections (Work Order 15110920)

- 12/16/15: Reissued report due to sample labeling error on samples 407843 and 407844.

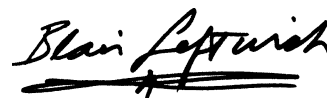
These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 27 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

A handwritten signature in black ink that reads "Blair Leftwich". The signature is written in a cursive style and is positioned above a horizontal line.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager



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## Case Narrative

Samples for project Organ Dairy were received by TraceAnalysis, Inc. on 2015-11-09 and assigned to work order 15110920. Samples for work order 15110920 were received intact at a temperature of 1.4 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	106813	2015-11-09 at 19:12	126240	2015-11-09 at 19:12
Chloride (IC)	E 300.0	106864	2015-11-11 at 14:30	126292	2015-11-11 at 15:19
NO3 (IC)	E 300.0	106813	2015-11-09 at 19:12	126240	2015-11-09 at 19:12
NO3 (IC)	E 300.0	106864	2015-11-11 at 14:30	126292	2015-11-11 at 15:19
TDS	SM 2540C	106818	2015-11-10 at 13:40	126244	2015-11-11 at 07:30
TDS	SM 2540C	106909	2015-11-13 at 15:03	126339	2015-11-13 at 16:44
TKN	SM 4500-NH3 B,C	106878	2015-11-12 at 10:00	126306	2015-11-12 at 14:00

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15110920 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 407841 - 126-04

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
 Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>612</b>	<b>612</b>	<0.186	mg/L	20	0.186	2.5	0.0093

## Sample: 407841 - 126-04

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
 Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>19.2</b>	<b>19.2</b>	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 407841 - 126-04

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126244 Date Analyzed: 2015-11-11 Analyzed By: MC  
 Prep Batch: 106818 Sample Preparation: 2015-11-10 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	<b>2460</b>	<b>2460</b>	<125	mg/L	50	125	2.5	2.5

## Sample: 407841 - 126-04

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
 Prep Batch: 106878 Sample Preparation: Prepared By: CF

Report Date: December 16, 2015  
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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 407842 - 126-05**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126240                              Date Analyzed: 2015-11-09                      Analyzed By: JR  
 Prep Batch: 106813                              Sample Preparation: 2015-11-09                      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>643</b>	<b>643</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 407842 - 126-05**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 126240                              Date Analyzed: 2015-11-09                              Analyzed By: JR  
 Prep Batch: 106813                              Sample Preparation: 2015-11-09                              Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>20.2</b>	<b>20.2</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 407842 - 126-05**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 126244                              Date Analyzed: 2015-11-11                              Analyzed By: MC  
 Prep Batch: 106818                              Sample Preparation: 2015-11-10                              Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	<b>2980</b>	<b>2980</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 407842 - 126-05**

Report Date: December 16, 2015  
481236

Work Order: 15110920  
Organ Dairy

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Laboratory: Lubbock  
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
Prep Batch: 106878 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 407843 - 126-07**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	<b>571</b>	<b>571</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 407843 - 126-07**

Laboratory: El Paso  
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>26.5</b>	<b>26.5</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 407843 - 126-07**

Laboratory: El Paso  
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
QC Batch: 126244 Date Analyzed: 2015-11-11 Analyzed By: MC  
Prep Batch: 106818 Sample Preparation: 2015-11-10 Prepared By: MC

*continued . . .*

sample 407843 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>2380</b>	<b>2380</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 407843 - 126-07**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
 Prep Batch: 106878 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,8	<b>6.16</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 407844 - 126-09**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
 Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	<b>879</b>	<b>879</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 407844 - 126-09**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
 Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR



Report Date: December 16, 2015  
481236

Work Order: 15110920  
Organ Dairy

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1,4,6	<b>1.47</b>	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 407844 - 126-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126244 Date Analyzed: 2015-11-11 Analyzed By: MC  
 Prep Batch: 106818 Sample Preparation: 2015-11-10 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	<b>2860</b>	<b>2860</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 407844 - 126-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
 Prep Batch: 106878 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,8	<b>6.16</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 407845 - 126-12**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
 Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	<b>428</b>	<b>428</b>	<0.0930	mg/L	10	0.0930	2.5	0.0093

**Sample: 407845 - 126-12**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
 Prep Batch: 106813 Sample Preparation: 2015-11-09 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	<b>10.8</b>	<b>10.8</b>	<0.194	mg/L	5	0.194	0.5	0.0387

**Sample: 407845 - 126-12**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126244 Date Analyzed: 2015-11-11 Analyzed By: MC  
 Prep Batch: 106818 Sample Preparation: 2015-11-10 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	<b>2460</b>	<b>2460</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 407845 - 126-12**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
 Prep Batch: 106878 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,8	<b>8.96</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 407846 - 126-13**

Laboratory: Lubbock  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126292 Date Analyzed: 2015-11-11 Analyzed By: RL  
 Prep Batch: 106864 Sample Preparation: Prepared By: RL

*continued ...*

sample 407846 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		2,3,5,7,8	<b>760</b>	<b>760</b>	<32.3	mg/L	100	32.3	2.5	0.323

**Sample: 407846 - 126-13**

Laboratory: Lubbock  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126292 Date Analyzed: 2015-11-11 Analyzed By: RL  
 Prep Batch: 106864 Sample Preparation: Prepared By: RL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		2,3,5,7,8	<b>29.6</b>	<b>29.6</b>	<0.0356	mg/L	5	0.0356	0.04	0.00712

**Sample: 407846 - 126-13**

Laboratory: Lubbock  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126339 Date Analyzed: 2015-11-13 Analyzed By: LQ  
 Prep Batch: 106909 Sample Preparation: Prepared By: LQ

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		2,3,5,7,8	<b>2850</b>	<b>2850</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 407846 - 126-13**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
 Prep Batch: 106878 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126240  
Prep Batch: 106813

Date Analyzed: 2015-11-09  
QC Preparation: 2015-11-09

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126240  
Prep Batch: 106813

Date Analyzed: 2015-11-09  
QC Preparation: 2015-11-09

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126244  
Prep Batch: 106818

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-10

Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 126292  
Prep Batch: 106864

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-11

Analyzed By: RL  
Prepared By: RL

Parameter	F	C	Result	Units	Reporting Limits
Chloride		2,3,5,7,8	<0.323	mg/L	0.323

**Method Blank (1)**

QC Batch: 126292  
Prep Batch: 106864

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-11

Analyzed By: RL  
Prepared By: RL

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		2,3,5,7,8	<0.00712	mg/L	0.00712

**Method Blank (1)**

QC Batch: 126306  
Prep Batch: 106878

Date Analyzed: 2015-11-12  
QC Preparation: 2015-11-12

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.18	mg/L	1.18

**Method Blank (1)**

QC Batch: 126339  
Prep Batch: 106909

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13

Analyzed By: LQ  
Prepared By: LQ

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		2,3,5,7,8	<25.0	mg/L	2.5

# Duplicates

## Duplicate (1) Duplicated Sample: 407845

QC Batch: 126244  
Prep Batch: 106818

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-10

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2390	2460	mg/L	50	3	10

## Duplicate (1) Duplicated Sample: 408318

QC Batch: 126339  
Prep Batch: 106909

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13

Analyzed By: LQ  
Prepared By: LQ

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		2,3,5,7,8	626	608	mg/L	20	3	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126240  
Prep Batch: 106813

Date Analyzed: 2015-11-09  
QC Preparation: 2015-11-09

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.0	mg/L	1	25.0	<0.00930	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.0	mg/L	1	25.0	<0.00930	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126240  
Prep Batch: 106813

Date Analyzed: 2015-11-09  
QC Preparation: 2015-11-09

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.93	mg/L	1	5.00	<0.0387	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.94	mg/L	1	5.00	<0.0387	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126244  
Prep Batch: 106818

Date Analyzed: 2015-11-11  
QC Preparation: 2015-11-10

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	998	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.





Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	35.8	mg/L	1	40.0	<1.18	90	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	35.8	mg/L	1	40.0	<1.18	90	82.8 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126339  
Prep Batch: 106909

Date Analyzed: 2015-11-13  
QC Preparation: 2015-11-13

Analyzed By: LQ  
Prepared By: LQ

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		2,3,5,7,8	1000	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		2,3,5,7,8	1010	mg/L	10	1000	<25.0	101	90 - 110	1	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

## Matrix Spike (MS-1) Spiked Sample: 407844

QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
Prep Batch: 106813 QC Preparation: 2015-11-09 Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1,4,6	2300	mg/L	55.6	1390	879	102	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1,4,6	2300	mg/L	55.6	1390	879	102	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (MS-1) Spiked Sample: 407844

QC Batch: 126240 Date Analyzed: 2015-11-09 Analyzed By: JR  
Prep Batch: 106813 QC Preparation: 2015-11-09 Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1,4,6	277	mg/L	55.6	278	1.47	99	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1,4,6	278	mg/L	55.6	278	1.47	99	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (MS-1) Spiked Sample: 407846

QC Batch: 126292 Date Analyzed: 2015-11-11 Analyzed By: RL  
Prep Batch: 106864 QC Preparation: 2015-11-11 Prepared By: RL

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		2,3,5,7,8	3260	mg/L	100	2500	760	100	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix		Rec. Limit	RPD	RPD Limit
			Result	Units			Result	Rec.			
Chloride		2,3,5,7,8	3330	mg/L	100	2500	760	103	80 - 120	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 407846

QC Batch: 126292 Date Analyzed: 2015-11-11 Analyzed By: RL  
Prep Batch: 106864 QC Preparation: 2015-11-11 Prepared By: RL

Param	F	C	MS		Dil.	Spike Amount	Matrix		Rec. Limit
			Result	Units			Result	Rec.	
Nitrate-N		2,3,5,7,8	530	mg/L	100	500	28.2	100	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix		Rec. Limit	RPD	RPD Limit
			Result	Units			Result	Rec.			
Nitrate-N		2,3,5,7,8	545	mg/L	100	500	28.2	103	80 - 120	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 407915

QC Batch: 126306 Date Analyzed: 2015-11-12 Analyzed By: CF  
Prep Batch: 106878 QC Preparation: 2015-11-12 Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix		Rec. Limit
			Result	Units			Result	Rec.	
Total Kjeldahl Nitrogen - N		2,3,7,8	37.5	mg/L	1	40.0	2.24	88	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix		Rec. Limit	RPD	RPD Limit
			Result	Units			Result	Rec.			
Total Kjeldahl Nitrogen - N		2,3,7,8	38.1	mg/L	1	40.0	2.24	90	77.9 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Calibration Standards

## Standard (CCV-2)

QC Batch: 126240

Date Analyzed: 2015-11-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.3	101	90 - 110	2015-11-09

## Standard (CCV-2)

QC Batch: 126240

Date Analyzed: 2015-11-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.99	100	90 - 110	2015-11-09

## Standard (CCV-3)

QC Batch: 126240

Date Analyzed: 2015-11-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.3	101	90 - 110	2015-11-09

## Standard (CCV-3)

QC Batch: 126240

Date Analyzed: 2015-11-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	5.00	100	90 - 110	2015-11-09



Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		2,3,5,7,8	mg/L	25.0	25.3	101	90 - 110	2015-11-11

**Standard (CCV-1)**

QC Batch: 126292

Date Analyzed: 2015-11-11

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		2,3,5,7,8	mg/L	5.00	5.11	102	90 - 110	2015-11-11

**Standard (CCV-2)**

QC Batch: 126292

Date Analyzed: 2015-11-11

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		2,3,5,7,8	mg/L	25.0	25.1	100	90 - 110	2015-11-11

**Standard (CCV-2)**

QC Batch: 126292

Date Analyzed: 2015-11-11

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		2,3,5,7,8	mg/L	5.00	5.04	101	90 - 110	2015-11-11

**Standard (ICV-1)**

QC Batch: 126306

Date Analyzed: 2015-11-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2015-11-12



Report Date: December 16, 2015  
481236

Work Order: 15110920  
Organ Dairy

Page Number: 24 of 27  
12560 Stern Drive , Mesquite, NM

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**Standard (CCV-1)**

QC Batch: 126306

Date Analyzed: 2015-11-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.76	95	85 - 115	2015-11-12

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## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.400	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0400	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

---

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-15-6	El Paso
7	NELAP	T104704219-15-11	Lubbock
8		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

---

F Description

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U The analyte is not detected above the SDL

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## Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

155 McCutcheon, Ste. H, El Paso, TX 79932  
 Tel (915) 585-3443 Fax (915) 585-4944  
**TraceAnalysis, Inc.**  
 Phone #: 915-859-8150 Cell #:   
 Fax #:   
 E-mail: vayala@dhpump.com  
 D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: Victor Ayala  
 Invoiced to (if different from above):  
 Organ Dairy (Former Del Norte), P.O. Box 130, Mesilla Park, NM 871  
 Linda Armstrong 575-233-3620  
 Project #: 481236  
 Project Name: Organ Dairy  
 Sampler Signature: JWS

LAB #	LAB USE ONLY	Field Code	# Containers	Volume/Amount	MATRIX	PRESERVATIVE METHOD					DATE	SAMPLING TIME		
					WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE
841-1		126-04	1	1	X				X	X	X	X	X	
842-1		126-05	1	1	X				X	X	X	X	X	
843-1		126-07	1	1	X				X	X	X	X	X	
844-1		126-09	1	1	X				X	X	X	X	X	
845-1		126-12	1	1	X				X	X	X	X	X	
846-1		126-13	1	1	X				X	X	X	X	X	

ANALYSIS REQUEST	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1 / TX1005	TX 1005 Extended (C35)	PAH 8270C	PAH 8270 (Low Level Analysis)	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	Nitrates EPA 300	Total Kjeldahl Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD	Phosphorus SM 4500	Turn Around Time	Hold
								X	X	X	X	X		

Relinquished By: JWS Date: 11-9-15 Time: 14:10  
 Relinquished By: JWS Date: 11-9-15 Time: 14:30  
 Received By: MILL TAYLOR Date: 11-9-15 Time: 14:10  
 Received at Laboratory By: MILL TAYLOR Date: 11-9-15 Time: 14:10  
 Lab Use Only  
 Intact Y / N  
 Headspace Y / N  
 Temp 2.1 / 1.4  
 Log-in Review DDH  
 Remarks: Carbonyl In 14  
on Job  
Per Customer - Scratch of C  
Lagoon. Will re-sample  
 Dry Weight Basis Required  
 TRRP Report Required



6701 Aberdeen Avenue, Suite 9      Lubbock, Texas 79424      800-378-1296      806-794-1296      FAX 806-794-1298  
 200 East Sunset Road, Suite E      El Paso, Texas 79922      915-585-3443      FAX 915-585-4944  
 5002 Basin Street, Suite A1      Midland, Texas 79703      432-689-6301      FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100      Carrollton, Texas 75006      972-242-7750  
 E-Mail: lab@traceanalysis.com      WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Jerry Settles  
 Del Oro Dairy, LLC.  
 1025 East O'Hara  
 P.O. Box 1846  
 Anthony, NM, 88021

Report Date: December 14, 2015

Work Order: 15120239



Project Location: 1025 East O'Hara, Anthony, NM  
 Project Name: Del Oro Dairy  
 Project Number: 481237

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
409324	Lagoon	Water	2015-12-02	10:01	2015-12-02
409325	692-01	Water	2015-12-02	12:42	2015-12-02
409326	692-02	Water	2015-12-02	12:06	2015-12-02
409327	692-05	Water	2015-12-02	11:02	2015-12-02
409328	692-06	Water	2015-12-02	10:31	2015-12-02
409329	692-07	Water	2015-12-02	08:59	2015-12-02
409330	692-08	Water	2015-12-02	09:33	2015-12-02
409331	692-09	Water	2015-12-02	11:33	2015-12-02

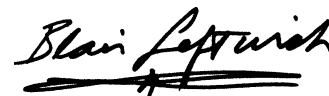
These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 30 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

A handwritten signature in black ink that reads "Blair Leftwich". The signature is written in a cursive style and is underlined with a thick, dark line.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2015-12-02 and assigned to work order 15120239. Samples for work order 15120239 were received intact at a temperature of 3.1 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	107315	2015-12-02 at 20:56	126804	2015-12-02 at 20:56
NO3 (IC)	E 300.0	107315	2015-12-02 at 20:56	126804	2015-12-02 at 20:56
TDS	SM 2540C	107310	2015-12-03 at 14:31	126800	2015-12-04 at 07:55
TDS	SM 2540C	107356	2015-12-08 at 13:40	126858	2015-12-09 at 07:35
TKN	SM 4500-NH3 B,C	107392	2015-12-10 at 10:00	126896	2015-12-10 at 14:00
TKN	SM 4500-NH3 B,C	107393	2015-12-10 at 10:00	126897	2015-12-10 at 14:00
TKN	SM 4500-NH3 B,C	107418	2015-12-11 at 09:50	126926	2015-12-11 at 14:00

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15120239 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

## Sample: 409324 - Lagoon

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>1130</b>	<b>1130</b>	<0.465	mg/L	50	0.465	2.5	0.0093

## Sample: 409324 - Lagoon

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,5	<b>2.33</b>	<2.50	<0.194	mg/L	5	0.194	0.5	0.0387

## Sample: 409324 - Lagoon

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126800 Date Analyzed: 2015-12-04 Analyzed By: MC  
 Prep Batch: 107310 Sample Preparation: 2015-12-03 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>7900</b>	<b>7900</b>	<500	mg/L	200	500	2.5	2.5

## Sample: 409324 - Lagoon

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126896 Date Analyzed: 2015-12-10 Analyzed By: CF  
 Prep Batch: 107392 Sample Preparation: Prepared By: CF

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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	<b>446</b>	<b>446</b>	<2.36	mg/L	2	2.36	10	1.18

**Sample: 409325 - 692-01**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 126804      Date Analyzed: 2015-12-02      Analyzed By: JR  
 Prep Batch: 107315      Sample Preparation: 2015-12-02      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>579</b>	<b>579</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409325 - 692-01**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 126804      Date Analyzed: 2015-12-02      Analyzed By: JR  
 Prep Batch: 107315      Sample Preparation: 2015-12-02      Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>78.4</b>	<b>78.4</b>	<0.387	mg/L	10	0.387	0.5	0.0387

**Sample: 409325 - 692-01**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 126800      Date Analyzed: 2015-12-04      Analyzed By: MC  
 Prep Batch: 107310      Sample Preparation: 2015-12-03      Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>2420</b>	<b>2420</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409325 - 692-01**

Report Date: December 14, 2015  
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Work Order: 15120239  
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Laboratory: Lubbock  
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
QC Batch: 126896 Date Analyzed: 2015-12-10 Analyzed By: CF  
Prep Batch: 107392 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409326 - 692-02**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	<b>967</b>	<b>967</b>	<0.465	mg/L	50	0.465	2.5	0.0093

**Sample: 409326 - 692-02**

Laboratory: El Paso  
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>134</b>	<b>134</b>	<1.94	mg/L	50	1.94	0.5	0.0387

**Sample: 409326 - 692-02**

Laboratory: El Paso  
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
QC Batch: 126800 Date Analyzed: 2015-12-04 Analyzed By: MC  
Prep Batch: 107310 Sample Preparation: 2015-12-03 Prepared By: MC

*continued . . .*

sample 409326 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>3500</b>	<b>3500</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409326 - 692-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126896 Date Analyzed: 2015-12-10 Analyzed By: CF  
 Prep Batch: 107392 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	<b>2.24</b>	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409327 - 692-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>457</b>	<b>457</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409327 - 692-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>5.68</b>	<b>5.68</b>	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 409327 - 692-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126800 Date Analyzed: 2015-12-04 Analyzed By: MC  
 Prep Batch: 107310 Sample Preparation: 2015-12-03 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1370</b>	<b>1370</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409327 - 692-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126897 Date Analyzed: 2015-12-10 Analyzed By: CF  
 Prep Batch: 107393 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409328 - 692-06**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>450</b>	<b>450</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409328 - 692-06**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	<b>3.04</b>	<b>3.04</b>	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 409328 - 692-06**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126800 Date Analyzed: 2015-12-04 Analyzed By: MC  
 Prep Batch: 107310 Sample Preparation: 2015-12-03 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	<b>1420</b>	<b>1420</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409328 - 692-06**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126926 Date Analyzed: 2015-12-11 Analyzed By: CF  
 Prep Batch: 107418 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409329 - 692-07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

*continued ...*



sample 409329 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>582</b>	<b>582</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409329 - 692-07**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>3.13</b>	<b>3.13</b>	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 409329 - 692-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126800 Date Analyzed: 2015-12-04 Analyzed By: MC  
 Prep Batch: 107310 Sample Preparation: 2015-12-03 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1490</b>	<b>1490</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409329 - 692-07**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126926 Date Analyzed: 2015-12-11 Analyzed By: CF  
 Prep Batch: 107418 Sample Preparation: Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		U 2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409330 - 692-08**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>434</b>	<b>434</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409330 - 692-08**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 126804 Date Analyzed: 2015-12-02 Analyzed By: JR  
 Prep Batch: 107315 Sample Preparation: 2015-12-02 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>1.91</b>	<b>1.91</b>	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 409330 - 692-08**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 126800 Date Analyzed: 2015-12-04 Analyzed By: MC  
 Prep Batch: 107310 Sample Preparation: 2015-12-03 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	<b>1330</b>	<b>1330</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409330 - 692-08**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 126926 Date Analyzed: 2015-12-11 Analyzed By: CF  
 Prep Batch: 107418 Sample Preparation: Prepared By: CF

*continued . . .*

sample 409330 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

**Sample: 409331 - 692-09**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126804                              Date Analyzed: 2015-12-02                      Analyzed By: JR  
 Prep Batch: 107315                              Sample Preparation: 2015-12-02                      Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	<b>435</b>	<b>435</b>	<0.186	mg/L	20	0.186	2.5	0.0093

**Sample: 409331 - 692-09**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 126804                              Date Analyzed: 2015-12-02                      Analyzed By: JR  
 Prep Batch: 107315                              Sample Preparation: 2015-12-02                      Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	<b>2.88</b>	<b>2.88</b>	<0.0387	mg/L	1	0.0387	0.5	0.0387

**Sample: 409331 - 692-09**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 126858                              Date Analyzed: 2015-12-09                      Analyzed By: MC  
 Prep Batch: 107356                              Sample Preparation: 2015-12-08                      Prepared By: MC

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
			Result	Result	Result					
Total Dissolved Solids		1,4,5	<b>1320</b>	<b>1320</b>	<125	mg/L	50	125	2.5	2.5

**Sample: 409331 - 692-09**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 126926

Prep Batch: 107418

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2015-12-11

Sample Preparation:

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
			Result	Result	Result					
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.18	<10.0	<1.18	mg/L	1	1.18	10	1.18

## Method Blanks

### Method Blank (1)

QC Batch: 126800  
Prep Batch: 107310

Date Analyzed: 2015-12-04  
QC Preparation: 2015-12-03

Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

### Method Blank (1)

QC Batch: 126804  
Prep Batch: 107315

Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00930	mg/L	0.0093

### Method Blank (1)

QC Batch: 126804  
Prep Batch: 107315

Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0387	mg/L	0.0387

### Method Blank (1)

QC Batch: 126858  
Prep Batch: 107356

Date Analyzed: 2015-12-09  
QC Preparation: 2015-12-08

Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<25.0	mg/L	2.5

**Method Blank (1)**

QC Batch: 126896  
Prep Batch: 107392

Date Analyzed: 2015-12-10  
QC Preparation: 2015-12-10

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

**Method Blank (1)**

QC Batch: 126897  
Prep Batch: 107393

Date Analyzed: 2015-12-10  
QC Preparation: 2015-12-10

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18

**Method Blank (1)**

QC Batch: 126926  
Prep Batch: 107418

Date Analyzed: 2015-12-11  
QC Preparation: 2015-12-11

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.18	mg/L	1.18



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126800  
Prep Batch: 107310

Date Analyzed: 2015-12-04  
QC Preparation: 2015-12-03

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	999	mg/L	10	1000	<25.0	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Dissolved Solids		1,4,5	998	mg/L	10	1000	<25.0	100	90 - 110	0	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126804  
Prep Batch: 107315

Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	27.1	mg/L	1	25.0	<0.00930	108	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Chloride		1,4,5	26.0	mg/L	1	25.0	<0.00930	104	90 - 110	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Laboratory Control Spike (LCS-1)

QC Batch: 126804  
Prep Batch: 107315

Date Analyzed: 2015-12-02  
QC Preparation: 2015-12-02

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	5.23	mg/L	1	5.00	<0.0387	105	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.





Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.3	mg/L	1	40.0	<1.18	88	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	36.4	mg/L	1	40.0	<1.18	91	82.8 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 126926  
Prep Batch: 107418

Date Analyzed: 2015-12-11  
QC Preparation: 2015-12-11

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	38.1	mg/L	1	40.0	<1.18	95	82.8 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	36.4	mg/L	1	40.0	<1.18	91	82.8 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Matrix Spikes

## Matrix Spike (MS-1) Spiked Sample: 409326

QC Batch: 126896 Date Analyzed: 2015-12-10 Analyzed By: CF  
Prep Batch: 107392 QC Preparation: 2015-12-10 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	37.0	mg/L	1	40.0	2.24	87	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	36.4	mg/L	1	40.0	2.24	85	77.9 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (MS-1) Spiked Sample: 409327

QC Batch: 126897 Date Analyzed: 2015-12-10 Analyzed By: CF  
Prep Batch: 107393 QC Preparation: 2015-12-10 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	34.7	mg/L	1	40.0	<1.18	87	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	34.2	mg/L	1	40.0	<1.18	86	77.9 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Matrix Spike (MS-1) Spiked Sample: 409409

QC Batch: 126926 Date Analyzed: 2015-12-11 Analyzed By: CF  
Prep Batch: 107418 QC Preparation: 2015-12-11 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	35.8	mg/L	1	40.0	<1.18	90	77.9 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	37.0	mg/L	1	40.0	<1.18	92	77.9 - 115	3	20

---

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

# Calibration Standards

## Standard (CCV-1)

QC Batch: 126804

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.3	101	90 - 110	2015-12-02

## Standard (CCV-1)

QC Batch: 126804

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.98	100	90 - 110	2015-12-02

## Standard (CCV-2)

QC Batch: 126804

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	25.1	100	90 - 110	2015-12-02

## Standard (CCV-2)

QC Batch: 126804

Date Analyzed: 2015-12-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.99	100	90 - 110	2015-12-02



Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2015-12-10

**Standard (CCV-1)**

QC Batch: 126896

Date Analyzed: 2015-12-10

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2015-12-10

**Standard (ICV-1)**

QC Batch: 126897

Date Analyzed: 2015-12-10

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2015-12-10

**Standard (CCV-1)**

QC Batch: 126897

Date Analyzed: 2015-12-10

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2015-12-10

**Standard (ICV-1)**

QC Batch: 126926

Date Analyzed: 2015-12-11

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	5.04	101	85 - 115	2015-12-11

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**Standard (CCV-1)**

QC Batch: 126926

Date Analyzed: 2015-12-11

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2015-12-11

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## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike	
					Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.0250	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0833	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	2.00	Pass

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# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

## Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418.01	El Paso
2	L-A-B	L2418	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-15-6	El Paso
6	NELAP	T104704219-15-11	Lubbock
7		2015-066	Lubbock

## Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

---

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

**Company Name:** D&H United Fueling Solutions  
**Address:** (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
**Contact Person:** Rosalio Guillen  
**Phone #:** 915-859-8150  
**Cell #:**  
**Fax #:**  
**E-mail:** rguillen@dhpump.com

**Project #:** 481237  
**Project Name:** Del Oro Dairy  
**Sampler Signature:** *Judy*

**Project Location (including state):** Del Oro Dairy, 1025 East O'Hara, Anthony, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE
409324-1	Lagoon	1	250	X				X	X	X	X	12-2-15	10:01
1-2	Lagoon	1		X				X	X	X	X	12-2-15	10:01
325-1	692-01	1		X				X	X	X	X	12-2-15	12:42
1-2	692-01	1		X				X	X	X	X	12-2-15	12:42
326-1	692-02	1		X				X	X	X	X	12-2-15	12:06
1-2	692-02	1		X				X	X	X	X	12-2-15	12:06
327-1	692-05	1		X				X	X	X	X	12-2-15	11:02
1-2	692-05	1		X				X	X	X	X	12-2-15	11:02
328-1	692-06	1		X				X	X	X	X	12-2-15	10:31
1-2	692-06	1		X				X	X	X	X	12-2-15	10:31
329-1	692-07	1		X				X	X	X	X	12-2-15	8:59
1-2	692-07	1		X				X	X	X	X	12-2-15	8:59
330-1	692-08	1		X				X	X	X	X	12-2-15	9:33
1-2	692-08	1		X				X	X	X	X	12-2-15	9:33
331-1	692-09	1		X				X	X	X	X	12-2-15	11:33
1-2	692-09	1		X				X	X	X	X	12-2-15	11:33

ANALYSIS REQUEST	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1 / TX1005	TX 1005 Extended (C35)	PAH 8270C	PAH 8270 (Low Level Analysis)	Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	Nitrate as Nitrogen EPA 300.0	Chloride EPA Method 300.0	Sulfate EPA Method 300.0	Total Dissolved Solids SM 2540 C MOD	Total Kjeldahl Nitrogen SM 4500 NORG C	Phosphorus SM 4500	Turn Around Time	Hold
								X	X	X	X	X	X		

Remarks: *J.S. 493307121*

**TraceAnalysis, Inc.**

**Company Name:** D&H United Fueling Solutions  
**Address:** (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
**Contact Person:** Rosalio Guillen  
**Phone #:** 915-859-8150  
**Cell #:**  
**Fax #:**  
**E-mail:** rguillen@dhpump.com

**Project #:** 481237  
**Project Name:** Del Oro Dairy  
**Sampler Signature:** *Judy*

**Project Location (including state):** Del Oro Dairy, 1025 East O'Hara, Anthony, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX	PRESERVATIVE METHOD	SAMPLING	DATE	TIME
409324-1	Lagoon	1	250	WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	10:01
1-2	Lagoon	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	10:01
325-1	692-01	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	12:42
1-2	692-01	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	12:42
326-1	692-02	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	12:06
1-2	692-02	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	12:06
327-1	692-05	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	11:02
1-2	692-05	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	11:02
328-1	692-06	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	10:31
1-2	692-06	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	10:31
329-1	692-07	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	8:59
1-2	692-07	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	8:59
330-1	692-08	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	9:33
1-2	692-08	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	9:33
331-1	692-09	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	11:33
1-2	692-09	1		WATER	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, ICE, NONE		12-2-15	11:33

**Relinquished By:** *Judy* **Date:** 12-2-15 **Time:** 14:05

**Received By:** *Mike* **Date:** 12-2-15 **Time:** 14:05

**Relinquished By:** *Mike TRASP* **Date:** 12-2-15 **Time:** 16:30

**Received at Laboratory By:** *ADLE TAL* **Date:** 12/3/15 **Time:** 8:00

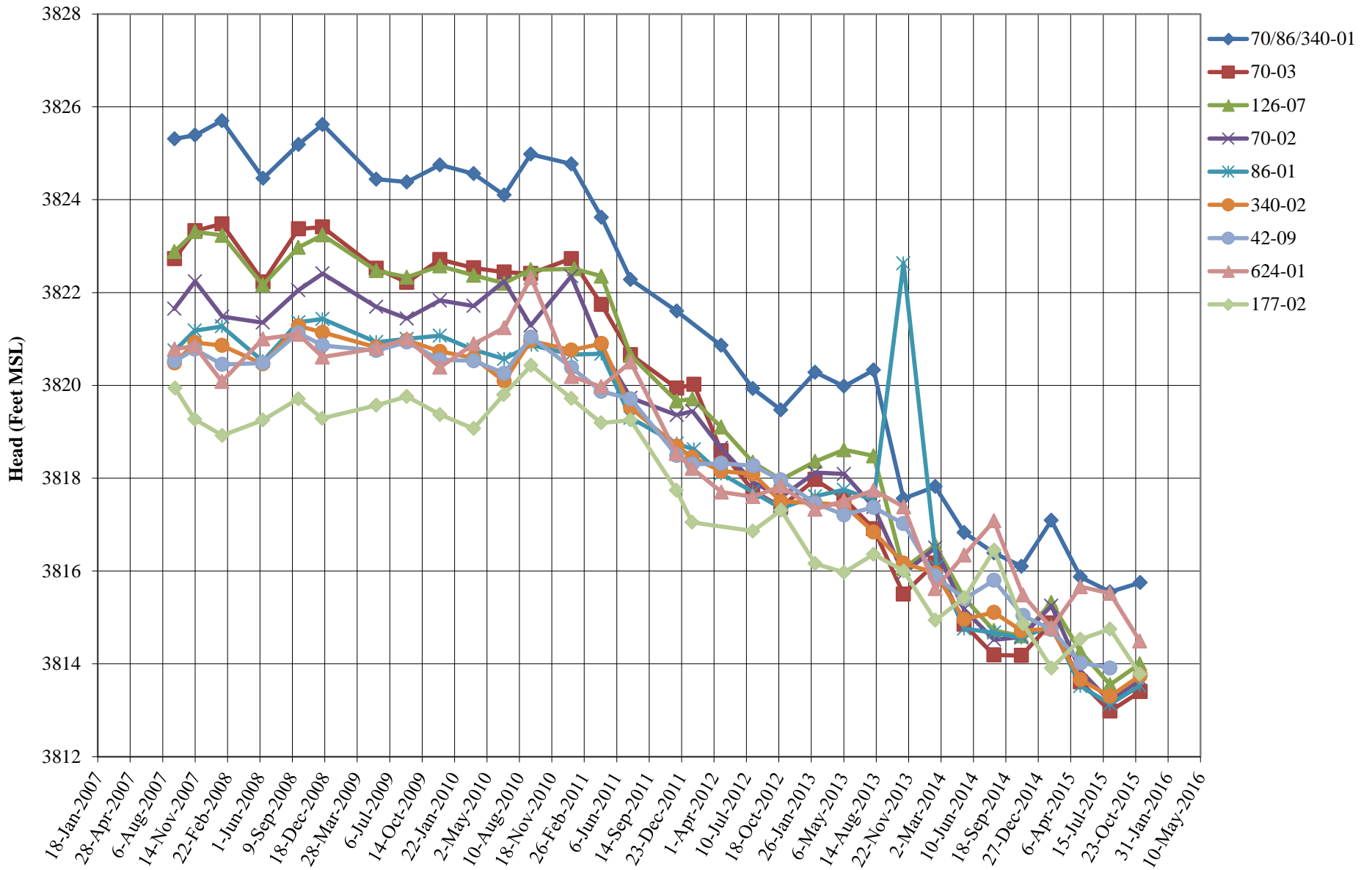
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 Headspace  Y  N  
 Temp  1  2  3  
 Log-in Review  Y  N

Remarks: *J.S. 493307121*

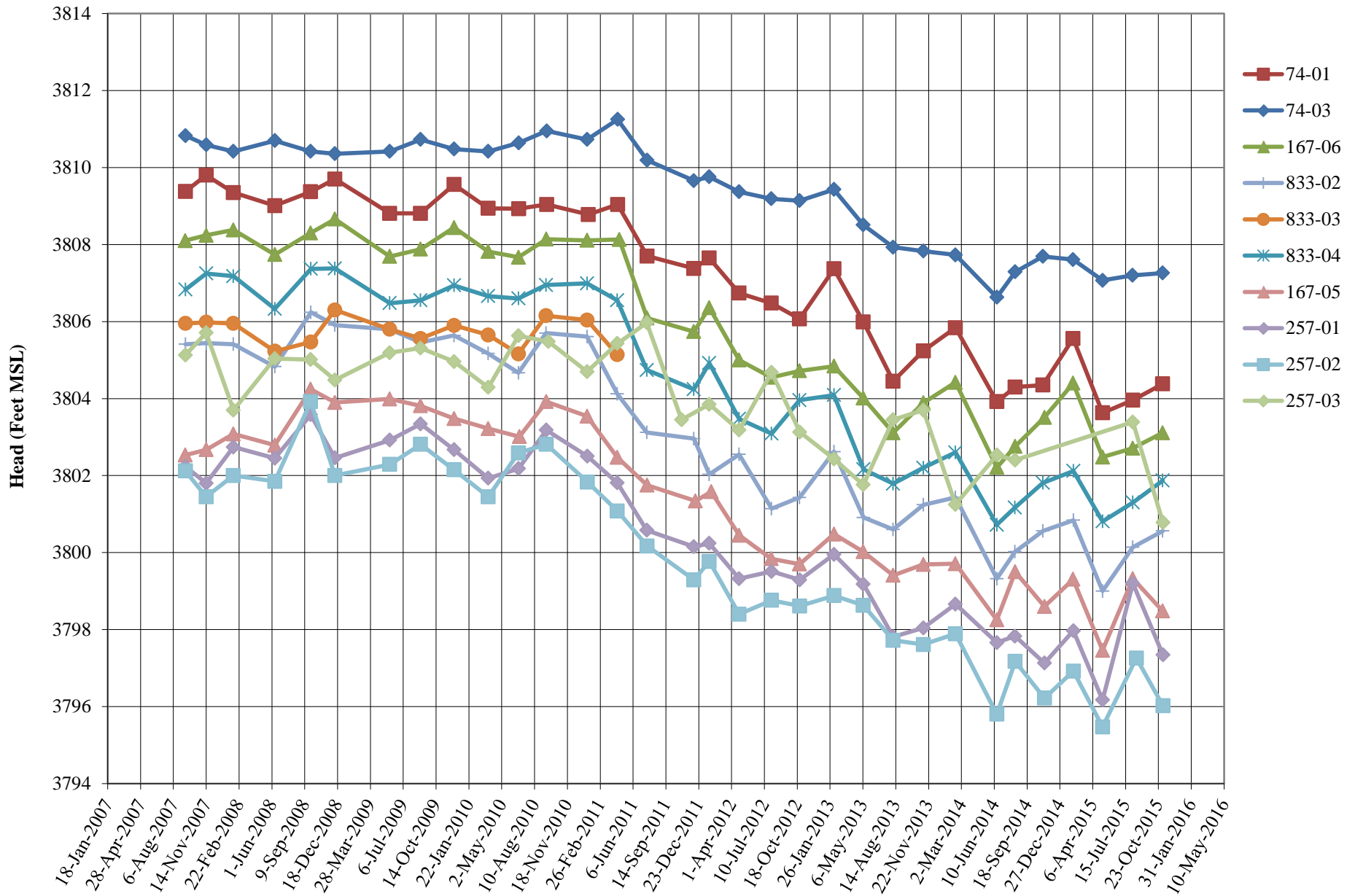
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 TRRP Report Required

**APPENDIX C  
HYDROGRAPHS**

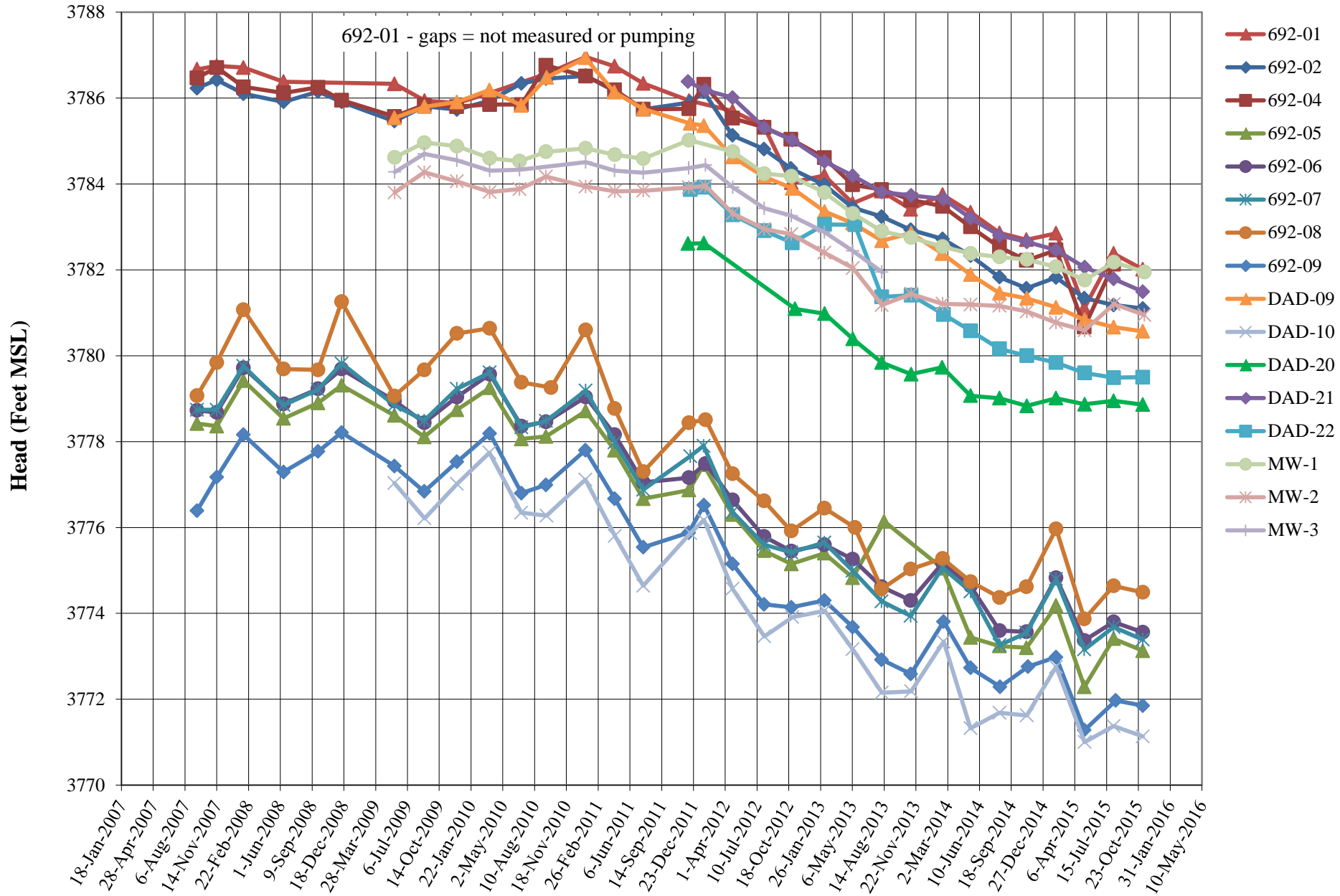
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## HYDROGRAPHS FOR SELECT DP MONITORING WELLS CENTRAL PORTION DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO



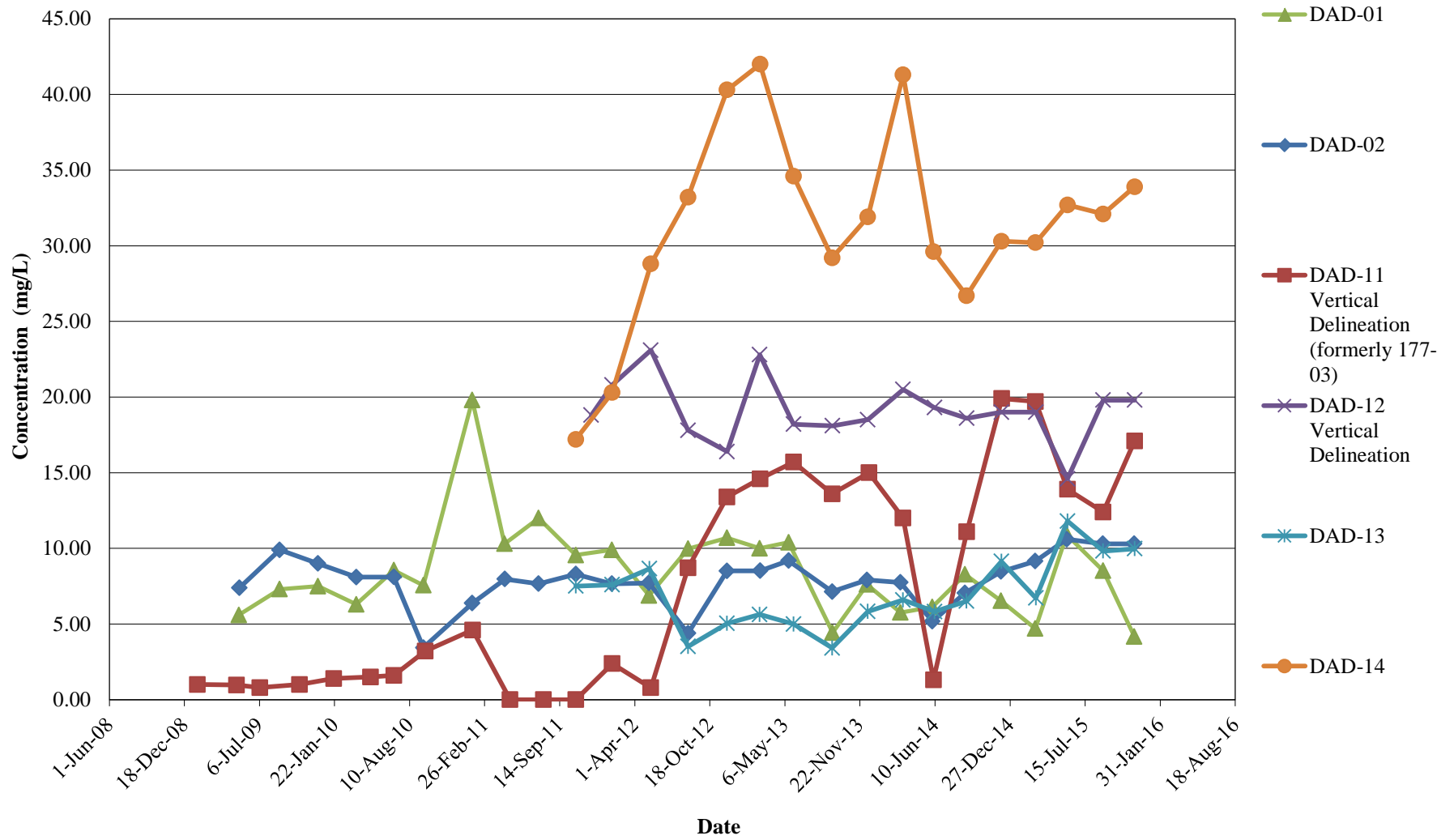
## HYDROGRAPHS FOR DP MONITORING WELLS SOUTHERN PORTION DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO



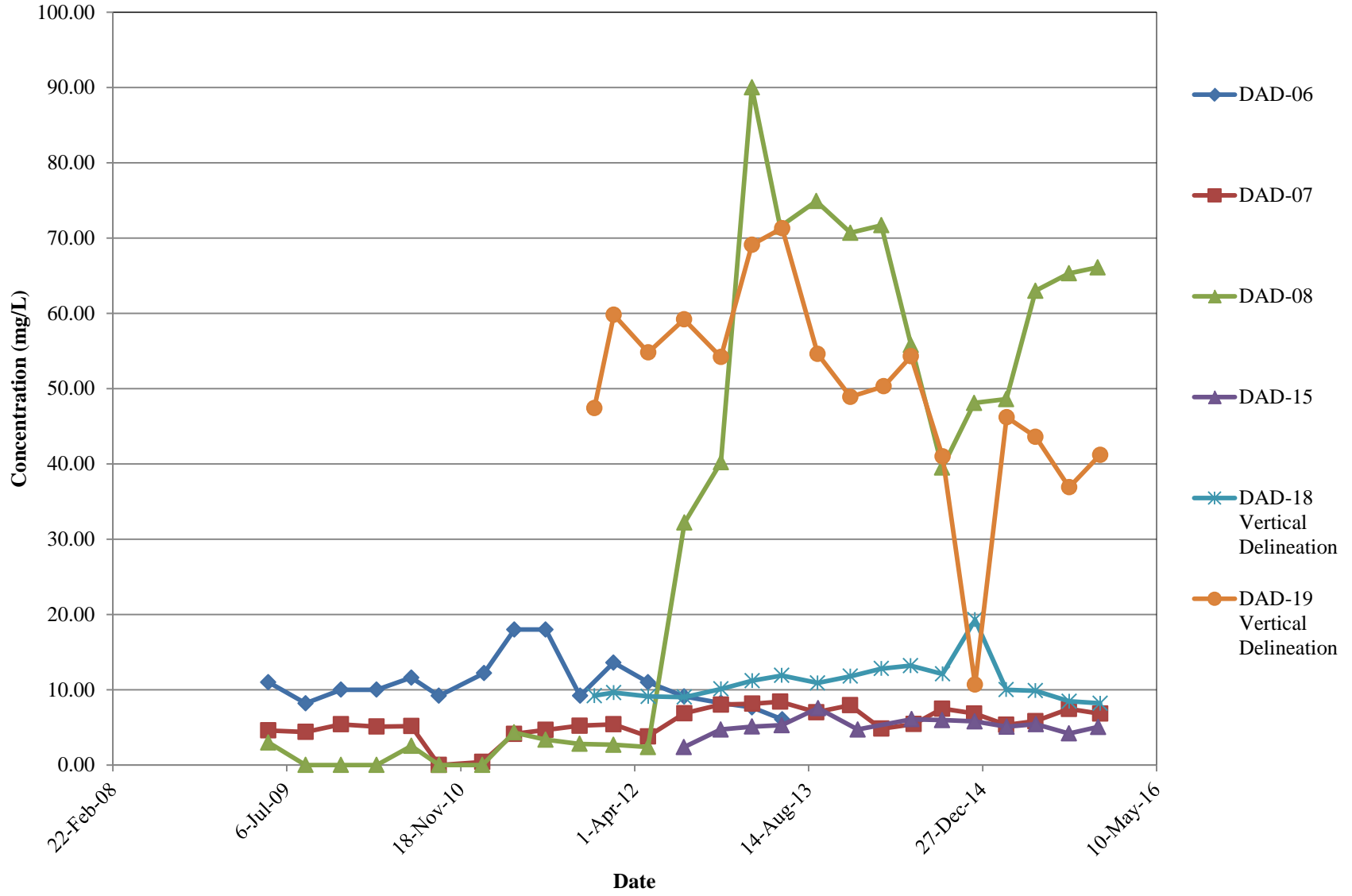


**APPENDIX D  
CONCENTRATION TRENDS**

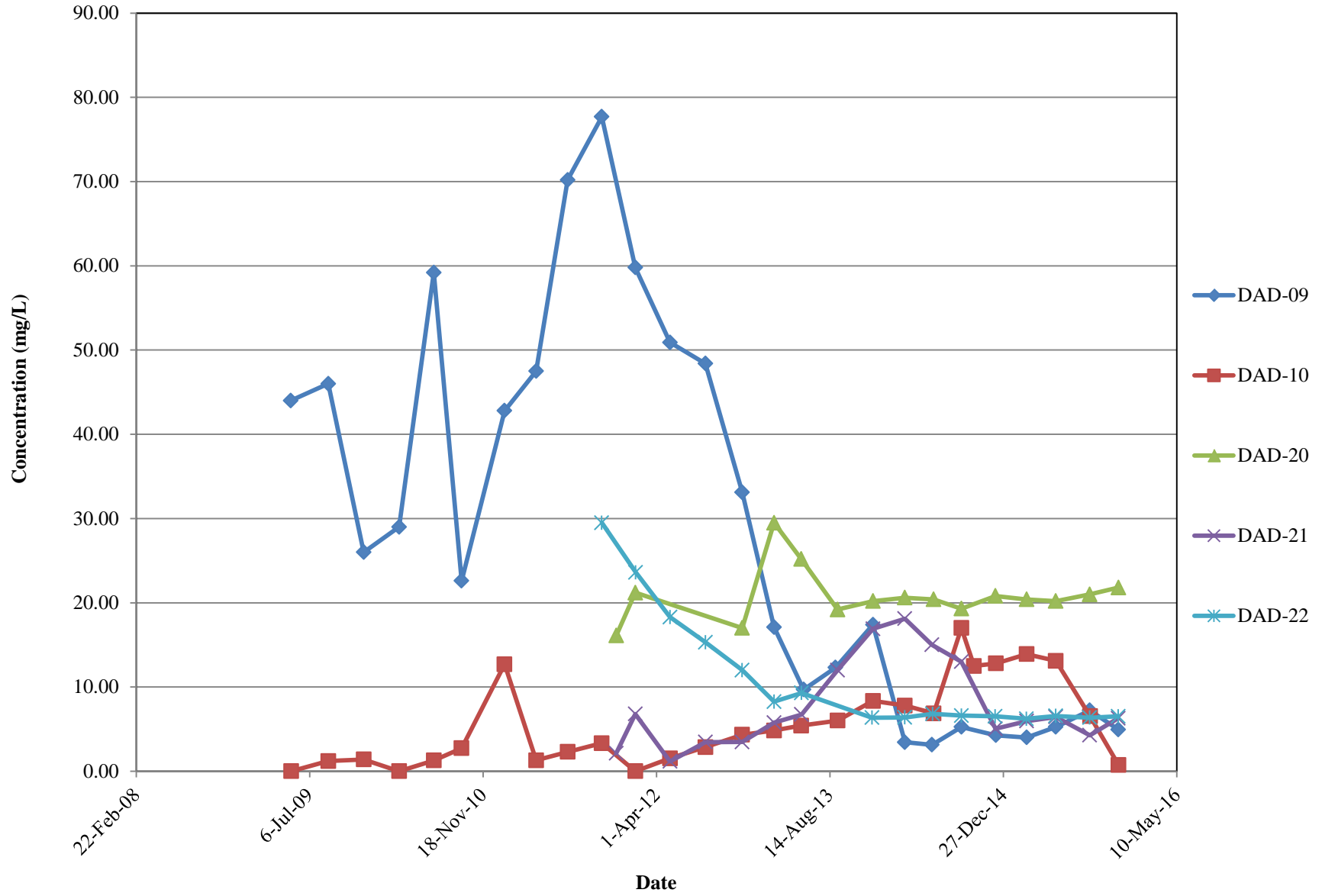
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DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



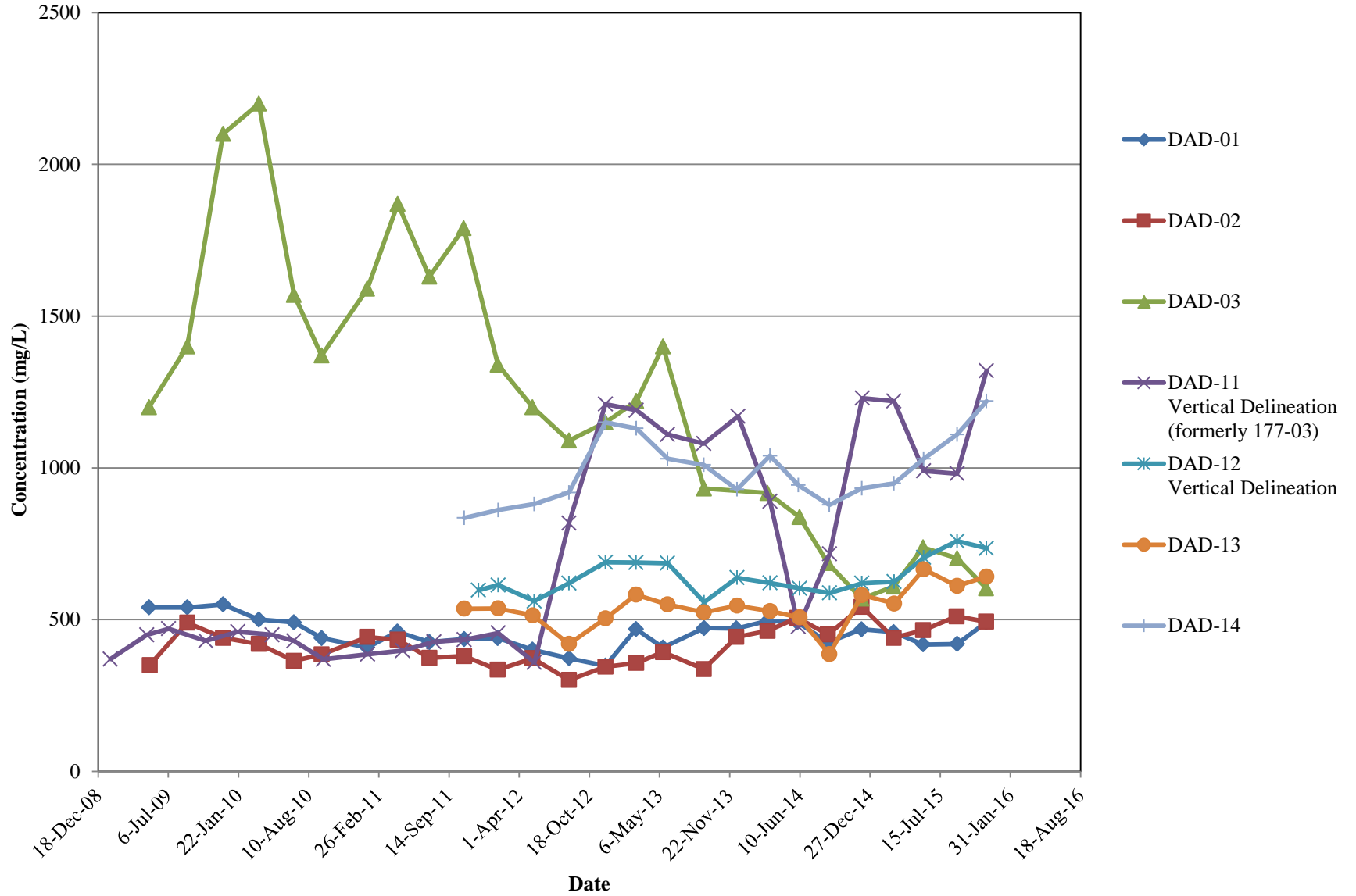
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DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



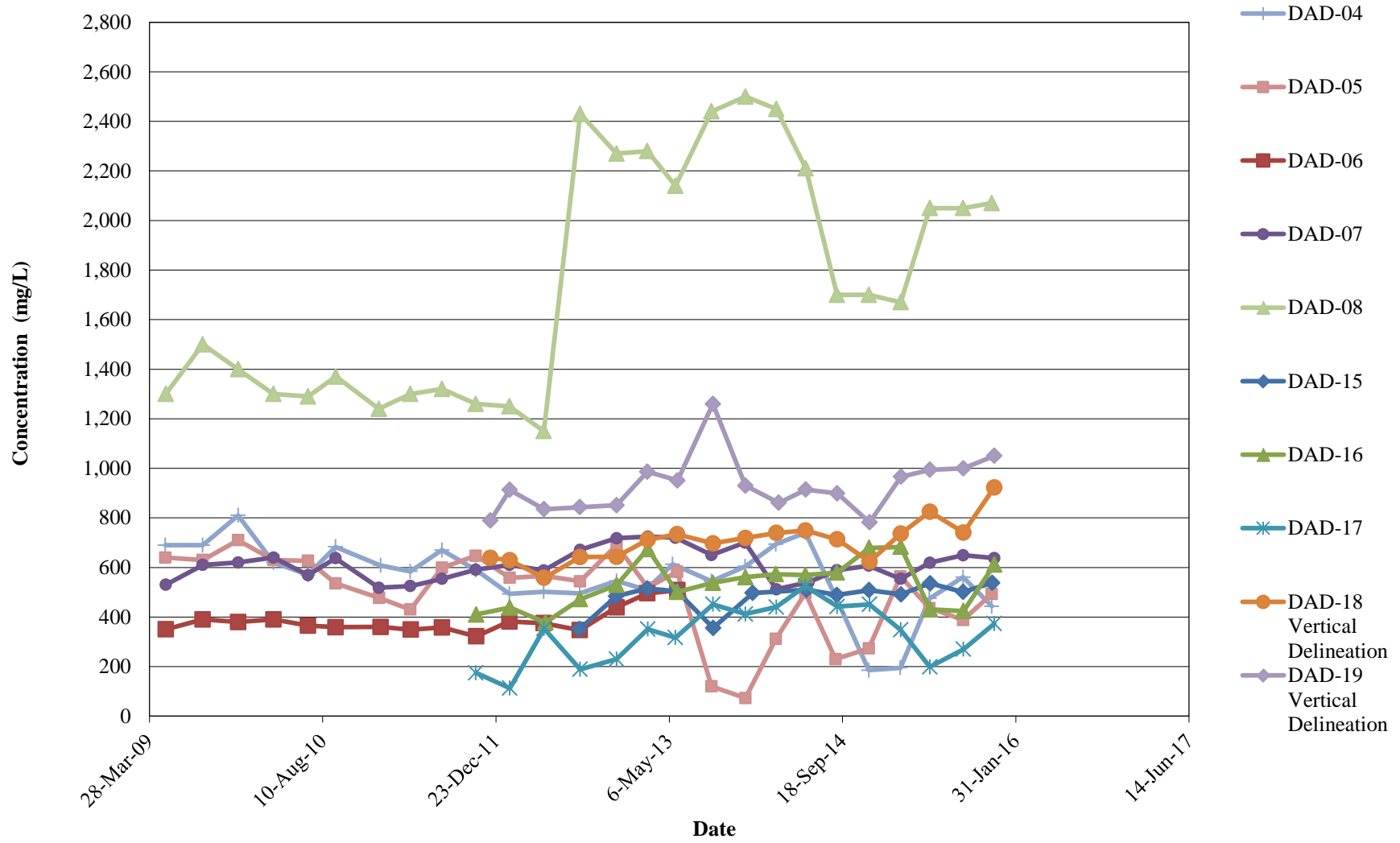
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DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



**CHLORIDE CONCENTRATION TRENDS  
NORTHERN DAD WELLS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



**CHLORIDE CONCENTRATION TRENDS  
CENTRAL DAD MONITORING WELLS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



**CHLORIDE CONCENTRATION TRENDS  
SOUTHERN DAD WELLS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

