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August 6, 2014

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

Mr. Bart Faris  
New Mexico Environment Department  
Ground Water Quality Bureau  
Remediation Oversight Section  
5500 San Antonio Dr. NE  
Albuquerque, New Mexico 87109

Dear Messrs. Montes and Faris:

On behalf of Doña Ana Dairies, Inc., EA Engineering, Science, and Technology, Inc. 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 1 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', written in a cursive style.

Teri McMillan  
Project Manager

A handwritten signature in blue ink, appearing to read 'Jay Snyder', written in a cursive style.

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:

EA Engineering, Science,  
and Technology, Inc.  
320 Gold Avenue SW, Suite 1210  
Albuquerque, New Mexico 87102

August 2014

EA Project No. 1464103.0006



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Teri McMillan  
Project Manager

08/06/2014

Date

Jay Snyder  
Senior Hydrogeologist

08/06/2014

Date

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## 1.0 INTRODUCTION

On behalf of Doña Ana Dairies (Dairies), EA Engineering, Science, and Technology, Inc. (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 1 and 2 Abatement Plan Proposal* and the *Sampling and Analysis Plan, Doña Ana Dairies, Doña Ana County, New Mexico* dated December 11, 2006 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 Stage 1 and 2 Abatement Plan was approved on June 16, 2008 by the New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB). The Sampling and Analysis Plan was approved by the NMED GWQB on September 25, 2008.

### 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 May 12 through 13, 2014, representatives from D&H Petroleum and Environmental Services, Inc. (D&H) gauged all discharge plan (DP) and abatement plan (AP) monitoring wells.
- On May 14 through June 12, 2014, D&H representatives collected groundwater samples from 21 of the 22 AP wells, each of the Dairies' DP monitoring wells, and DP specified lagoons. AP well DAD-06 did not contain enough water to sample. The sampling campaign lasted about one month. 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;
- On June 18, 2014, D&H representatives re-gauged all the DP monitoring wells in the Central Area due to suspect gauging data from the May 12 and 13 gauging activities.
- 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 in November 2013.

Quarterly groundwater monitoring is currently being conducted.

## **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 May 12 through 13, 2014, representatives from D&H gauged the DP and AP monitoring wells with an electronic water level indicator. On June 18, 2014, all DP monitoring wells in the central area, with the exception of the DAD wells, were re-gauged due to suspect data from the May 12 and 13 gauging activities. Due to a declining water table, several wells were dry. 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 June 3 through June 12, 2014, D&H sampled the AP monitoring wells DAD-01 through DAD-22 with disposable bailers with the exception of wells DAD-06, which was dry. Three well volumes were purged with new disposable bailers and rope from each well prior to sampling, unless the well contained insufficient water.

D&H sampled the DP wells from May 12 through June 2, 2014. Prior to sampling, the DP wells were purged three well volumes, if practicable, by hand-bailing with new disposable bailers, by pumping with a submersible pump and new polyethylene tubing, or 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. Field parameters including, at a minimum, specific conductance, pH, and temperature were monitored and recorded for most of the monitoring wells. The sampling field forms are presented in Appendix A. All meters were calibrated and/or checked with standards in accordance with manufacturer's specifications prior to daily use. Purge water was ground discharged.

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 2. 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 12.21 feet below top of casing (ft TOC) in Abatement well 257-03 to 131.63 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. In general, water levels have decreased in most wells in the northern, central, and southern areas when compared to the monitoring event conducted in February 2014 (See hydrographs presented in Appendix C). The long term decreases in water levels have resulted in many wells becoming dry.

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

#### 3.2 Groundwater Analytical Results

##### 3.2.1 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-08, DAD-12 (vertical delineation well), DAD-14, DAD-18 (vertical delineation well), DAD-19 (vertical delineation well), DAD-20 and DAD-21. Both chloride and TDS concentrations exceeded their respective NMWQCC standards in all 21 wells sampled.

Nitrate concentrations generally decreased in most of the DAD wells, with the exception of wells DAD-01, DAD-07, DAD-15, DAD-18, DAD-19, and DAD-22 where nitrate concentrations slightly increased. Well DAD-08 saw the largest decrease in nitrate concentrations decreasing from 71.7mg/L in March 2014 to 55.8 mg/L for this monitoring event. Well DAD-11 decreased from 12.0 mg/L in March 2014 to 1.31 mg/L dropping below MNWQCC standards for the first time since August 2012. AP well DAD-19 had the largest increase in nitrate concentrations since March 2014, increasing from 50.3 mg/L to 54.3 mg/L for this event. Nitrate concentrations in the AP wells ranged from below detection limits at <0.187 mg/L in well DAD-03 to 55.8 mg/L in well DAD-08 for this event.

Chloride concentrations and TDS in all wells remained relatively constant compared to levels measured in the past with the exception of wells DAD-05, DAD-11, and DAD-14. Chloride and

TDS concentrations in well DAD-05 have been suspect in the September and December 2013 monitoring events, but concentrations appear to have returned to previous concentrations for the March 2014 and June 2014 events. Chloride concentrations in well DAD-11 decreased from 890 mg/L in February 2014 to 477 mg/L for this event, and TDS concentrations decreased from 3,230 mg/L in February 2014 to 1,860 mg/L for this event. Chloride concentration in the AP wells range from 440 mg/L in well DAD-09 to 2,210 mg/L in well DAD-08 for this event, and TDS ranged from 1,560 mg/L in well DAD-10 to 5,840 mg/L in well DAD-08.

Table 3 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.

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

DP groundwater analytical results are summarized in Table 4. 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 downgradient extent of the nitrate plume within the northern portion is defined by well DAD-02 with a nitrate concentration of 5.18 mg/L. The upgradient well (northern land application well 86/340-1) had a nitrate concentration of 15.4 mg/L, which is slightly above the NMWQCC standard for nitrate (10 mg/L). All eastern cross-gradient wells (Dominguez #2 wells 42-10, 42-11, 42-12, and AP well DAD-01) have 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 for the last five quarters. Nitrate concentrations in the well nearest to Dominguez well 624-05, Day Break (Dominguez #2) well 42-02, increased slightly from 9.28 mg/L in February 2014 to 10.2 mg/L for this event.

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 in the Northern Land Application area well 70-03 at 2,580 mg/L and 6,880 mg/L, respectively.

#### Central Portion

The highest nitrate concentrations were observed in Big Sky Dairy wells 833-07 and 833-08 at concentrations of 87.0 mg/L and 91.5 mg/L, respectively. The extent of the nitrate plume is defined in the central portion by upgradient well Buena Vista Dairy II well 74-03, AP well DAD-17 defines the downgradient extent of the plume. The eastern cross-gradient extent of the plume is defined by DAD-07 and DAD-15, and the western extent is defined by DAD-04, DAD-05 and DAD-16 where nitrate concentrations remain below standards in these wells.

Nitrate concentrations generally decreased or remained the same in the central portion during this sampling event.

Chloride and TDS concentrations are above standards in all wells within the central portion, with the exception of the chloride content in well River Valley Dairy 167-07. The highest chloride and TDS concentrations were observed at well DAD-08 at 2,210 mg/L and 5,840 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 of 10 mg/L.

In the shallow perched aquifer, the nitrate plume is not defined downgradient (southwest). Nitrate concentrations in AP wells DAD-20 and DAD-21 were above NMWQCC standard. AP wells DAD-09 and DAD-22 remained below standards for this event at 3.14 mg/L and 6.80 mg/L, respectively. The well with the highest nitrate concentration in the shallow perched aquifer is Del Oro Dairy well 692-02 with a concentration of 128 mg/L.

Chloride and TDS concentrations are above NMWQCC standards in all wells sampled within the southern portion. Chloride concentrations in this area ranged from 427 mg/L in Del Oro Dairy well 692-05 to 906 mg/L in well 692-02, while TDS ranged from 1,300 mg/L in Del Oro dairy wells 692-08 and 692-09 to 3,370 mg/L in Del Oro Dairy well 692-02. Upgradient well Del Oro 692-08 had a chloride concentration of 435 mg/L and a TDS concentration of 1,300 mg/L.

#### 4.0 CONCLUSION AND RECOMMENDATIONS

The groundwater monitoring event included the gauging of all DP and DAD wells and sampling of 21 DAD wells and the DP wells that 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 to 132 feet below the top of casing.
- On average, water levels have decreased across the site since February 2014.
- 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, with the exception of River Valley Dairy well 167-07 with a concentration of 209 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.

EA has recommended, in the Stage 2 Abatement Plan, the number of abatement and discharge plan wells be reduced for quarterly sampling.

## 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. October 30.
- 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. December 11.
- Golder 2008a. Existing Data Report and Conceptual Work Plan, Doña Ana Dairies, Mesquite, New Mexico. February 1.
- 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. July 28.
- Golder 2008d. Sampling and Analysis Plan. Doña Ana Dairies, Mesquite, New Mexico. August 11.
- New Mexico Environment Department (NMED). 2008. Conditional Approval of Stage 1 Abatement Plan for Doña Ana Dairies. Letter from Mr. Bill Olson, Chief, Ground Water Quality Bureau, to Mr. Weatherly, Doña Ana Dairies. June 16.
- NMED. 2008. Approval of Sampling and Analysis Plan for the Doña Ana Dairies, Stage 1 Abatement Plan, Doña Ana County, New Mexico. September 25.

## **TABLES**

**TABLE 1. SUMMARY OF MONITOR 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	12-May-2014	424580.78	1510233.88	3871.43	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				
70/86/340-01	12-May-2014	427320.92	1508461.05	3866.77	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				

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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	12-May-2014	432021.33	1503216.90	3876.14	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				
<b>Former Daybreak Dairy (Del Norte Dairy)</b>						
126-04	12-May-2014	423258.23	1510546.24	3850.31	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				



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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	12-May-2014	422293.26	1510649.84	3842.62	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				
126-07	12-May-2014	423613.62	1509986.47	3850.94	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 MONITOR 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	12-May-2014	425154.15	1510994.31	3893.35	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				
126-12	12-May-2014	421492.11	1510198.45	3838.88	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 MONITOR 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	12-May-2014	423431.96	1510657.41	3857.37	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				
<b>Mountain View Dairy</b>						
70-01	12-May-2014	423303.43	1510585.63	3851.84	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 MONITOR 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	12-May-2014	423412.73	1511192.51	3861.25	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	12-May-2014	422798.94	1510922.20	3849.81	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
<b>Buena Vista Dairy I</b>						
86-01	12-May-2014	421534.62	1511667.76	3864.96	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 MONITOR 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	12-May-2014	421792.08	1510881.53	3848.08	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				
<b>Bright Star Dairy</b>						
340-01	12-May-2014	421410.13	1511423.42	3858.48	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 MONITOR 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	12-May-2014	420641.08	1512051.57	3869.76	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				
<b>Former D&amp;J Dairy (Dominguez 2)</b>						
42-02	13-May-2014	419982.45	1511126.19	3844.68575	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 MONITOR 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	13-May-2014	419710.55	1514064.35	3898.46	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				
42-06	13-May-2014	420021.61	1511465.15	3850.15	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 MONITOR 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	13-May-2014	420584.8	1513076.66	3891.52	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				
42-08	13-May-2014	419994.93	1511197.91	3846.53	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 MONITOR 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	13-May-2014	419729.17	1512255.76	3865.25	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				
42-10	13-May-2014	421426.39	1514460.4	3929.28	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 MONITOR 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	13-May-2014	420693.98	1515270.32	3939.31	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				
42-12	13-May-2014	420972.09	1515423.88	3945.83	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 MONITOR 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	13-May-2014	419734.06	1512534.42	3873.10	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				
<b>Dominguez Dairy</b>						
624-01	12-May-2014	418826.21	1512131.46	3843.72	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 MONITOR 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	12-May-2014	417335.25	1512201.42	3835.45	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				
624-04	12-May-2014	418542.24	1508104.07	3835.69	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 MONITOR 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	12-May-2014	419777.52	1509829.65	3835.27	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				
624-06	12-May-2014	418502.42	1513981.08	3868.18	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 MONITOR 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	12-May-2014	418012.23	1514707.77	3872.25	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				
624-08	12-May-2014	421461.78	1507712.04	3838.70	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 MONITOR 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	13-May-2014	417300.94	1512942.63	3834.27	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				
177-02	13-May-2014	416738.21	1513246.51	3834.66	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	12-May-2014	416206.71	1513777.17	3835.75	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 MONITOR 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	13-May-2014	416796.99	1513733.28	3840.33	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				
177-05	13-May-2014	417302.42	1514116.55	3852.16	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 MONITOR 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	12-May-2014	417301.84	1514765.63	3866.02	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	13-May-2014	415240.93	1515476.47	3858.91	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
177-07	Apr-11	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	

**TABLE 1. SUMMARY OF MONITOR 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>CENTRAL AREA</b>						
<b>Buena Vista Diary II</b>						
74-01	18-Jun-2014	405434.93	1519310.15	3841.01	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				
<b>Buena Vista Diary II Continued</b>						
74-02	18-Jun-2014	404574.08	1519035.52	3820.58	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 MONITOR 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	18-Jun-2014	407163.61	1516711.72	3823.36	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				
74-04	18-Jun-2014	405488.65	1519864.48	3853.17	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 MONITOR 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	18-Jun-2014	404747.71	1519885.3	3845.35	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				
<b>River Valley Dairy</b>						
167-01	18-Jun-2014	402518.37	1518459.71	3818.94	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 MONITOR 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	18-Jun-2014	402518.18	1518936.72	3818.88	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				
167-02	18-Jun-2014	402498.3	1519354.81	3819.64	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 MONITOR 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	18-Jun-2014	402981.73	1519415.73	3825.66	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				
167-04	18-Jun-2014	402032.19	1519884.6	3827.60	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				Well Damaged	
	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 MONITOR 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	18-Jun-2014	397947.44	1520446.03	3815.44	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				
167-06	18-Jun-2014	404479.35	1519603.88	3834.84	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 MONITOR 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	18-Jun-2014	402562.23	1518480.34	3819.08	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	18-Jun-2014	399352.96	1519889.65	3817.96	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 MONITOR 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	18-Jun-2014	398473.95	1519259.34	3817.00	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				
<b>Big Sky Dairy</b>						
833-01	18-Jun-2014	399617.23	1521136.33	3839.55	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				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 MONITOR 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	18-Jun-2014	401200.32	1520639.92	3836.04	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				
833-03	18-Jun-2014	401392.09	1521955.23	3867.06	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 MONITOR 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	18-Jun-2014	402898.52	1520659.33	3845.79	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				
833-05	18-Jun-2014	399712.39	1522374.73	3865.51	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 MONITOR 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	18-Jun-2014	402219.48	1522652.04	3878.20	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-2011				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				
833-07	18-Jun-2014	399298.8	1522082.75	3860.70	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 MONITOR 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	18-Jun-2014	400535.64	1521938.23	3861.76	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				
833-09	18-Jun-2014	398280.67	1520918.52	3826.27	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 MONITOR 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	18-Jun-2014	396715.89	1520283.6	3820.76	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				
<b>Sunset/Desert Land Dairy</b>						
257-01	18-Jun-2014	395856.31	1520572.16	3820.33	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 MONITOR 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	18-Jun-2014	394728.34	1521030.29	3813.67	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				
257-03	18-Jun-2014	397935.69	1518746.14	3814.74	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 MONITOR 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	18-Jun-2014	397678.36	1519948.22	3814.04	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	NM	NM	Destroyed	
	10-Jun-2008				8.33	--



**TABLE 1. SUMMARY OF MONITOR 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	13-May-2014	373615.88	1531529.38	3844.13	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				
692-02	13-May-2014	372984.72	1531192.1	3840.84	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 MONITOR 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	13-May-2014	372982.53	1531555.21	3842.66	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				
692-05	13-May-2014	374807.26	1532403	3854.26	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 MONITOR 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	13-May-2014	375054.77	1532411.83	3856.48	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				
692-07	13-May-2014	374944.88	1532019.81	3848.20	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 MONITOR 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	13-May-2014	375535.69	1531378.09	3843.09	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				
692-09	13-May-2014	373575.83	1532395.09	3856.32	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 MONITOR 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	13-May-2014	372097.86	1532364.36	3843.03	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	13-May-2014	NM	NM	3843.25	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				
MW-3	13-May-2014	NM	NM	3841.24	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				

**TABLE 1. SUMMARY OF MONITOR 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>ABATEMENT PLAN MONITOR WELLS</b>						
DAD-01	13-May-2014	422970.59	1512825.76	3886.16	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				
DAD-02	13-May-2014	413002.98	1517319.93	3875.82	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	13-May-2014	407721.31	1516497.85	3820.58	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 MONITOR 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	13-May-2014	404576.66	1517413.28	3821.47	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	13-May-2014	396712.87	1519102.06	3816.01	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				
DAD-06	13-May-2014	404273.19	1522081.00	3887.71	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				

**TABLE 1. SUMMARY OF MONITOR 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-07	13-May-2014	399270.18	1524320.88	3891.38	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				
DAD-08	13-May-2014	395287.38	1522575.07	3849.15	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	13-May-2014	373259.30	1530905.70	3838.03	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 MONITOR 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	13-May-2014	372980.55	1532375.33	3854.93	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 (177-03)	12-May-2014	416211.35	1513814.71	3835.90	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				
DAD-12	12-May-2014	419731.54	1512274.77	3866.72	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

**TABLE 1. SUMMARY OF MONITOR 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-13	13-May-2014	417879.08	1515673.13	3898.44	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	13-May-2014	414923.33	1514695.26	3841.90	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				
DAD-15	13-May-2014	402001.22	1523552.04	3897.61	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	13-May-2014	400628.77	1519350.74	3819.28	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	13-May-2014	393991.97	1520267.94	3817.75	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 MONITOR 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	13-May-2014	395714.14	1520588.96	3821.59	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	13-May-2014	400164.47	1522027.92	3864.50	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	13-May-2014	371751.45	1531188.19	3833.27	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
	DAD-21				13-May-2014	374013.39
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			

**TABLE 1. SUMMARY OF MONITOR 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-22	13-May-2014	373029.62	1530352.69	3827.14	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 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 3. 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	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	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 3. 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	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	Did Not Contain Enough 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	1100
	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
	NMED Split	9-Dec-09	<10	<5.0	2,100	5,590
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	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
	NMED Split	9-Dec-09	<2.0	1.7	810	2,720
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 3. 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	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	
	9-Dec-09	<2.0	1.3	710	2,420	NA	
	9-Dec-09	<0.1	0.95	563	2,290	362	
	NMED Split	29-Aug-09	<2.0	<2.0	630	2,310	NA
13-May-09		<2.0	<5.0	640	2,700	NA	
13-May-09		<10	1.6	618	2,260	NA	
Duplicate	13-May-09	<10	1.6	618	2,260	NA	
	13-May-09	<10	1.6	618	2,260	NA	
DAD-06	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 3. 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	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	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 3. 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	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
	19-Jan-11	42.8	2.38	745	2,600	NA
	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
	NMED Split	9-Dec-09	26	<5.0	300	1,190
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
DAD-10 Vertical Delineation	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
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 3. 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)	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	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	
DAD-13	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	

**TABLE 3. 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-14	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	6-Jun-14	6.09	<1.80	510	1,750	NA
	17-Mar-14	5.00	<1.66	519	1,820	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
DAD-16	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	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	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 3. 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	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	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	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		
DAD-22	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>	
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.							

**TABLE 4. 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>Northern Area</b>					
<b>Northern Land Application Area</b>					
70-03	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	14-May-14	6.56	<1.80	1,830	4,500
	18-Feb-14	7.19	<1.66	1,810	4,580
	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 4. 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	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>Former Daybreak Dairy (Del Norte Dairy)</b>					
126-04	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 4. 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	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	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 4. 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	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	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 4. 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	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	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 4. 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	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	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	
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	

**TABLE 4. 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>Bright Star Dairy</b>					
340-01	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	
340-02	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	

**TABLE 4. 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>Former D&amp;J Dairy (Dominguez 2)</b>					
42-02	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
	09-Nov-12	8.99	<1.72	412	2,180
	08-Aug-12	7.73	<1.72	400	1,830
	01-May-12	22.5	<1.72	431	2,210
	16-Feb-12	24.5	<2.17	465	2,770
	09-Nov-11	21.2	3.08	449	2,170
	02-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	
42-03	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	

**TABLE 4. 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)
42-06	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	
42-07	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	

**TABLE 4. 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)
42-08	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	
42-09	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	

**TABLE 4. 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)
42-10	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	
42-11	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	0.470	2.38	285	1,300
	1-Oct-10	0.620	<10.0	300	1,250
	27-Jun-10	3.9	<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	0.7	300	1,080	
14-Mar-09	0.90	<0.2	310	1,225	



**TABLE 4. 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)
42-12	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	
42-13	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	

**TABLE 4. 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>Dominguez</b>					
624-01	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	
624-02	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	

**TABLE 4. 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)
624-04	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	
624-05	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	

**TABLE 4. 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)
624-06	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	
624-07	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	

**TABLE 4. 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)
624-08	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	
<b>Gonzalez</b>					
177-01	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 4. 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	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	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 4. 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	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	
177-05	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 4. 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	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	
177-07	15-Mar-03	44.4	1.5	1,205	4,007
177-07R	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 4. 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	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	
74-02	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	

**TABLE 4. 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)
74-03	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	
74-04	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	

**TABLE 4. 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)
74-05	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	
<b>River Valley Dairy</b>					
167-01	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	Not Sampled				

**TABLE 4. 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)
167-01A	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	
167-02	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	

**TABLE 4. 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)	
167-03	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		
167-04	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		

**TABLE 4. 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)
167-05	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	
167-06	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	

**TABLE 4. 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)
167-07	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	
167-08	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	

**TABLE 4. 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)
167-09	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	
<b>Big Sky Dairy</b>					
833-01	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	



**TABLE 4. 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)
833-02	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	
833-03	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	

**TABLE 4. 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)
833-04	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	
833-05	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	

**TABLE 4. 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)
833-06	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	
833-07	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	

**TABLE 4. 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)
833-08	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	
833-09	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	

**TABLE 4. 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)
833-10	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	
<b>Sunset/Desert Land Dairy</b>					
257-01	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	

**TABLE 4. 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)
257-02	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	
257-03	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	

**TABLE 4. 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)
257/260-01	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	
<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-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 4. 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	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	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 Enough 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 4. 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-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-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 4. 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-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-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 4. 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-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>
<p>NOTES:</p> <p>Data suspect</p> <p>mg/l = milligrams per liter</p> <p>ND = Non-detect</p> <p>NMWQCC = New Mexico Water Quality Control Commission</p> <p>TDS = Total dissolved solids</p> <p>TKN = Total Kjeldahl nitrogen</p> <p>Highlight is at or above NMWQCC Standard</p>					

## **FIGURES**

**APPENDIX A  
SAMPLING FIELD FORMS**

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-01 Date Gauged 5-27-14  
 Site BIG SKY Time Gauged 12:30  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 0 feet Height of Fluid Column NA feet  
 Total Depth 36.41 feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged NA Purged Method NA

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

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_  
 Sample Method \_\_\_\_\_  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations 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 833-02 Date Gauged 5-27-14  
 Site Big Sky Time Gauged 10:20  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 36.3 feet Height of Fluid Column 21.44 feet  
 Total Depth 57.74 feet Volume in Well 14.1504 gallons  
 (3 Well Volumes = 42.45 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:25 5-27-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:41	36	36	21.3	3799	8.36	28	2923
10:44	1	37	20.6	3678	8.34	27	2829
10:47	1	38	20.5	3656	8.33	27	2812
10:50	1	39	20.5	3622	8.32	27	3788
10:54	1	40	20.4	3611	8.29	26	2722
10:57	1	41	20.4	3685	8.26	28	2754
11:00	1	42	20.5	3564	8.23	29	2738
11:02	.5	42.6	20.4	3546	8.22	29	2722

Actual Purge Volume 42.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:02 5-27-14 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 833-03 Date Gauged 5-27-14  
 Site Big Sky Time Gauged 11:10  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 0 feet Height of Fluid Column NA feet  
 Total Depth 62.70 feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

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**GROUNDWATER SAMPLING DATA**

Time/date Purged NA Purged Method NA

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS ±0 (mg/L)

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

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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 833-04 Date Gauged 5-29-14  
 Site Big Sky Time Gauged 8:30  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 41.93 feet Height of Fluid Column 11.76 feet  
 Total Depth 53.69 feet Volume in Well 7.7616 gallons  
 (3 Well Volumes = 23.2848 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:35 5-29-14 Purged Method Ball

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DE (mg/L)
9:03	17	17	22.0	3936	9.07	119	3051
9:06	1	18	21.8	3816	8.89	121	2939
9:09	1	19	21.8	3701	8.65	122	2846
9:11	1	20	21.7	3677	8.50	121	2826
9:14	1	21	21.7	3671	8.37	120	2822
9:17	1	22	21.6	3662	8.27	120	2814
9:19	1	23	21.3	3659	8.21	121	2810
9:20	.25	23.25	21.3	3661	8.11	121	2812

Actual Purge Volume 23.35 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:20 5-29-14 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 833-05 Date Gauged 5-29-14  
 Site Big Sky Time Gauged 9:55

Depth to PSH. \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 63.92 feet Height of Fluid Column 9.87 feet  
 Total Depth 73.79 feet Volume in Well 6.5142 gallons  
 (3 Well Volumes = 19.54 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:01 5-29-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:36	12	12	24.8	5001	8.27	112	3946
10:38	1	13	23.9	4945	8.12	115	3906
10:41	1	14	24.1	4952	7.99	117	3909
10:43	1	15	23.8	4936	7.88	118	3896
10:45	1	16	23.9	4934	7.49	117	3895
10:48	1	17	24.0	4938	7.44	118	3897
10:51	1	18	23.7	4937	7.39	118	3898
10:53	1.5	19.5	23.6	4940	7.36	117	3895

Actual Purge Volume 19.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:53 5-29-14 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 833-06 Date Gauged 5-29-14  
 Site Big Sky Time Gauged 13:40

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 73.91 feet Height of Fluid Column 11.18 feet  
 Total Depth 85.09 feet Volume in Well 7.3788 gallons  
 (3 Well Volumes = 22 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged ~~13:44~~ 13:44 5-29-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (us/cm)	pH	ORP (mV)	TDS (mg/L)
14:05	15	15	<del>17.1</del> <u>17.1</u>	3633	8.59	77	2831
14:07	1	16	<del>17.3</del> <u>17.3</u>	3598	8.42	82	2807
14:09	1	17	17.1	3638	8.21	85	2825
14:10	1	18	17.0	3656	8.13	86	2851
14:12	1	19	17.1	3678	7.99	91	2862
14:14	1	20	17.1	3688	7.94	93	2858
14:16	1	21	17.0	3697	7.82	94	2868
14:18	1	22	17.0	<del>3711</del> <u>3711</u>	7.78	97	2879

Actual Purge Volume 22 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 14:18 5-24-14 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 833-07 Date Gauged 5-29-14  
 Site BIG SKY Time Gauged 11:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 59.26 feet Height of Fluid Column 14.19 feet  
 Total Depth 73.45 feet Volume in Well 9.36 gallons  
 (3 Well Volumes = 28 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:21 5-29-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:04	21	21	24.0	6917	7.83	115	5622
12:07	1	22	23.8	6934	7.45	113	5652
12:10	1	23	23.4	6966	7.41	112	5676
12:13	1	24	23.3	6957	7.36	110	5673
12:16	1	25	23.2	6961	7.31	109	5678
12:19	1	26	23.1	6942	7.27	108	5670
12:21	1	27	23.1	6951	7.22	108	5667
12:23	1	28	23.0	6960	7.17	107	5664

Actual Purge Volume 28 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:23 5-29-14 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 833-08 Date Gauged 5-27-14  
 Site Big Sky Time Gauged 11:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 59.02 feet Height of Fluid Column 13.82 feet  
 Total Depth 72.84 feet Volume in Well 9.12 gallons  
 (3 Well Volumes = 27.36 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:21 5-27-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS mg/L
11:58	21	21	23.6	<del>4241</del> 4356	7.36	66	3382
12:01	1	22	23.5	4255	7.31	68	3311
12:04	1	23	23.3	4261	7.25	69	3308
12:07	1	24	23.1	4241	7.20	69	3296
12:11	1	25	23.2	4247	7.16	70	3299
12:14	1	26	23.1	4241	7.11	71	3297
12:17	1	27	23.2	4243	7.08	71	3300
12:18	.25	27.25	23.0	4247	7.04	72	3304

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

Time/Date Sampled 12:18 5-27-14 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 833-09 Date Gauged 5-27-14  
 Site Big Sky Time Gauged 12:26  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 25.48 feet Height of Fluid Column 13.87 feet  
 Total Depth 37.35 feet Volume in Well 4.1542 gallons  
 (3 Well Volumes = 27.46 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 12:31 5-27-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
13:02	21	21	23.4	6375	7.35 <del>7.35</del>	91	5184
13:05	1	22	22.6	6344	7.27 <del>7.27</del>	92	5144
13:08	1	23	22.4	6326	7.23 <del>7.23</del>	92	5131
13:11	1	24	22.1	6301	7.22 <del>7.22</del>	93	5108
13:13	1	25	23.4	6298	7.17 <del>7.17</del>	92	5078
13:16	1	26	23.2	6286	7.14 <del>7.14</del>	91	5084
13:18	1	27	23.1	6282	7.11 <del>7.11</del>	90	5079
13:19	.5	27.5	23.1	6279	7.09 <del>7.09</del>	90	5072 90

Actual Purge Volume 27.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:19 5-27-14 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 833-10 Date Gauged 5-29-14  
 Site BIG SKY Time Gauged 12:35

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 20.21 feet Height of Fluid Column 16.88 feet  
 Total Depth 37.09 feet Volume in Well 11.1408 gallons  
 (3 Well Volumes = 33.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:39 5-29-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:18	27	27	19.9	4266	7.32	112	3337
13:20	1	28	19.7	4238	7.28	113	3319
13:22	1	29	19.7	4236	7.25	112	3314
13:24	1	30	19.5	4240	7.22	111	3312
13:26	1	31	19.4	4231	7.19	110	3307
13:28	1	32	19.5	4243	7.17	112	3321
13:30	1	33	19.4	4248	7.11	115	3331
13:31	.5	33.5	19.3	4256	7.09	115	3342

Actual Purge Volume 33.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:31 5-29-14 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.

Company Name: TraceAnalysis, Inc.  
 D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: Victor Ayala  
 Victor Ayala  
 Invoice to (if different from above):  
 Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048  
 Project #: 441985  
 Project Name: George Segura 575-233-3620  
 Big Sky Dairy  
 Sampler Signature: JWS

Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-mail: vayala@dhpump.com

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	Turn Around Time	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH				ICE
833-9		1		X				X					5-27-14	13:17	
833-9		1		X				X					5-27-14	13:19	
833-9	B	1		X				X					12:18		
833-9	B	1		X				X					12:18		
833-9	2	1		X				X					11:02		
833-9	2	1		X				X					11:02		

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	Hold
								X	X	X	X	X	
								X	X	X	X	X	
								X	X	X	X	X	
								X	X	X	X	X	

Relinquished By: JWS Date: 5-27-14 Time: 13:37  
 Received By: D. Ziegler Date: 5-27-14 Time: 13:37  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Lab Use Only  
 Intact  N  
 Headspace  Y  N  
 Temp 12-1 11:02  
 Log-in Review \_\_\_\_\_

Remarks: ICE  
CAREY IN  
 Dry Weight Basis Required   
 TRRP Report Required



# TraceAnalysis, Inc.

155 McCurtcheon, Ste. H El Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

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](mailto:vayala@dhpump.com)  
Contact Person: Victor Ayala

Invoice to (if different from above):  
Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048  
Project #: **441985** Project Name: George Segura 575-233-3620  
Sampler Signature: *[Signature]* Big Sky Dairy

Project Location (including state):  
Big Sky Dairy, 17800 Stern Drive, 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			TIME
833-1		1	500	X				X								
833-1		1	250	X				X								
833-2		1	500	X				X								
833-2		1	500	X				X								
833-3	LAGOON	1	500	X				X								
833-3	LAGOON	1	250	X				X								
833-4		1	500	X				X								
833-4		1	500	X				X								
833-5	7	1	250	X				X								
833-5	7	1	250	X				X								
833-6		1	500	X				X								
833-6		1	250	X				X								
833-5	5	1	500	X				X								
833-5	5	1	250	X				X								
833-10	10	1	500	X				X								
833-10	10	1	250	X				X								

ANALYSIS REQUEST

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 60108/200.7  
Nitrates EPA 300  
Total Kjeldahl Nitrogen SM 4500 NORG C  
Chloride EPA 300.0  
Total Dissolved Solids SM 2540 C MOD

LAB Order ID # \_\_\_\_\_

Chain-of-Custody and Analysis Request

Page 1 of 1

Relinquished By: *[Signature]* Date: 5-27-14 Time: 14:36  
Received By: MRC TRAP Date: 5-29-14 Time: 14:36  
Date: 5-27-14 Time: 14:36  
Date: 5-29-14 Time: 14:36  
Date: 5-29-14 Time: 13:31  
Date: 5-29-14 Time: 13:11

Lab Use Only  
Intact  Y /  N  
Headspace  Y /  N  
Temp  IC /  1 /  0

Remarks: on file  
TRN analysis in *[initials]* Libeck

Dry Weight Basis Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 340-01 Date Gauged 5-14-14  
 Site BRIGHT STAR Time Gauged 12:10  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 43.5 feet Height of Fluid Column 4.2 feet  
 Total Depth 47.7 ~~56.6~~ feet Volume in Well 2.77 gallons  
 (3 Well Volumes = 8.31 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:15 5-14-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:20	2	2	21.3	4614	7.98	137	<del>3546</del> 3546
12:22	1	3	21.2	4577	8.07	134	3475
12:24	1	4	21.3	4555	8.09	130	3457
12:27	1	5	21.4	4561	8.06	131	3458
12:29	1	6	21.5	4528	8.09	130	3436
12:32	1	7	21.5	4521	8.06	130	3431
12:34	1	8	21.5	4518	8.07	129	3428
12:35	.25	8.25	21.4	4516	8.04	128	3426

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

Time/Date Sampled 12:35 5-14-14 Purged/Sampled By JW

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 340-02 Date Gauged 5-14-14  
 Site BRIGHT STAR Time Gauged \_\_\_\_\_  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 54.76 feet Height of Fluid Column 1.94 feet  
 Total Depth 56.7 feet Volume in Well 1.28 gallons  
 (3 Well Volumes = 3.84 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:07 5-14-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
<del>13:10</del>	1	1	23.0	5361	8.07	121	4025
13:12							

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 13:12 5-14-14 Purged/Sampled By JV  
 Sample Method BAIL  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations LOW ONLY PURGE 1 GALLON.

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 70/86/340-01 Date Gauged 5-14-14  
 Site BRIGHT STAR Time Gauged 10:50  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 49.9 feet Height of Fluid Column 17.79 feet  
 Total Depth 67.69 feet Volume in Well 11.74 gallons  
 (3 Well Volumes = 35.22 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:57 5-14-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:39	28	28	20.8	74.07	8.04	54	5915
11:41	1	29	20.7	74.30	7.90	63	5927
11:43	1	30	20.7	7415	7.86	68	5916
11:46	1	31	20.6	7422	7.85	72	5917
11:48	1	32	20.6	7411	7.81	75	5909
11:51	1	33	20.4	7401	7.44	78	5901
11:53	1	34	20.6	7413	7.38	82	5915
11:55	1	35		7421	7.42	85	5922

Actual Purge Volume 35 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:55 5-14-14 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 86 / 340-01 Date Gauged 5-14-14  
 Site BRIGHT STAR Time Gauged 9:32  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 56.92 feet Height of Fluid Column 14.18 feet  
 Total Depth 71.1 feet Volume in Well 9.36 gallons  
 (3 Well Volumes = 28 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:40 5-14-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:21	21	21	20.1	3857	8.65	106	2888
10:24	1	22	20	3839	8.78	97	2870
10:27	1	23	19.8	3851	8.63	104	2886
10:30	1	24	20.0	3835	8.59	106	2868
10:33	1	25	19.8	3838	8.51	107	2871
10:36	1	26	19.7	3833	8.47	106	2866
10:38	1	27	19.8	3828	8.39	106	2862
10:40	1	28	19.8	3829	8.35	104	2860

Actual Purge Volume 28 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:40 5-14-14 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

60774060000001-010-1  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

1355 W. CHINA ROAD, STE. 111

Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4844

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: [yayala@dhpump.com](mailto:yayala@dhpump.com)

Contact Person:

Victor Ayala

Invoice to (if different from above):

Bright Star Dairy, P.O. Box 167, Mesquite, NM 88048

Tim Hyde 575-233-2029

Project #:

441980

Project Name:

Bright Star Dairy

Project Location (including state):

Bright Star Dairy, 13520 Stern Drive, Mesquite, NM

Sampler Signature:

*[Signature]*

LAB #	LAB USE ONLY	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		TIME
					WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	
340-1			1		X					X	X	X			5-14-14	12:35
340-1			1		X					X	X	X			12:35	
340-2			1		X					X	X	X			13:12	
340-2			1		X					X	X	X			13:12	
70/86/340			1		X					X	X	X			11:55	
70/86/340			1		X					X	X	X			11:55	
86/340			1		X					X	X	X			10:46	
86/340			1		X					X	X	X			10:46	
340 Lagoon			1		X					X	X	X			12:45	
340 Lagoon			1		X					X	X	X			12:45	

Relinquished By: *[Signature]* Date: 5-14-14 Time: 14:35  
 Received By: *[Signature]* Date: 5-14-14 Time: 14:55  
 Received at Laboratory By: *[Signature]* Date: 5-14-14 Time: 14:55

Lab Use Only  
 Intact  Y  N  
 Headspace  Y  N  
 Temp 40 °C  
 Log-in Review

Remarks: ICE  
 Dry Weight Basis Required   
 TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-01 Date Gauged 5-20-14  
 Site BUENA VISTA II Time Gauged 11:40  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 36.68 feet Height of Fluid Column 8.61 feet  
 Total Depth 45.19 feet Volume in Well 5.6826 gallons  
 (3 Well Volumes = 17 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:45 5-20-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
12:10	10	10	26.1	4988	7.32	73	3939
12:12	1	11	25.8	5024	7.30	64	3979
12:14	1	12	25.4	5034	7.28	51	3983
12:16	1	13	25.6	5033	7.25	49	3987
12:19	1	14	24.7	5041	7.18	46	3955
12:21	1	15	24.4	5031	7.19	34	3974
12:24	1	16	24.8	5029	7.18	19	3982
12:26	1	17	24.1	5025	7.16	9	3980

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

Time/Date Sampled 12:26 5-20-14 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 74-02 Date Gauged 5-20-14  
 Site BUENA VISTA II Time Gauged 12:38  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 14.63 feet Height of Fluid Column 5.51 feet  
 Total Depth 20.14 feet Volume in Well 3.6366 gallons  
 (3 Well Volumes = 10.9 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:44 5-20-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
12:50	4	4		3672	7.21	58	2811
12:52	1	5		3677	7.20	59	2820
12:54	1	6		3647	7.18	58	2794
12:55	1	7		3643	7.16	56	2790
12:57	1	8		3656	7.13	55	2806
12:58	1	9		3658	7.12	54	2805
13:00	1	10		3656	7.09	55	2803
13:01	1	11		3650	7.03	56	2795

Actual Purge Volume 11 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:01 5-20-14 Purged/Sampled By JV

Sample Method BAIL

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

Comments/Observations THE METAL TOP FOR CASE IS BROKEN.

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 5-20-14  
 Site BOLENA VISTA II Time Gauged 13:10  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 16.33 feet Height of Fluid Column 3.83 feet  
 Total Depth 20.16 feet Volume in Well 2.5278 gallons  
 (3 Well Volumes = 7.58 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:15 5-20-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
13:18	1	1		6161	7.04	79	4950
13:20	1	2		6237	7.06	77	5053
13:23	1	3		6228	7.03	77	5059
13:25	1	4		6217	7.00	76	5063
13:27	1	5		6213	6.97	75	5045
13:29	1	6		6189	6.96	75	5018
13:32	1	7		6167	6.96	76	4991
13:33	.5	7.5		6159	6.93	76	4983

Actual Purge Volume 7.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:33 5-20-14 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 74-04 Date Gauged 5-21-14  
 Site BUCNA VISTA II Time Gauged 8:10

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 48.48 feet Height of Fluid Column 9.38 feet  
 Total Depth 57.86 feet Volume in Well 6.1908 gallons

(3 Well Volumes = 18.5724 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:15 5-21-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:43	12	12	23.6	3173	8.25	102	2416
8:46	1	13	23.6	3201	8.08	106	2427
8:49	1	14	23.5	3194	7.91	109	2423
8:52	1	15	23.4	3184	7.82	110	2413
8:55	1	16	23.2	3190	7.44	110	2416
8:57	1	17	23.1	3194	7.40	111	2420
8:59	1	18	23.1	3192	7.36	111	2422
9:01	.5	18.5	23.0	3186	7.33	113	2410

Actual Purge Volume 18.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:01 5-21-14 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 74-05 Date Gauged 5-21-14  
 Site BUENA VISTA II Time Gauged 9:12  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 39.57 feet Height of Fluid Column 17.3 feet  
 Total Depth 56.87 feet Volume in Well 11.418 gallons  
 (3 Well Volumes = 34.25 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:17 5-21-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:22	28	28	24.3	2975	7.39	86	2251
10:25	1	29	24.2	2966	7.34	86	2238
10:28	1	30	24.1	2963	7.29	85	2235
10:31	1	31	23.9	2961	7.26	85	2232
10:34	1	32	23.5	2967	7.23	85	2240
10:37	1	33	23.4	2969	7.19	84	2241
10:40	1	34	23.4	2971	7.16	85	2244
10:41	.25	34.25	23.4	2978	7.12	83	2246

Actual Purge Volume 34.25 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:41 5-21-14 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.

email: lab@traceanalysis.com

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

Company Name: DRH PETROLEUM + ENVIRONMENTAL  
 Address: (Street, City, Zip) 1221 TOWER TOWN, EL PASO, TX, 79927  
 Contact Person: VICTOR AYALA  
 Invoice to: Victor Ayala  
 (if different from above) Brown Vista Dairy #2, PO Box 346, Mesquite, NM 88048  
 Project #: 441987  
 Project Name: Brown Vista Dairy #2  
 Project Location (including state): 16710 STERN DRIVE, MESQUITE, NM  
 Sampler Signature: [Signature]

## ANALYSIS REQUEST

(Circle or Specify Method No.)

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
	74-01	1	500	X				X		X			5/20/11	12:26	
	74-01	1	250	X				X		X			12/26		X
	74-02	1	500	X				X		X			13/01		X
	74-02	1	250	X				X		X			13/01		X
	74-03	1	500	X				X		X			13/33		X
	74-03	1	250	X				X		X			13/37		X
	74-LAGCON	1	500	X				X		X			17:50		X
	74-LAGCON	1	250	X				X		X			17:50		X

REMARKS: 11E

LAB USE ONLY

Relinquished by: [Signature] Company: DRH Date: 5-20-11 Time: 14:30  
 Received by: Drinking Water Lab Company: DRH Date: 5-20-11 Time: 14:30

Relinquished by: [Signature] Company: DRH Date: 5-20-11 Time: 14:30  
 Received by: Drinking Water Lab Company: DRH Date: 5-20-11 Time: 14:30

Relinquished by: [Signature] Company: DRH Date: 5-20-11 Time: 14:30  
 Received by: Drinking Water Lab Company: DRH Date: 5-20-11 Time: 14:30

Carrier # 11E

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

CHART COPY

Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

1000 Independence, Ste. 111  
Paso, TX 79832  
Tel (915) 585-3443  
Fax (915) 585-4844

Page 1 of 1  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:

D&H Petroleum & Environmental Services

Address: (Street, City, Zip)

1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person:

Victor Ayala

Invoice to (if different from above):

Buena Vista Dairy #2, P.O. Box 346, Mesquite, NM 88048

Project #: 441967

Project Name:

Buena Vista Dairy #2

Sampler Signature: *July*

Project Location (including state):

Buena Vista Dairy #2, 16910 Stern Drive, Mesquite, NM

Phone #: 915-859-8150

Cell #:

Fax #:

E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

Fernie 575-233-4646

Project Name:

Buena Vista Dairy #2

Sampler Signature: *July*

Project Location (including state):

Buena Vista Dairy #2, 16910 Stern Drive, Mesquite, NM

LAB #	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	ICF			NONE
74-1		1		X											
74-1		1		X											
74-2		1		X											
74-3		1		X											
74-4		1	500	X										5-21-14	9:01
74-4		1	250	X											9:01
74-5		1	500	X											10:41
74-5		1	250	X											10:41
74-6		1		X											
74-6		1		X											
74-7		1		X											
74-7		1		X											
74-8		1		X											
74-9		1		X											
74-10		1		X											
74-11		1		X											
74-12		1		X											
74-13		1		X											
74-14		1		X											
74-15		1		X											
74-16		1		X											
74-17		1		X											

Relinquished By: *July* Date: 5-21-14 Time: 14:25  
 Received By: *MCA* Date: 5-21-14 Time: 14:25  
 Relinquished By: *MCA* Date: 5/21/14 Time: 16:30  
 Received at Laboratory By: *MCA* Date: 5-21-14 Time: 14:25

LAB Order ID #	ANALYSIS REQUEST	Turn Around Time
MTBE 8021B/602	PAH 8270C	
BTEX 8021B/602	TX 1005 Extended (C35)	
	TPH 418.1 / TX1005	
	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	

Remarks: *on file*  
*TKN analysis in subpack 4*  
 Dry Weight Basis Required  
 TRRP Report Required

Lab Use Only	Time
Initial	Y/N
Headspace	Y/N
Temp	Y/N
Log-in Review	Y/N

3701 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

155 McCutcheon, Ste. H E  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name: D&H Petroleum & Environmental Services

Phone #: 915-859-8150

Cell #:

Address: (Street, City, Zip)

Fax #:   
E-mail: [vajala@dhpump.com](mailto:vajala@dhpump.com)

Contact Person:

Victor Ayala

Invoice to (if different from above):

Dona Ana Dairies, PO Box 10, Mesquite, NM 88048

Linda Armstrong 575-233-3620

Project #:

441968

Project Name:

Dona Ana Dairies Consortium

Sampler Signature:

*[Signature]*

Project Location (including state):  
Various Dairies, Dona Ana County, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		ANALYSIS REQUEST		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE		DATE	TIME
	DAD-7	1	500	X						X			6-12-14	8:42	MTBE 8021B/602	
	DAD-7	1	250	X						X			6-12-14	8:42	BTEX 8021B/602	
		1		X						X					TPH 418.1 / TX1005	
		1		X						X					TX 1005 Extended (C35)	
		1		X						X					PAH 8270C	
		1		X						X					PAH 8270 (Low Level Analysis)	
		1		X						X					Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7	
		1		X						X					Nitrates EPA 300	
		1		X						X					TKN SM 4500 NORG C	
		1		X						X					Chloride EPA 300	
		1		X						X					Total Dissolved Solids SM 2540 C MOD	
		1		X						X						
		1		X						X						
		1		X						X						
		1		X						X						
		1		X						X						
		1		X						X						
		1		X						X						
		1		X						X						
		1		X						X						
		1		X						X						
		1		X						X						
		1		X						X						
		1		X						X						

Relinquished By: JWG Date: 6-12-14 Time: 9:15

Received By: NRE TAEP Date: 6-12-14 Time: 9:15

Relinquished By: NRE TAEP Date: 6-12-14 Time: 16:30

Received at Laboratory By: NRE TAEP Date: 6-12-14 Time: 9:15

Lab Use Only: Intact  Y /  N

Headspace Y /  N

Temp 39.2

Log-In Review

Dry Weight Basis Required

TRPP Report Generated

Remarks: TKN analysis in duplicate

Turn Around Time

Hold

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID DAD-7 Date Gauged 6-12-14  
 Site \_\_\_\_\_ Time Gauged 8:20  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 91.94 feet Height of Fluid Column 8.11 feet  
 Total Depth 100.05 feet Volume in Well 1.3787 gallons  
 (3 Well Volumes = 4.13 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 8:26 6-12-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:30	1	1	25.0	3019	8.68	109	2264
8:34	1	2	24.9	3015	8.46	113	2260
8:38	1	3	24.5	3013	8.22	116	2257
8:41	1	4	24.3	3019	8.13	119	2262
8:42	25	4.25	24.0	3015	8.02	120	2260

Actual Purge Volume 4.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 8:42 6-12-14 Purged/Sampled By JV

Sample Method Bail

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

Comments/Observations THE LOCKER WAS JAMMED WITH PAINT, HAD TO BE CUT.

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-1 Date Gauged 6-2-14  
 Site DEL ORG Time Gauged 11:35  
 Depth to PSH NA feet Well Diameter \_\_\_\_\_ inches  
 Depth to Water 60.82 feet Height of Fluid Column NA feet  
 Total Depth PUMP NA feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:48 6-2-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:50	1	1	25.4	4165	7.41	131	3199
11:52	1	2	25.4	4169	7.36	130	3204
11:53	1	3	25.5	4172	7.31	132	3206
11:54	1	4	25.3	4176	7.29	125	3212
11:55	1	5	25.2	4178	7.32	133	3217

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:55 6-2-14 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 692-02 Date Gauged 5-29-14  
 Site DEL ORO Time Gauged 11:23  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 58.48 feet Height of Fluid Column 8.4 feet  
 Total Depth 66.88 feet Volume in Well 5.544 gallons  
 (3 Well Volumes = 16.63 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:28 5-30-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:54	10	10	25.9	5185	7.09	86	4055
11:57	1	11	24.5	5207	7.0	92	4101
11:59	1	12	23.4	5239	6.95	93	4163
12:03	1	13	23.3	5224	6.92	92	4149
12:06	1	14	23.4	5213	6.89	91	4133
12:09	1	15	23.2	5206	6.86	92	4136
12:12	1	16	23.1	5221	6.82	93	4146
12:15	.75	16.75	23.1	5238	6.74	96	41651

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

Time/Date Sampled 12:15 5-30-14 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 692-04 Date Gauged 5-30-14  
 Site Del Oro Time Gauged 10:57  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 59.58 feet Height of Fluid Column .97 feet  
 Total Depth 60.55 feet Volume in Well .582 gallons  
 (3 Well Volumes = 1.74 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 11:02 5-30-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:14	1	1	25.6	3308	7.27	90	2504
	.75	1.75					

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 11:14 5-30-14 Purged/Sampled By JV  
 Sample Method Bail  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations WELL HAD A LOT OF SILT. HAD DIFFICULT TIME PURGING.

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 692-5 Date Gauged 6-2-14

Site DHL ORO Time Gauged 12:20

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

Depth to Water 80.85 feet Height of Fluid Column NA feet

Total Depth PUMP feet Volume in Well NA gallons

(3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged <sup>12:50</sup> ~~12:27~~ 6-2-14 Purged Method PUMP

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	<sup>TDS</sup> DO (mg/L)
12:22	1	1	30.3	2358	6.71	74	1711
12:55	1	2	30.2	2350	6.66	70	1707
	1	3					
	1	4					
	1	5					

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

Time/Date Sampled 12:55 6-2-14 Purged/Sampled By JV

Sample Method PUMP

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

Comments/Observations HAD TO WAIT SO WATER CAN REFILL

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 692-06 Date Gauged 6-2-14  
 Site Del Oro Time Gauged 9:25  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 81.86 feet Height of Fluid Column 10.17 feet  
 Total Depth 92.03 feet Volume in Well 6.7122 gallons  
 (~~92.03~~)  
 (3 Well Volumes = 20.13 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:31 6-2-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:12	13	13	23.4	2327	9.02	123	1705
10:15	1	14	23.3	2328	8.64	118	1710
10:18	1	15	23.1	2332	8.47	117	1712
10:21	1	16	23.1	2324	8.34	117	1706
10:24	1	17	23.0	2322	8.24	119	1702
10:27	1	18	23.1	2320	8.05	122	1700
10:30	1	19	22.9	2329	7.91	124	1707
10:33	1	20	22.9	2324	7.85	124	1703

Actual Purge Volume 20 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:33 6-2-14 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 692-7 Date Gauged 6-2-14  
 Site Den ORU Time Gauged 10:53  
 Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches  
 Depth to Water 73.72 feet Height of Fluid Column NA feet  
 Total Depth Pump NA feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:30 6-2-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:33	1	1	27.1	2607	6.51	83	1912
	1	2					
	1	3					
	1	4					
	1	5					

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:33 6-2-14 Purged/Sampled By \_\_\_\_\_

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

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

Comments/Observations 10:56 NOT ENOUGH WATER PURGED TO TAKE READING  
OR POU SAMPLE. 12:27 - RETURNED TO TRY AND COLLECT 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

10144

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-8 Date Gauged 6-2-14  
 Site Del Oro Time Gauged 11:07  
 Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches  
 Depth to Water 68.39 feet Height of Fluid Column NA feet  
 Total Depth PUMP feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:11 ~~11:11~~ 6-2-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:13	1	1	26.0	2259	4.84	310	1626
11:15	1	2	25.8	2197	5.30	74	1579
11:16	1	3	25.7	2184	5.34	76	1572
11:17	1	4	25.7	2180	5.39	72	1569
11:19	1	5	25.5	2176	5.42	77	1566

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:19 6-2-14 Purged/Sampled By JW

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 692-9 Date Gauged 6-2-14  
 Site Del Ave Time Gauged 13:13  
 Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches  
 Depth to Water 91.46 feet Height of Fluid Column NA feet  
 Total Depth Pump feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:18 6-2-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:21		1	28.3	2245	6.50	75	1633
13:28		2	28.5	2252	6.51	74	1637
13:33		3	28.6	2260	6.55	73	1641
		4					
		5					

Actual Purge Volume 3 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:33 6-2-14 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

6701 Aberdeen, Ste. 9 Lubbock, TX 79424 Tel (806) 794-1296 Fax (806) 794-1298

**TraceAnalysis, Inc.**

Company Name: D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
 Contact Person: Victor Ayala  
 Phone #: 915-859-8150 Cell #: 915-859-8150  
 Fax #: 915-859-8150 E-mail: vajala@dhppump.com

Project Location (including state): Del Oro Dairy, 1025 East O'Hara, Anthony, NM

Project Name: Del Oro Dairy  
 Sampler Signature: *Jwb*

Invoice to (if different from above): Jerry Settles 575-882-4331  
 Del Oro Dairy, PO Box 1846, Anthony, TX 88021

LAB Order ID #

ANALYSIS REQUEST

LAB USE ONLY	LABORATORY USE ONLY
MTBE 8021B/602	TX 1005 Extended (C35)
BTEX 8021B/602	PAH 8270C
TPH 418.1 / TX1005	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

Remarks: ICE  
 Lab Use Only  
 Intact Y / N  
 Headspace Y / N  
 Temp 12-11-11-02  
 Dry Weight Basis Required  
 I n Review

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		
692-01		1	500	X						X						5-30-14	12:15
692-02		1	250	X						X							12:15
692-03		1	500	X						X							11:14
692-04		1	250	X						X							11:14
692-05		1		X						X							
692-06		1		X						X							
692-07		1		X						X							
692-08		1		X						X							
692-09		1		X						X							
692-10		1		X						X							
692-11		1		X						X							
692-12		1		X						X							
692-13		1		X						X							
692-14		1		X						X							
692-15		1		X						X							

Relinquished By: *Jwb* Date: 5-30-14 Time: 12:45  
 Received at Laboratory By: *Djw* Date: 5-30-14 Time: 12:45



LAB Order ID # \_\_\_\_\_

Company Name: \_\_\_\_\_ Phone #: 915-859-8150

D&H Petroleum & Environmental Services Cell #: \_\_\_\_\_

Address: (Street, City, Zip) \_\_\_\_\_ Fax #: \_\_\_\_\_

1221 Tower Trail Ln, El Paso TX 79907 E-mail: vajala@dhpump.com

Contact Person: \_\_\_\_\_

Victor Ayala

Project #: 441983

Project Name: Del Oro Dairy

Project Location (including state): Del Oro Dairy, 1025 East O'Hara, Anthony, NM

Sampler Signature: [Signature]

Project #: \_\_\_\_\_ Jerry Settles 575-882-4331

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

Project Location (including state): \_\_\_\_\_

Sampler Signature: \_\_\_\_\_

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
692-01		1	500	X				X	X	X	X	X		6-2-14	11:55
692-01		1	250	X				X	X	X	X	X			11:55
<del>692-02</del>		<del>1</del>	<del>500</del>	<del>X</del>				<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>			
<del>692-03</del>		<del>1</del>	<del>500</del>	<del>X</del>				<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>			
<del>692-04</del>		<del>1</del>	<del>500</del>	<del>X</del>				<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>			
692-05		1	500	X				X	X	X	X	X		12:55	
692-05		1	250	X				X	X	X	X	X		12:55	
692-06		1	500	X				X	X	X	X	X		10:33	
692-06		1	250	X				X	X	X	X	X		10:33	
692-07	LAGOON	1	500	X				X	X	X	X	X		10:46	
692-07	LAGOON	1	250	X				X	X	X	X	X		10:46	
692-08		1	500	X				X	X	X	X	X		11:19	
692-08		1	250	X				X	X	X	X	X		11:19	
692-09		1	500	X				X	X	X	X	X		13:33	
692-09		1	250	X				X	X	X	X	X		13:33	

Relinquished By: [Signature] Date: 6-2-14 Time: 14:45

Received By: [Signature] Date: 6-2-14 Time: 14:45

Relinquished By: [Signature] Date: 6-2-14 Time: 16:30

Received at Laboratory By: [Signature] Date: 6-2-14 Time: 14:45

Lab Use Only: Intact Y/N

Headspace Y/N

Temp 10.0 °C

Loc-in Review

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

Turn Around Time \_\_\_\_\_

Phosphorus SM 4500 \_\_\_\_\_

Total Kjeldahl Nitrogen SM 4500 NORG C \_\_\_\_\_

Total Dissolved Solids SM 2540 C MOD \_\_\_\_\_

Sulfate EPA Method 300.0 \_\_\_\_\_

Chloride EPA Method 300.0 \_\_\_\_\_

Nitrate as Nitrogen EPA 300.0 \_\_\_\_\_

Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7 \_\_\_\_\_

PAH 8270 (Low Level Analysis) \_\_\_\_\_

PAH 8270C \_\_\_\_\_

TX 1005 Extended (C35) \_\_\_\_\_

TPH 418.1 / TX1005 \_\_\_\_\_

BTEX 8021B/602 \_\_\_\_\_

MTBE 8021B/602 \_\_\_\_\_

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9  
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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 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

## ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE	BTEX	TPH	TPH	PAH	Total Metals	TCLP Metals	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol.	GC/MS Semi.	PCBs	Pesticides	BOD, TSS, PH	Moisture Content	Na, Ca, Mg, K, TDS, EC	Turn Around Time
8021 / 602 / 8260 / 624	8021 / 602 / 8260 / 624	418.1 / TX1005 / TX1005 EX(C35)	8015 GRO / DRO / TVHC	8270 / 625	Ag As Ba Cd Cr Pb Se Hg 6010/200.7	Ag As Ba Cd Cr Pb Se Hg				8260 / 624	8270 / 625	8082 / 608	8081 / 608				

### LAB USE ONLY

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
<i>JUV</i>	D-11	6.2.14	14:15	<i>JUV</i>			

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX	PRESERVATIVE METHOD						DATE	SAMPLING TIME
					HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE		
	692-07	1	50	WATER	X		X			X	6/11/12 3:33	
	692-07	1	20	WATER	X		X			X	6/21/12 3:33	

Project Name: *W-11*  
 Project Location (including state): *D-11*  
 Sampler Signature: *JUV*  
 Intact  / N  
 Headspace Y/N/NA  
 Log-in-Review   
 Dry Weight Basis Required   
 TRRP Report Required   
 Check If Special Reporting Limits Are Needed   
 Carrier # *CA 117*

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.  
**CHAR1 COPY**

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-02 Date Gauged 5-21-14  
 Site Dominguez II Time Gauged 12:20  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 26.72 feet Height of Fluid Column NA feet  
 Total Depth Pump feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:24 5-21-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:26	1	1	18.5	3449	7.32	75	2657
12:28	1	2	18.9	3438	7.35	71	2651
12:30	1	3	19.1	3427	7.31	70	2643
12:32	1	4	19.0	3420	7.29	69	<del>2638</del>
12:34	1	5	18.8	3413	7.30	67	2632

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%   
 Time/Date Sampled 12:34 5-21-14 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 5-21-14  
 Site Dominwell II Time Gauged 11:15

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 85.27 feet Height of Fluid Column NA feet  
 Total Depth Pump feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:21 5-21-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:23	1	1	26.1	5561	6.95	62	4426
11:25	1	2	25.7	5558	6.89	61	4419
11:27	1	3	25.5	5551	6.85	59	4414
11:29	1	4	24.9	5547	6.82	57	4411
11:31	1	5	24.6	5540	6.81	55	4407

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:31 5-21-14 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 42-06 Date Gauged 5-21-14  
 Site Dominguez II Time Gauged ~~13:28~~ 13:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water ~~34.5~~ 34.5 feet Height of Fluid Column NA feet  
 Total Depth Pump feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:28 5-21-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:30	1	1	23.8	3554	7.23	69	2674
13:32	1	2	22.4	3574	7.25	66	2743
13:35	1	3	22.3	3545	7.27	62	2709
13:37	1	4	22.3	3551	7.29	60	2701
13:39	1	5	22.1	3556	7.30	58	2699

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:39 5-21-14 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 5-22-14  
 Site DOMINGUEZ II Time Gauged 10:32  
 Depth to PSH 0 feet Well Diameter 4 inches  
 Depth to Water 0 feet Height of Fluid Column NA feet  
 Total Depth PUMP feet Volume in Well NA gallons  
 (3 Well Volumes = NA 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)	TDS 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 42-06 Date Gauged 5-21-14  
 Site Dominion II Time Gauged 12:45

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 30.71 feet Height of Fluid Column NA feet  
 Total Depth Pump feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:58 5-21-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	<sup>TDS</sup> DO (mg/L)
13:00	1	1	23.3	2417	7.34	91	1776
13:02	1	2	21.5	2428	7.32	82	1793
13:03	1	3	21.0	2432	7.38	80	1797
13:05	1	4	20.9	2434	7.40	81	1801
13:07	1	5	20.8	2439	7.39	79	1803

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:07 5-21-14 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 42-9 Date Gauged 5-22-14  
 Site Dominica II Time Gauged 10:39  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 49.89 feet Height of Fluid Column NA feet  
 Total Depth Pump feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:46 5-22-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:48	1	1	19.2	4733	8.41	515	3832
10:51	1	2	18.7	4678	8.05	519	3730
10:53	1	3	18.2	4605	7.92	520	3665
10:55	1	4	19.1	4596	7.88	522	3650
10:58	1	5	19.0	4588	7.81	523	3641

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:58 5-22-14 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 42-10 Date Gauged 5-22-14  
 Site DOMINGUEZ II Time Gauged 12:03

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 115.1<sup>b</sup> feet Height of Fluid Column NA feet  
 Total Depth NA feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:10 5-22-14 Purged Method PUMP

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
12:13	1	1	26.7	2196	8.89	533	1390
12:15	1	2	26.3	2349	7.00	54	1711
12:17	1	3	26.9	2333	7.10	46	1701
12:19	1	4	27.1	2328	7.06	44	1699
12:21	1	5	27.3	2321	7.02	43	1696

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:21 5-22-14 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 42-11 Date Gauged 5-22-14  
 Site Diamond Lake II Time Gauged 11:18  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 125.30 feet Height of Fluid Column NA feet  
 Total Depth NA feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:16 5-22-14 Purged Method PUMP

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:16	1	1	24.7	1983	7.40	76	<del>1412</del> 1412
11:20	1	2	25.3	1946	7.34	84	1415
11:22	1	3	26.4	1980	7.24	40	1423
11:25	1	4	27.2	1962	7.23	40	1354
11:27	1	5	27.3	1910	7.24	41	1366

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:27 5-22-14 Purged/Sampled By JV

Sample Method ~~Pump~~ 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 42-12 Date Gauged 5-22-14  
 Site Dominquez II Time Gauged 11:37  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 131.67 feet Height of Fluid Column NA feet  
 Total Depth NA feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 11:44 5-22-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:46	1	1	21.1	2063	8.18	53	1533
11:48	1	2	23.4	1822	7.45	78	1306
11:50	1	3	26.4	1872	7.34	530	1334
11:52	1	4	26.9	1879	7.29	514	1339
11:53	1	5	27.1	1889	7.26	525	1346

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:55 5-22-14 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 42-13 Date Gauged 5-22-14  
 Site DOMINGUEZ II Time Gauged 10:07  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 58.01 feet Height of Fluid Column NA feet  
 Total Depth Pump feet Volume in Well NA gallons  
 (3 Well Volumes = NA gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:12 5-22-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS <del>DO</del> (mg/L)
10:14	1	1	21.5	5194	8.17	499	4136
10:16	1	2	21.7	5203	7.86	-91	4148
10:18	1	3	21.9	5211	7.83	-93	4154
10:21	1	4	22.1	5219	7.82	-95	4159
10:23	1	5	22.3	5223	7.78	-96	4165

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:23 5-22-14 Purged/Sampled By Jr

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

# TraceAnalysis, Inc.

Passo, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Phone #: 915-859-8150  
Cell #:  
Fax #:  
E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

Company Name:  
D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person:  
Victor Ayala

Invoice to (if different from above):  
Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048  
Project Name:  
Dominguez Dairy #2  
Sampler Signature: *Jay*

Project #: 441971  
Project Location (including state):  
Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				DATE	SAMPLING TIME	Turn Around Time	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>				NaOH
42-2		1	500	X				X				5-21-19	12:34	
42-2		1	250	X				X					12:34	
42-3		1	500	X				X				11:31		
42-3		1	250	X				X				11:31		
42-6		1	500	X				X				13:39		
42-6		1	250	X				X				13:39		
42-7		1		X				X						
42-7		1		X				X						
42-8		1	500	X				X				13:07		
42-8		1	250	X				X				13:07		
42-9		1		X				X						
42-9		1		X				X						
42-10		1		X				X						
42-10		1		X				X						
42-11		1		X				X						
42-11		1		X				X						
42-11		1		X				X						
42-11		1		X				X						

ANALYSIS REQUEST											
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										
Total Kjeldahl Nitrogen SM 4500 NORGC	X										
Chloride EPA 300.0	X										
Total Dissolved Solids SM 2540 C MOD	X										

Relinquished By: *Jay* Date: 5-21-19 Time: 14:25  
 Relinquished By: \_\_\_\_\_ Date: 5-21-19 Time: 16:30  
 Received at Laboratory By: *MKE* Date: 5-21-19 Time: 14:25  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Lab Use Only  
 Intact Y/N  
 Headspace Y/N  
 Temp *102*  
 Log-in Review \_\_\_\_\_  
 Remarks: *on jar*  
*TKN analysis in jarhead*  
 Dry Weight Basis Required   
 TRRP Report Required

7070 Piedmont, Ste. 11  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # \_\_\_\_\_

Company Name: \_\_\_\_\_  
D&H Petroleum & Environmental Services  
Address: (Street, City, Zip) \_\_\_\_\_  
1221 Tower Trail Ln., El Paso, Texas 79907  
Contact Person: \_\_\_\_\_  
Victor Ayala

Phone #: 915-859-8150  
Cell #: \_\_\_\_\_  
Fax #: \_\_\_\_\_  
E-mail: vayala@dhpump.com

Invoice to (if different from above): \_\_\_\_\_  
Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048  
Project #: 411971  
Project Name: \_\_\_\_\_  
Dominguez Dairy #2  
Sampler Signature: JLS

Project Location (including state): \_\_\_\_\_  
Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					DATE	SAMPLING TIME	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE				NONE
42-2		1		X				X				X				
42-3		1		X				X				X				
42-4		1		X				X				X				
42-5		1		X				X				X				
42-6		1		X				X				X				
42-7		1		X				X				X				
42-8		1		X				X				X				
42-9		1	500	X				X				X				
42-10		1	250	X				X				X				
42-11		1	500	X				X				X				
42-12		1	250	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	X
Nitrates EPA 300	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	

Relinquished By: JLS Date: 5-22-14 Time: 14:20  
 Received By: D-J Date: 5-22-14 Time: 14:20  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Remarks: ICE  
 Lab Use Only: Intact Y / N  
 Headspace Y / N/A  
 Temp 18.2 / 4/4  
 Log-in Review \_\_\_\_\_  
 Dry Weight Basis Required \_\_\_\_\_  
 TRRP Report Required \_\_\_\_\_

TraceAnalysis, Inc.  
 Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

Company Name:  
 D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person:  
 Victor Ayala  
 E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

Phone #: 915-859-8150  
 Cell #:  
 Fax #:  
 E-mail:

Project Name:  
 Isaac Dominguez 575-649-7040  
 Dominguez Dairy #2

Project Location (including state):  
 Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM

Project #: 44/971  
 Sampler Signature: *July*

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
42-12		1	500	X					X			5-22-14	11:55
42-12		1	250	X					X			11:55	11:55
42-13		1	500	X					X			10:23	10:23
42-13		1	250	X					X			10:23	10:23
42 Lagoon		1	500	X					X			9:59	9:59
42 Lagoon		1	250	X					X			9:59	9:59

Relinquished By: *July* Date: 5-22-14 Time: 14:20  
 Received By: *D-764H* Date: 5-22-14 Time: 14:20  
 Relinquished By: Date: Time:  
 Received at Laboratory By: Date: Time:

Lab Use Only  
 Intact  N/A  
 Headspace  Y  N  
 Temp *12.2*  *4/4*  C  
 Log-in Review

Remarks: *ICE*  
 Dry Weight Basis Required  
 TRRP Report Required

Page 2 of 2  
 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
 LAB Order ID #

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
								X	X	X	X		
								X	X	X	X		
								X	X	X	X		
								X	X	X	X		

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-01 Date Gauged 5-20-14  
 Site DAMNIGUEZ Time Gauged 9:35

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 27.43 feet Height of Fluid Column 19.27 feet  
 Total Depth 46.7 feet Volume in Well 12.7182 gallons  
 (3 Well Volumes = 38.15 gallons)

9:41 GROUNDWATER SAMPLING DATA

Time/date Purged ~~9:41~~ 5-20-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:19	31	31	22.2	5326	7.06	120	4252
10:21	1	32	22.0	5403	7.03	120	4318
10:23	1	33	21.9	5354	6.98	118	4290
10:25	1	34	21.7	5358	6.97	116	4283
10:27	1	35	21.4	5367	6.95	114	4287
10:29	1	36	21.2	5354	6.93	112	4282
10:31	1	37	21.1	5356	6.91	110	4280
10:33	1	38	21.0	5350	6.89	108	4270

Actual Purge Volume 30 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:33 5-20-14 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 624-02 Date Gauged 5-20-14  
 Site DOMINGUEZ Time Gauged 8:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 19.11 feet Height of Fluid Column 18.31 feet  
 Total Depth 37.45 feet Volume in Well 12.1044 gallons  
 (3 Well Volumes = 36.31 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:21 5-20-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
9:12	30	30	19.6	5347	7.23	119	4312
9:14	1	31	19.5	5298	7.21	114	4257
9:16	1	32	19.7	5233	7.27	107	4225
9:18	1	33	19.9	5194	7.25	98	4212
9:20	1	34	19.8	5189	7.32	96	4224
9:22	1	35	19.7	5173	7.29	94	4221
9:24	1	36	19.6	5168	7.27	93	4217
9:25	.25	36.25	19.7	5160	7.24	91	4211

Actual Purge Volume 36.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:25 5-20-14 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 624-04 Date Gauged 5-20-14

Site DOMINGUEZ Time Gauged 7:49

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

Depth to Water 0 feet Height of Fluid Column NA feet

Total Depth 17.5 feet Volume in Well NA gallons

(3 Well Volumes = NA 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)	TDS 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 ga/ft

**MONITOR WELL DEVELOPMENT FIELD FORM**

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**FLUID LEVEL DATA**

Well ID 624-05 Date Gauged 5-20-14  
 Site Dominquez Time Gauged 7:57  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 0 feet Height of Fluid Column NA feet  
 Total Depth 17.4 feet Volume in Well NA gallons  
 (3 Well Volumes = NA 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)	TDS 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**

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**FLUID LEVEL DATA**

Well ID 624-06 Date Gauged 5-20-14  
 Site DOMINGUEZ Time Gauged 7:40  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 0 feet Height of Fluid Column NA feet  
 Total Depth 52.23 feet Volume in Well NA gallons  
 (3 Well Volumes = NA 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)	TDS 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.

---

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 024-07 Date Gauged 5-20-14  
 Site DOMINGUEZ Time Gauged 7:30  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 55.63 feet Height of Fluid Column .07 feet  
 Total Depth 55.7 feet Volume in Well .0462 gallons  
 (3 Well Volumes = .1386 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)	TDS <del>DO</del> (mg/L)

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

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

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

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

Comments/Observations THERE IS NOT ENOUGH WATER TO PURGE

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 624-08 Date Gauged 5-20-19  
 Site Dominquez Time Gauged 8:06

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 0 feet Height of Fluid Column NA feet  
 Total Depth 14.4 feet Volume in Well NA gallons  
 (3 Well Volumes = NA 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)	TDS 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.

# Trace Analysis, Inc.

Passo, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Phone #: 915-859-8150  
Cell #:   
Fax #:   
E-mail: [yalala@dhpump.com](mailto:yalala@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): Dominguez Dairy #1, PO Box 21, Mesquite, NM 88048

Project #: 441969

Project Location (including state): Dominguez Dairy #1, 13950 Stern Dr., Mesquite, NM

Project Name: Isaac Dominguez 575-649-7040  
Dominguez Dairy #1  
Sampler Signature: *AY*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD						DATE	TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE		
624-01		1	500	X				X					5-20-14	10:33	
624-01		1	250	X				X					5-20-14	10:33	
624-02		1	500	X				X					5-20-14	9:25	
624-02		1	250	X				X					5-20-14	9:25	
624-04		1		X				X							
624-04		1		X				X							
624-05		1		X				X							
624-05		1		X				X							
624-06		1		X				X							
624-06		1		X				X							
624-07		1		X				X							
624-07		1		X				X							
624-08		1		X				X							
624-08		1		X				X							
624 Lagoon		1	500	X				X					5-20-14	10:50	
624 Lagoon		1	250	X				X					5-20-14	10:50	

Relinquished By: *AY* Date: 5-20-14 Time: 14:30

Received By: *Denny A. H.* Date: 5-20-14 Time: 14:30

Relinquished By: *AY* Date: 5-20-14 Time: 14:30

Received at Laboratory By: *Denny A. H.* Date: 5-20-14 Time: 14:30

Lab Use Only  
Intact  N  
Headspace  /   
Temp 110°C  
Log-in Review

ANALYSIS REQUEST	Remarks:
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	
Hold	

Dry Weight Basis Required   
TRRP Report Required   
Page 1 of 1

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DND-1 Date Gauged 6-3-14  
 Site \_\_\_\_\_ Time Gauged 8:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 71.53 feet Height of Fluid Column 4.67 feet  
 Total Depth 76.2 feet Volume in Well .7939 gallons  
 (3 Well Volumes = 2.38 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:20 6-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:23	1	1	25.6	2867	7.83	110	2142
8:26	1	2	25.7	2869	7.34	112	2147
8:27	.5	2.5	25.6	2852	7.26	113	2128

Actual Purge Volume 2.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 8:27 6-3-14 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-2 Date Gauged 6-3-14  
 Site \_\_\_\_\_ Time Gauged 8:45  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 66.05 feet Height of Fluid Column 2.02 feet  
 Total Depth 68.05 feet Volume in Well 3434 gallons  
 (3 Well Volumes = 1.0 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:51 6-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DE (mg/L)
8:56	1	1	25.2	2532	7.25	117	1866

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 8:56 6-3-14 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-03 Date Gauged 9:05  
 Site \_\_\_\_\_ Time Gauged 6-9-14  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 13.21 feet Height of Fluid Column 4.25 feet  
 Total Depth 17.46 feet Volume in Well .7725 gallons  
 (3 Well Volumes = 2.16 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:11 6-9-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS <del>DO</del> (mg/L)
9:13	1	1	21.4	4756	8.56	116	3750
9:15	1	2	21.2	4776	8.32	106	3762
9:16	.25	2.25	21.1	4766	8.22	91	3751

Actual Purge Volume 2.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:16 6-9-14 Purged/Sampled By JV

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

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

Comments/Observations HAD TO BREAK ROOTS. COULD ONLY GET  
DOWN TO TD-17.46

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-4 Date Gauged 6-3-14

Site \_\_\_\_\_ Time Gauged 9:20

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

Depth to Water 17.41 feet Height of Fluid Column .77 feet

Total Depth 18.18 feet Volume in Well .1309 gallons

(3 Well Volumes = .39 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:25 6-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
<u>9:36</u>	<u>.5</u>	<u>.5</u>	<u>23.1</u>	<u>4432</u>	<u>6.94</u>	<u>-118</u>	<u>3407</u>

Actual Purge Volume .5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:36 6-3-14 Purged/Sampled By JV

Sample Method BAIL

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

Comments/Observations TOOK A WHILE TO PURGE WATER, THERE WAS A LOT OF SAND IN WELL.

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-5 Date Gauged 6-3-14  
 Site \_\_\_\_\_ Time Gauged 10:10  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 17.29 feet Height of Fluid Column 6.2 feet  
 Total Depth 23.49 feet Volume in Well 1.054 gallons  
 (3 Well Volumes = 3.162 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:15 6-2-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (us/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:18	1	1	20.8	3468	7.30	47	2673
10:20	1	2	19.2	3337	7.33	45	2562
10:23	1	3	18.6	3206	7.32	44	2451
10:24	.25	3.25	18.3	3111	7.31	44	2366

Actual Purge Volume 3.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 10:24 6-3-14 Purged/Sampled By JV  
 Sample Method BAIL  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-06 Date Gauged 6-3-14  
 Site \_\_\_\_\_ Time Gauged 13:28  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 0 feet Height of Fluid Column NA feet  
 Total Depth 83.54 feet Volume in Well NA gallons  
 (3 Well Volumes = NA 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)	TDS <del>DO</del> (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 DAD-08 Date Gauged 6-4-14  
 Site \_\_\_\_\_ Time Gauged 12:03  
 Depth to PSH 0 feet Well Diameter 2 inches  
 Depth to Water 53.93 feet Height of Fluid Column 1.69 feet  
 Total Depth 55.57 feet Volume in Well .28 gallons  
 (3 Well Volumes = .83 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:05 / 6-4-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (ppm) DO (mg/L)
12:25	1	1	27.6	8795	6.69	145	7290

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 1230 / 6-4-14 Purged/Sampled By [Signature]  
 Sample Method Bailer  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations Slow water recovery in well

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-09 Date Gauged 6-4-14  
 Site \_\_\_\_\_ Time Gauged 1348  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 56.04 feet Height of Fluid Column 5.76 feet  
 Total Depth 61.80 feet Volume in Well 98 gallons  
 (3 Well Volumes = 2.94 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1350 / 6-4-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS(ppm) DO (mg/L)
1355	1	1	27.5	2673	6.84	153	1967
1400	1	2	25.1	2499	6.79	142	1830
1406	1	3	26.3	2493	6.79	148	1833

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

Time/Date Sampled 1408 Purged/Sampled By [Signature]

Sample Method Bailer

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-10 ~~DAD-10~~ Date Gauged 6-9-14  
 Site \_\_\_\_\_ Time Gauged 10:57  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 83.65 feet Height of Fluid Column 10.55 ~~10.55~~ feet  
 Total Depth 94.20 feet Volume in Well 1.7935 gallons  
 (3 Well Volumes = 5.38 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:04 6-9-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:08	1	1	23.8	2430	7.81	109	1783
11:12	1	2	23.7	2428	7.49	110	1784
11:17	1	3	23.5	2426	7.48	110	1781
11:21	1	4	23.3	2420	7.47	111	1775
11:25	1	5	22.9	2419	7.46	109	1774
11:27	0.50	5.50	22.7	2414	7.45	109	1771

Actual Purge Volume 5.50 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 11:27 6-9-14 Purged/Sampled By JW  
 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 6-6-14  
 Site \_\_\_\_\_ Time Gauged 8:20  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 21.37 feet Height of Fluid Column 13.87 feet  
 Total Depth 35.24 feet Volume in Well 2,3579 gallons  
 (3 Well Volumes = 7.07 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:25 6-6-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:27	1	1	24.3	3322	7.18	149	2512
8:29	1	2	24.1	3741	7.13	146	2864
8:32	1	3	23.6	3911	7.07	145	3066
8:34	1	4	23.3	4033	7.03	143	3109
8:36	1	5	23.1	4081	7.02	141	3157
8:38	1	6	23.1	4083	7.00	140	3155
8:41	1	7	23.0	4070	6.98	139	3144

Actual Purge Volume 7 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 8:41 6-6-14 Purged/Sampled By JV  
 Sample Method Bail  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations THE WELL IS MISSING ORANGE TOP CAP.

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 6-9-14  
 Site \_\_\_\_\_ Time Gauged 9:25  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 51.47 feet Height of Fluid Column 27.96 feet  
 Total Depth 79.43 feet Volume in Well 4.75 gallons  
 (3 Well Volumes = 14.25 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:32 6-9-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
9:55	8	8	23.9	4199	7.87	76	3250
9:58	1	9	23.6	4183	7.45	69	3235
10:02	1	10	23.2	4170	7.40	64	3226
10:05	1	11	22.9	4178	7.36	62	3232
10:08	1	12	22.6	4173	7.33	61	3225
10:11	1	13	22.5	4172	7.30	60	3227
10:14	1	14	22.3	4175	7.28	59	3231
10:15	.25	14.25	22.2	4170	7.26	58	3234

Actual Purge Volume 14.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:15 6-9-14 Purged/Sampled By BAIL 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-13 Date Gauged 6-9-14  
 Site \_\_\_\_\_ Time Gauged 10:22  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 88.69 feet Height of Fluid Column 3.27 feet  
 Total Depth 91.96 feet Volume in Well 5559 gallons  
 (3 Well Volumes = 1.67 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 10:28 6-9-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS BO (mg/L)
10:32	1	1	27.6	3086	7.85	89	2309
10:34	.75	1.75	26.7	3076	7.45	94	2303

Actual Purge Volume 1.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 10:34 6-9-14 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-14 Date Gauged 6-6-14  
 Site \_\_\_\_\_ Time Gauged 8:55  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 29.72 feet Height of Fluid Column 12.68 feet  
 Total Depth 42.40 feet Volume in Well 2.1556 gallons  
 (3 Well Volumes = 6.47 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:01 6-6-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS <del>DO</del> (mg/L)
9:04	1	1	21.4	5375	7.26	137	4288
9:07	1	2	20.6	5365	7.25	138	4286
9:10	1	3	20.3	5349	7.26	140	4276
9:13	1	4	20.0	5490	7.25	142	4381
9:15	1	5	19.9	5539	7.24	143	4435
9:18	1	6	19.8	5506	7.22	142	4394
9:19	.5	6.5	19.7	5495	7.21	143	4404

Actual Purge Volume 6.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:19 6-6-14 Purged/Sampled By JV

Sample Method BAIL

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

Comments/Observations THE ORANGE CAP IS MISSING TO WELL

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-15 Date Gauged 6-6-14  
 Site \_\_\_\_\_ Time Gauged 7:40  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 95.54 feet Height of Fluid Column 13.92 feet  
 Total Depth 109.46 feet Volume in Well 1.392 gallons  
 (3 Well Volumes = 4.17 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:45 6-6-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
7:49	1	1	24.4	3988	7.48	141	3088
7:53	1	2	23.7	3672	7.41	140	2915
7:57	1	3	23.5	3470	7.36	139	2596
<del>8:02</del> 8:02	1	4	23.1	3226	7.33	138	2411
<del>8:04</del> 8:04	.25	4.25	22.9	3056	7.30	138	2297

Actual Purge Volume 4.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 8:04 6-6-14 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-16 Date Gauged 6-3-14  
 Site \_\_\_\_\_ Time Gauged 12:45  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 20.30 feet Height of Fluid Column 12.29 feet  
 Total Depth 32.67 feet Volume in Well 2.0843 gallons  
 (3 Well Volumes = 6.2679 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:52 6-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
12:55	1	1	21.5	3585	7.39	75	2755
12:58	1	2	21.3	3653	7.36	65	2821
13:00	1	3	21.0	3642	7.35	57	2798
13:02	1	4	20.5	3633	7.33	49	2795
13:05	1	5	20.4	3635	7.30	41	2788
13:07	1	6	20.2	3619	7.27	32	2786
13:08	.25	6.25	20.1	3614	7.23	26	2775

Actual Purge Volume 6.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:08 6-3-14 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-17 Date Gauged 6-3-14  
 Site \_\_\_\_\_ Time Gauged 11:50  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 23.36 feet Height of Fluid Column 15.02 feet  
 Total Depth 38.38 feet Volume in Well 2.5534 gallons  
 (3 Well Volumes = 7.66 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:56 6-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:00	1	1	22.4	3856	7.25	106	2921
12:03	1	2	21.6	3821	7.21	107	2954
12:06	1	3	21.0	3853	7.13	107	2980
12:10	1	4	20.4	3856	7.07	108	2964
12:13	1	5	20.3	3861	7.04	107	2981
12:16	1	6	20.3	3846	7.01	107	2961
12:19	1	7	20.4	3845	6.99	106	2966
12:21	0.75	7.75	20.2	3843	6.98	105	2962

Actual Purge Volume 7.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:21 6-3-14 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-18 Date Gauged 6-3-14  
 Site \_\_\_\_\_ Time Gauged 10:40  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 25.38 feet Height of Fluid Column 31.63 feet  
 Total Depth 57.01 feet Volume in Well 5.377 gallons  
 (3 Well Volumes = 16.13 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:46 6-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:15	10	10	20.8	4541	7.16	65	3557
11:18	1	11	20.4	4588	7.12	64	3615
11:21	1	12	20.1	4593	7.06	64	3623
11:24	1	13	19.9	4547	6.99	65	3576
11:27	1	14	19.6	4540	6.94	66	3563
11:30	1	15	19.5	4501	6.92	65	3536
11:34	1	16	19.3	4505	6.89	65	3532
11:35	.25	16.25	19.4	4490	6.87	64	3527

Actual Purge Volume 16.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:35 6-3-14 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 19 Date Gauged 6/4/14  
 Site \_\_\_\_\_ Time Gauged 10:36  
 Depth to PSH 0 feet Well Diameter 2 inches  
 Depth to Water 65.66 feet Height of Fluid Column 33.53 feet  
 Total Depth 99.19 feet Volume in Well 5.70 gallons  
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:45 / 6-4-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:57	5	5	29.6	6607	6.84	167	5365
11:08	5	10	26.3	5140	6.69	173	4037
11:19	5	15	28.6	5188	6.58	166	4079

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10%  
 Time/Date Sampled 11:20 / 6-4-14 Purged/Sampled By [Signature]  
 Sample Method Bailer  
 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-20 Date Gauged 6-9-14  
 Site \_\_\_\_\_ Time Gauged 12:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 54.23 feet Height of Fluid Column 14.77 feet  
 Total Depth 69.0 feet Volume in Well 2.51 gallons  
 (3 Well Volumes = 7.53 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:20 6-9-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
12:23	1	1	24.5	3704	7.85	117	2835
12:27	1	2	24.2	3734	7.89	115	2856
12:30	1	3	24.0	3746	7.86	114	2867
12:33	1	4	23.9	3757	7.50	113	2869
12:36	1	5	23.8	3755	7.46	110	2872
12:39	1	6	23.8	3749	7.44	108	2867
12:42	1	7	23.9	3751	7.41	105	2866
12:44	.5	7.5	23.9	3753	7.38	103	2865

Actual Purge Volume 7.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:44 6-9-14 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-21 Date Gauged 6-4-14  
 Site \_\_\_\_\_ Time Gauged 1428  
 Depth to PSH 0 feet Well Diameter 2 inches  
 Depth to Water 56.37 feet Height of Fluid Column 10.18 feet  
 Total Depth 66.55 feet Volume in Well 1.73 gallons  
 (3 Well Volumes = 5.19 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1434 / 6-4-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul. Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS <del>DO</del> (mg/L)
1437	1	1	23.4	3405	6.79	166	2561
1443	1	2	22.9	3390	6.73	159	2569
1447	1	3	23.1	3335	6.66	156	2516
1452	1	4	23.8	3566	6.65	155	2704
1458	1	5	25.6	3337	6.64	154	2519

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 1500 / 6-4-14 Purged/Sampled By [Signature]

Sample Method Bailer

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-22 Date Gauged 6-6-14  
 Site \_\_\_\_\_ Time Gauged 10:10  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 46.59 feet Height of Fluid Column 3.48 feet  
 Total Depth 50.07 feet Volume in Well 5916 gallons  
 (3 Well Volumes = 1.77 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:16 6-6-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:28	1	1	23.7	4060	7.36	48	3145
	.75	1.75					

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:28 6-6-14 Purged/Sampled By JV

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

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

Comments/Observations TOOK A WHILE FOR WATER TO REFILL. COULD NOT PURGE .75 REMAINING

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.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
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5002 Basin Street, Suite A1  
Midland, Texas 79703  
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200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
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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: NEW PETROKUMA

Address: 1221 TULLO TRAIL LN, EL PASO, TX, 79927

Contact Person: VICTOR AVILA

Invoice to: VARIOUS DRUMS

Project #: 4411650

Project Location (including state): DENA ANA CONSUMM

Phone #: 715-854-8150

Fax #:

E-mail: VAVILA@MPUMPCOM

Project Name: ARMSTRONG 575-233-3660

Sampler Signature: [Signature]

## ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		REMARKS		
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE		TIME	
	DAD-16	1	500	X			X			X				6-3-14	13:45	
	DAD-16	1	250	X			X			X					13:00	
	DAD-17	1	500	X			X			X				12:21		
	DAD-17	1	250	X			X			X				12:21		
	DAD-16	1	500	X			X			X				11:35		
	DAD-16	1	250	X			X			X				11:35		
	DAD-5	1	500	X			X			X				10:24		
	DAD-5	1	250	X			X			X				10:24		
	DAD-4	1	400	X			X			X				9:36		
	DAD-4	1	250	X			X			X				9:36		

**LAB USE ONLY**

Relinquished by: [Signature] Company: [Company] Date: 6-3-14 Time: 14:30

Received by: [Signature] Company: [Company] Date: 6-3-14 Time: 14:30

Relinquished by: [Signature] Company: [Company] Date: 6-3-14 Time: 14:30

Received by: [Signature] Company: [Company] Date: 6-3-14 Time: 14:30

Initials: [Initials]

Headspace Y/N/NA: [Initials]

Log-in-Review: [Initials]

Dry Weight Basis Required:

TRRP Report Required:

Check if Special Reporting Limits Are Needed:

Carrier # [Number]

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

CHART COPY

# Trace Analysis, Inc.

email: lab@traceanalysis.com

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) 565-3443  
Fax (915) 585-4944  
1 (888) 868-3443

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

**Company Name:** PETROL **Phone #:** 915-851-1450

**Address:** 1801 7th Street, Dept. 79, Dallas **Fax #:**

**Contact Person:** VICTOR AYALA **E-mail:** VAYALA@ahpump.com

**Invoice to:** LINDA ARKIMING

**Project #:** 4/11/08 **Project Name:** WATER CONC

**Project Location (including state):** DONA ANA COUNTY, NM  
**Sampler Signature:** [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		REMARKS:
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	
	DAD-2	1	500	X	X	X	X	X	X	X	X	6-3-14	8:56	Hold
	DAD-2	1	500	X	X	X	X	X	X	X	X	6-3-14	8:56	Turn Around Time if different from standard
	DAD-1	1	500	X	X	X	X	X	X	X	X	8-27	8:27	TKN SM 4500 NORG
	DAD-2	1	250	X	X	X	X	X	X	X	X	8-27	8:27	TKN SM 4500 NORG

Relinquished by: JV Company: D-H Date: 6-3-14 Time: 14:30

Relinquished by: [Signature] Company: [Signature] Date: 6-3-14 Time: 16:30

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

**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
- G/MS Vol. 8260 / 624
- G/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
- Nitrate EPA 8210
- TKN SM 4500 NORG
- Chlordane EPA 8210
- Total Dissolved Solids SM 2540 (M)

LAB USE ONLY

Carrier # CA127

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# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
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1 (888) 568-3443

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

**Company Name:** DrH Petroleum **Phone #:** 915-858-8151

**Address:** 1221 Tower Trail Ln El Paso Tx 799 **Fax #:**

**Contact Person:** Victor Ayala **E-mail:** VictorAyala@dhpetroleum.com

**Invoice to:** Victor Ayala

**Project #:** 441968 **Project Name:** Dams Ana Consortium

**Project Location (including state):** Dams Ana County, NM

**Sampler Signature:** *[Signature]*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD				DATE	SAMPLING TIME	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, SO4, NO3-N, NO2-N, PO4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC	Nitrates EPA 300.0	TKW 5M 4660 NORS	Chloride EPA 300.0	Total Dissolved Solids 5M 2540.0 MOD	Turn Around Time if different from standard	Hold																		
				WATER	AIR	SLUDGE	HCl	HNO3	H2SO4	NaOH																												ICE	NONE																
	DAD-19	1	500	X			X			X		6-4-11 11:20																																											
	DAD-19	1	250	X			X			X		6-4-11 11:20																																											
	DAD-08	1	500	X			X			X		1230																																											
	DAD-08	1	250	X			X			X		1230																																											
	DAD-09	1	500	X			X			X		1408																																											
	DAD-09	1	250	X			X			X		1408																																											
	DAD-21	1	500	X			X			X		1500																																											
	DAD-21	1	250	Y			X			X		1500																																											

**LAB USE ONLY**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: *[Signature]* DHA Date: 6-4-11 Time: 1545

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Company: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Company: \_\_\_\_\_

Intact  Y  N

Headspace  Y  N  NA

Log-In/Review \_\_\_\_\_

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting Limits Are Needed

REMARKS:

8701 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

Phone #: 915-859-8150  
Cell #: \_\_\_\_\_  
Fax #: \_\_\_\_\_  
E-mail: [vajala@dhpump.com](mailto:vajala@dhpump.com)

Company Name: \_\_\_\_\_  
D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Lower Trail Ln., El Paso, TX 79907

Contact Person: \_\_\_\_\_  
Victor Ayala  
Invoice to (if different from above):  
Dona Ana Dairies, PO Box 10, Mesquite, NM 88048

Project #: 441968  
Project Name: Linda Armstrong 575-233-3620  
Dona Ana Dairies Consortium  
Sampler Signature: *L.A.*

Project Location (including state):  
Various Dairies, Dona Ana County, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		Turn Around Time	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE		DATE
	DAD-15	1	500	X				X		X			6-6-14	8:04	
	DAD-15	1	250	X				X		X				8:04	
	DAD-11	1	500	X				X		X				8:41	
	DAD-11	1	250	X				X		X				8:41	
	DAD-14	1	500	X				X		X				9:19	
	DAD-14	1	250	X				X		X				9:19	
	DAD-14	1	500	X				X		X				10:28	
	DAD-22	1	250	X				X		X				10:28	
	DAD-22	1		X				X		X					
	DAD-22	1		X				X		X					
	DAD-22	1		X				X		X					
	DAD-22	1		X				X		X					

Page \_\_\_\_\_ of \_\_\_\_\_

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # \_\_\_\_\_

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 60 (B/200.7)	
Nitrates EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Remarks:

Lab Use Only

Intact  Y /  N

Headspace  Y /  N

Temp *18.1* / *5/25/14*

Log-in Review

Dry Weight Basis Required

TRRP Report Required

Relinquished By: <i>Jay</i>	Date: 6-6-14	Time: 10:55
Received at Laboratory By: <i>D.A.H.</i>	Date: 6-6-14	Time: 10:55
Relinquished By:	Date:	Time:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # \_\_\_\_\_

6701 Aberdeen, Ste. 9  
Lubbock TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

135 McCutcheon, Ste. H El Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name: \_\_\_\_\_ Phone #: 915-859-8150  
D&H Petroleum & Environmental Services Cell #: \_\_\_\_\_  
Address: (Street, City, Zip) \_\_\_\_\_  
1221 Tower Trail Ln, El Paso TX 79907 Fax #: \_\_\_\_\_  
Contact Person: \_\_\_\_\_ E-mail: vajala@dhpump.com  
Victor Ayala

Project #: 441960  
Project Location (including state):  
Various Dairies, Dona Ana County, NM

Project Name: Linda Armstrong 575-233-3620  
Dona Ana Dairies Consortium  
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
DAD-03		1	500	X			X	X	X	X	X	6-9-14	9:16
DAD-03		1	250	X			X	X	X	X	X		9:16
DAD-12		1	500	X			X	X	X	X	X	10:15	
DAD-12		1	250	X			X	X	X	X	X	10:15	
DAD-13		1	500	X			X	X	X	X	X	10:34	
DAD-13		1	250	X			X	X	X	X	X	10:34	
DAD-10		1	500	X			X	X	X	X	X	11:27	
DAD-10		1	250	X			X	X	X	X	X	11:27	
DAD-20		1	500	X			X	X	X	X	X	12:44	
DAD-20		1	250	X			X	X	X	X	X	12:44	
DAD-10		1		X			X	X	X	X	X		
DAD-10		1		X			X	X	X	X	X		
DAD-11		1		X			X	X	X	X	X		
DAD-11		1		X			X	X	X	X	X		
DAD-14		1		X			X	X	X	X	X		
DAD-14		1		X			X	X	X	X	X		
DAD-15		1		X			X	X	X	X	X		
DAD-15		1		X			X	X	X	X	X		
DAD-16		1		X			X	X	X	X	X		
DAD-16		1		X			X	X	X	X	X		
DAD-17		1		X			X	X	X	X	X		
DAD-17		1		X			X	X	X	X	X		

ANALYSIS REQUEST

TX 1005 Extended (C35)	
TPH 418.1 / TX1005	
BTEX 8021B/602	
MTBE 8021B/602	
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 NORGC	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Relinquished By: *[Signature]* Date: 6-9-14 Time: 14:15  
Received at Laboratory By: MLC Date: 6-9-14 Time: 14:15

Relinquished By: *[Signature]* Date: 6-9-14 Time: 11:20  
Received at Laboratory By: *[Signature]* Date: 6-9-14 Time: 14:15

Remarks: ON ICE

Lab Use Only

Intact  Y /  N

Headspace  Y /  N

Temp *[Signature]*

Log-in Review

Dry Weight Basis Required

TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-01 Date Gauged 5-16-14  
 Site COW20162 Time Gauged 11:03  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 18.55 feet Height of Fluid Column 6.82 feet  
 Total Depth 25.37 feet Volume in Well 4.502 gallons  
 (3 Well Volumes = 13.50 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:10 5-16-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:28	6	6	20.6	6268	5.91	151	5057
11:30	1	7	20.5	6325	5.89	153	5140
11:32	1	8	20.3	6314	5.97	151	5133
11:34	1	9	20.5	6311	5.96	155	5128
11:36	1	10	20.4	6323	5.97	154	5135
11:37	1	11	20.5	6325	5.98	153	5129
11:39	1	12	20.6	6312	5.97	154	5127
11:46	1.5	13.5	20.6	6307	5.97	153	5123

Actual Purge Volume 13.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:40 5-16-14 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 ~~177-02~~ 177-02 Date Gauged 5-16-14  
 Site \_\_\_\_\_ Time Gauged 11:50  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 19.32 feet Height of Fluid Column 6.08 feet  
 Total Depth 25.4 feet Volume in Well 4.028 gallons  
 (3 Well Volumes = 12 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:56 5-16-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:07	5	5	20.9	4829	6.53	157	3795
12:09	1	6	20.9	4745	6.51	158	3754
12:10	1	7	20.1	4727	6.50	156	3735
12:12	1	8	20.4	4709	6.50	158	3719
12:14	1	9	20.3	4712	6.22	157	3717
12:16	1	10	20.2	4704	6.21	157	3713
12:18	1	11	20.1	4719	6.19	158	3723
12:20	1	12	20.2	4703	6.15	159	3709

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

Time/Date Sampled 12:20 5-16-14 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 177-03A Date Gauged 5-19-14  
 Site CONZALEZ Time Gauged ~~10:52~~ 10:52  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 21.60 feet Height of Fluid Column 25.72 feet  
 Total Depth 47.4 feet Volume in Well 16.9752 gallons  
 (3 Well Volumes = 50.92 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged ~~10:57~~ 10:57 5-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:35	44	44	25.3	4877	<del>6.85</del> 6.85	<del>123</del> 123	3843
12:38	1	45	25.1	4922	6.81	121	3871
12:42	1	46	25.0	4934	6.78	119	3899
12:46	1	47	24.9	4940	6.75	117	3891
12:49	1	48	<del>24.8</del> 24.8	4948	6.73	114	3905
12:53	1	49	24.7	4945	6.70	113	3898
12:57	1	50	24.7	4954	6.66	112	3907
13:01	1	51	24.6	4955	6.64	111	3906

Actual Purge Volume 51 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:01 5-19-14 Purged/Sampled By JV

Sample Method BAIL

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

Comments/Observations THE LOCK HAS BEEN CUST.

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 5-19-14  
 Site Gonzalez Time Gauged 9:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 25.5 feet Height of Fluid Column 20.83 feet  
 Total Depth 46.33 feet Volume in Well 13.7478 gallons  
 (3 Well Volumes = 41.24 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:19 5-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:23	35	35	22.1	6262	7.04	114	5061
10:26	1	36	22.0	6276	7.03	112	5087
10:29	1	37	21.9	6272	6.99	110	5081
10:31	1	38	21.9	6278	6.97	108	5087
10:34	1	39	21.8	6275	6.94	106	5083
10:36	1	40	21.8	6273	6.91	105	5078
10:39	1	41	21.8	6258	6.89	103	5072
10:40	.25	41.25	21.9	6252	6.88	102	5068

Actual Purge Volume 41.25 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:40 5-19-14 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 177-05 Date Gauged 5-19-14  
 Site Gonzalez Time Gauged 8:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 36.67 feet Height of Fluid Column 11.33 feet  
 Total Depth 49.0 feet Volume in Well 7.4778 gallons  
 (3 Well Volumes = 22.43 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 8:20 5-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	<del>TDS DO (mg/L)</del>
8:51	16	16	21.4	6449	7.85	110	5237
8:53	1	17	20.9	6356	7.42	108	5165
8:56	1	18	21.0	6360	7.34	108	5170
8:58	1	19	21.1	6366	7.26	106	5167
<del>8:58</del> 9:01	1	20	21.1	6372	7.21	107	5175
9:03	1	21	21.2	6376	7.16	108	5178
9:04	1	22	21.2	6379	7.14	106	5175
9:07	5	22.5	21.1	6381	7.11	104	5161

Actual Purge Volume 22.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:07 5-19-14 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 177-05 06 Date Gauged 5-19-14  
 Site GONZALEZ Time Gauged 8:10  
 Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches  
 Depth to Water 0 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth 51.9 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 THERE IS NO WATER IN WELL. THE LOCK IS MISSING AS WELL.

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-07 Date Gauged 5-19-14  
 Site CONRAE Time Gauged 13:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 46.67 feet Height of Fluid Column 7.63 feet  
 Total Depth 54.3 feet Volume in Well 5.0358 gallons  
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:21 5-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	<sup>TDS</sup> DO (mg/L)
13:38	8	8	24.3	4760	6.90	97	3776
13:40	1	9	24.1	4868	6.91	100	3831
13:42	1	10	24.0	4857	6.90	99	3813
13:44	1	11	24.9	4816	6.89	96	3796
13:47	1	12	23.8	4831	6.89	94	3806
13:50	1	13	23.4	4826	6.87	93	3801
13:52	1	14	23.2	4819	6.83	93	3798
13:54	1	15	23.1	4821	6.80	92	3801

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:54 5-19-14 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



70107-A000000001-010-9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

Phone #: 915-859-8150

Cell #: \_\_\_\_\_

Fax #: \_\_\_\_\_

E-mail: [vajjala@dhpump.com](mailto:vajjala@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 #: **441972**

Project Name: Joe Gonzalez 575-233-4801

Gonzalez Dairy Inc.

Sampler Signature: *July*

Project Location (including state): \_\_\_\_\_

Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				Sampling		Turn Around Time	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE			NONE
177-01		1		X				X				5-16-14	11:40		
177-01		1		X				X				11:40			
177-02		1		X				X				12:20			
177-02		1		X				X				12:20			
177-03		1		X				X							
177-03		1		X				X							
177-04		1		X				X							
177-04		1		X				X							
177-05		1		X				X							
177-05		1		X				X							
177-06		1		X				X							
177-06		1		X				X							
177-07-D		1		X				X							
177-07-D		1		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	X
Nitrate EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Remarks: *UE*

Lab Use Only  
 Intact  N  
 Headspace  Y /  N  
 Temp *12-1* / *3/20*  
 Log-in Review \_\_\_\_\_

Relinquished By: *July* Date: 5-16-14 Time: 12:50

Received By: *D J H* Date: 5-16-14 Time: 12:58

Relinquished By: *100* Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

# TraceAnalysis, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # \_\_\_\_\_

Company Name: TraceAnalysis, Inc.  
 Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

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 #: 441472  
 Project Location (including state):  
 Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM

Project Name: Gonzalez Dairy Inc.  
 Project #: \_\_\_\_\_  
 Sampler Signature: \_\_\_\_\_

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		
177-01			1		X				X	X	X	X		
177-02			1		X				X	X	X	X		
177-03			1	500	X				X	X	X	X	5-19-14	13:01
177-04			1	250	X				X	X	X	X	13:01	13:01
177-05			1	500	X				X	X	X	X	10:40	10:40
177-06			1	250	X				X	X	X	X	9:07	9:07
177-07			1	250	X				X	X	X	X	9:07	9:07
177-08			1		X				X	X	X	X		
177-09			1		X				X	X	X	X		
177-07 R			1	500	X				X	X	X	X	13:54	13:54
177-07 R			1	250	X				X	X	X	X	13:54	13:54

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

LAB Use Only	Lab Use Only	Time	Date
Intact	Y	N	N
Headspace	Y	N	N
Temp	O	D	C
Log-in Review			

Relinquished By: July Date: 5-19-14 Time: 14:21

Received By: [Signature] Date: 5-19-14 Time: 14:21

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Remarks:

Turn Around Time \_\_\_\_\_

LAB #	Field Code	# Containers	Volume/Amount	MATRIX	PRESERVATIVE METHOD	DATE	SAMPLING TIME
177-01		1		WATER	HCl		
177-02		1		WATER	HCl		
177-03		1	500	WATER	HCl	5-19-14	13:01
177-04		1	250	WATER	HCl		13:01
177-05		1	500	WATER	HCl		10:40
177-06		1	250	WATER	HCl		9:07
177-07		1	250	WATER	HCl		9:07
177-08		1		WATER	HCl		
177-09		1		WATER	HCl		
177-07 R		1	500	WATER	HCl		13:54
177-07 R		1	250	WATER	HCl		13:54

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 70-01 Date Gauged 5-15-15  
 Site MT. View Time Gauged 10:00  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 36.58 feet Height of Fluid Column 9.02 feet  
 Total Depth 45.6 feet Volume in Well 5.95 gallons  
 (3 Well Volumes = 17.85 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:05 5-15-15 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:29	11	11	22.7	4255	7.46	197	3178
10:31	1	12	22.1	4216	7.44	192	3169
10:34	1	13	21.9	4221	7.43	188	3175
10:37	1	14	21.9	4213	7.41	186	3172
10:40	1	15	21.8	4203	7.40	183	3163
10:42	1	16	21.8	4203	7.39	180	3161
10:44	1	17.0	21.9	4201	7.34	178	3158
10:47	1	18.0	21.7	4197	7.30	177	3156

Actual Purge Volume 18 gals Field Measurements stabilized within ± 10% ✓

Time/Date Sampled 10:47 5-15-15 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 70-02 Date Gauged 5-14-14  
 Site MOUNTAIN View Time Gauged 13:45  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 46.1 feet Height of Fluid Column 3.4 feet  
 Total Depth 49.5 feet Volume in Well 2.24 gallons  
 (3 Well Volumes = 2.25 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:50 5-14-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
<u>13:56</u>	<u>1</u>	<u>1</u>	<u>24.0</u>	<u>4361</u>	<u>7.67</u>	<u>134</u>	<u>5021</u>
		<u>2</u>					
		<u>2.25</u>					

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:56 5-14-14 Purged/Sampled By JV

Sample Method BAIL

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

Comments/Observations HAD TROUBLE PURGING WATER FROM WELL.

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 5-15-14  
 Site MOUNTAIN VIEW Time Gauged 8:44 8:42  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 56.6 feet Height of Fluid Column 4.65 feet  
 Total Depth 61.25 feet Volume in Well 3.07 gallons  
 (3 Well Volumes = 9.2 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:47 5-15-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:56	3	3	20.5	10.76	7.30	197	8973
8:59	1	4	20.7	10.68	7.27	194	8904
9:01	1	5	20.8	10.64	7.23	194	8871
9:04	1	6	20.6	10.60	7.22	191	8821
9:07	1	7	20.8	10.55	7.20	190	8789
9:10	1	8	20.8	10.53	7.18	188	8778
9:12	1	9	20.7	10.51	7.17	187	8771
9:13	.25	9.25	20.5	10.44	7.16	184	8767

Actual Purge Volume 9.25 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:13 5-15-15 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 5-15-14  
 Site MT. View Time Gauged 10:56  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 34.01 feet Height of Fluid Column 12.98 feet  
 Total Depth 47.79 feet Volume in Well 2.2 gallons  
 (3 Well Volumes = 6.61 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:04 5-15-14 Purged Method \_\_\_\_\_

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:07	1	1	23.2	4285	7.83	182	3224
11:10	1	2	23.0	4291	7.87	181	3231
11:13	1	3	23.1	4286	7.82	180	3225
11:16	1	4	23.1	4288	7.50	178	3227
11:19	1	5	23.2	4281	7.44	177	3221
11:21	1	6	23.1	4278	7.48	176	3219
11:22	.5	6.5	22.9	4287	7.48	176	3220

Actual Purge Volume 6.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:22 5-14-14 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

Company Name: D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: Victor Ayala  
 Phone #: 915-859-8150  
 Cell #:   
 Fax #:   
 E-mail: vavala@dhpump.com

Project #: 441981  
 Project Name: Mountain View Dairy  
 Project Location (including state): Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048  
 Sampler Signature: *July*

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	
70-01		1		X				X		X		X				
70-01		1		X				X		X		X				
70-02		1		X				X		X		X		5-14-14	13:56	
70-02		1		X				X		X		X		5-14-14	13:56	
70-03		1		X				X		X		X				
70-03		1		X				X		X		X				
70-04		1		X				X		X		X				
70-04		1		X				X		X		X				
70-Lagoon		1		X				X		X		X				
70-Lagoon		1		X				X		X		X				
70-Lagoon		1		X				X		X		X				
North Stormwater Lagoon		1		X				X		X		X				
North Stormwater Lagoon		1		X				X		X		X				
North Stormwater Lagoon		1		X				X		X		X				

Relinquished By: *July* Date: 5-14-14 Time: 14:35  
 Received By: *Denny at H&H* Date: 5-14-14 Time: 14:55  
 Lab Use Only  
 Headspace  /  /   
 Temp *9.0°C*  
 Log-in Review

LAB Order ID # \_\_\_\_\_

ANALYSIS REQUEST

PAH 8270C	
TX 1005 Extended (C35)	
TPH 418.1 / TX1005	
BTEX 8021B/602	
MTBE 8021B/602	
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	

Remarks: *see*  
 Dry Weight Basis Required   
 TRRP Report Required

# TraceAnalysis, Inc.

Company Name: TraceAnalysis, Inc. Phone #: 915-859-8150

D&H Petroleum & Environmental Services Cell #: \_\_\_\_\_

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

Contact Person: Victor Ayala E-mail: vayala@dhpump.com

Project #: 441981 Project Name: Mountain View Dairy

Project Location (including state): Mountain View Dairy, 13090 Stern Drive, 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
70-01			1	566	X				X	X	X	X	5-15-14	10:47
70-01			1	250	X				X	X	X	X		10:47
70-02			1	500	X				X	X	X	X		
70-02			1	250	X				X	X	X	X		
70-03			1	500	X				X	X	X	X	9:13	
70-03			1	250	X				X	X	X	X	9:13	
70-04			1	500mL	X				X	X	X	X	11:22	
70-04			1	250	X				X	X	X	X	11:22	
70 Lagoon			1	560	X				X	X	X	X	9:40	
70 Lagoon			1	250mL	X				X	X	X	X	9:40	
70 Lagoon			1	250mL	X				X				9:40	
North Stormwater Lagoon			1		X				X	X	X	X		
North Stormwater Lagoon			1		X				X	X	X	X		
North Stormwater Lagoon			1		X				X					

Relinquished By: July Date: 5-15-14 Time: 14:25 Received By: AKL Date: 5-15-14 Time: 16:30

Relinquished By: AKL Date: 5-15-14 Time: 16:30 Received at Laboratory By: AKL Date: 5-15-14 Time: 19:25

Lab Use Only: Y/N Date: 5-15-14 Time: 19:25

Remarks: nick

Headspace Y/N Temp MD/10 Log-in Review MD/10

Dry Weight Basis Required Y/N TRRP Report Required Y/N

Notes: Ten analysis in tublock

5-15-14



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-04 Date Gauged 5-15-14  
 Site ORGAN Time Gauged 12:30  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 35.02 feet Height of Fluid Column 3.26 feet  
 Total Depth 38.28 feet Volume in Well 2.15 gallons  
 (3 Well Volumes = 6.45 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:37 5-15-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
12:46	1	1	22.7	3633	8.40	198	2696
12:42	1	2	22.3	3539	8.36	200	2624
12:45	1	3	22.4	3536	8.32	202	2610
12:47	1	4	22.6	3547	8.27	201	2608
12:50	1	5	22.5	3538	8.24	203	2605
12:52	1	6	22.6	3531	8.21	201	2609
12:53	.5	6.5	22.6	3523	8.17	201	2606

Actual Purge Volume 6.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:53 5-15-14 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 126-05 Date Gauged 5-15-14  
 Site ORCAN Time Gauged 13:04  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 27.63 feet Height of Fluid Column 3.87 feet  
 Total Depth 31.5 feet Volume in Well 1.6579 gallons  
 (3 Well Volumes = 1.97 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:10 5-15-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:14	1	1	23.5	4693	8.52	164	3590
	1	2					

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:14 5-15-14 Purged/Sampled By JV

Sample Method BAIL

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

Comments/Observations WAS ONLY ABLE TO PURGE ABOUT 1

GALLON OF WATER, WELL IS MISSING ORANGE COVER ON TOP.

ONLY HAS COVER TO THE CASE.

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 5-16-14  
 Site ORGAN Time Gauged 10:30  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 39.52 feet Height of Fluid Column 3.73 feet  
 Total Depth 39.25 feet Volume in Well 0.6341 gallons  
 (3 Well Volumes = 1.90 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:46 5-16-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:42	1	1	22.3	3770	5.84	174	2908
10:43	1	2	22.1	3728	5.87	169	2861

Actual Purge Volume 2 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 10:43 5-16-14 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 DA 126-09 Date Gauged 5-15-14  
 Site Del Oro Time Gauged 8:14  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 77.7 feet Height of Fluid Column 4.7 feet  
 Total Depth 82.4 feet Volume in Well .799 gallons  
 (3 Well Volumes = 2.4 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:21 5-15-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:35	1	1	20.4	4778	7.40	175	3652
	1	2					
	.5	2.5					

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 8:35 5-15-14 Purged/Sampled By JV  
 Sample Method BAIL  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations THERE WAS A LOT OF SAND MADE IT DIFFICULT TO PURGE WATER.

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 5-15-14  
 Site ORGAN Time Gauged 13:25

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 23.6 feet Height of Fluid Column 6.4 feet  
 Total Depth 30.0 feet Volume in Well 4.22 gallons  
 (3 Well Volumes = 12.67 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:30 5-15-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:45	6	6	21.2	3561	9.00	186	2644
13:47	1	7	20.7	3505	8.88	187	2603
13:49	1	8	20.8	3514	8.80	188	2605
13:51	1	9	20.7	3506	8.73	186	2601
13:53	1	10	21.0	3499	8.67	185	2594
13:55	1	11	21.0	3509	8.42	184	2601
13:57	1	12	21.1	3513	8.55	183	2603
13:58	0.75	12.75	21.0	3522	8.49	182	2600

Actual Purge Volume 12.75 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:58 5-15-14 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 5-15-14  
 Site ORGAN Time Gauged 11:40  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 42.04 feet Height of Fluid Column 16.76 feet  
 Total Depth 58.8 feet Volume in Well 2.84 gallons  
 (3 Well Volumes = 8.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:45 5-15-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:44	2	2	23.1	4956	8.18	165	3790
11:52	1	3	22.6	5064	8.08	168	3829
11:55	1	4	22.3	4988	8.04	169	3819
11:58	1	5	22.3	4990	8.04	168	3821
12:06	1	6	22.5	4976	8.01	168	3814
12:03	1	7	22.5	4973	7.97	166	3805
12:06	1	8	22.4	4964	7.94	169	3801
12:07	0.5	8.5	22.5	4971	7.92	168	3802

Actual Purge Volume 8.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:07 5-15-14 Purged/Sampled By JV

Sample Method BAIL

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

Comments/Observations THE METAL TOP OF WELL DOES NOT CLOSE

ALL THE WAY, IS BENT.

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.

15501 Weber Street, Suite 101  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

15501 Weber Street, Suite 101  
Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name:

D&H Petroleum & Environmental Services

Address: (Street, City, Zip)

1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person:

Victor Ayala

Invoice to (if different from above):

Organ Dairy (Former Del Norte), P.O. Box 130, Mesilla Park, NM 871

Project Name:

Organ Dairy

Sampler Signature: *Jub*

Project Location (including state):

Organ Dairy, 12560 Stern Drive, Mesquite, NM

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		
126-4			1		X				X	X	X	X	5-15-14	12:53
126-4			1		X				X	X	X	X	5-15-14	12:53
126-5			1	500	X				X	X	X	X	5-15-14	13:14
126-5			1	250	X				X	X	X	X	5-15-14	13:14
126-7			1		X				X	X	X	X	5-15-14	8:35
126-7			1		X				X	X	X	X	5-15-14	8:35
126-9			1		X				X	X	X	X	5-15-14	13:58
126-9			1	500	X				X	X	X	X	5-15-14	13:58
126-12			1	850	X				X	X	X	X	5-15-14	12:07
126-12			1		X				X	X	X	X	5-15-14	12:07
126-13			1		X				X	X	X	X	5-15-14	12:20
126-13			1	500	X				X	X	X	X	5-15-14	12:20
126 Lagoon			1	250	X				X	X	X	X	5-15-14	12:20
126 Lagoon			1		X				X	X	X	X	5-15-14	12:20

Relinquished By: *Jub* Date: 5-15-14 Time: 14:25  
 Relinquished By: *MLL* Date: 5-15-14 Time: 16:30  
 Received at Laboratory By: *MLL* Date: 5-15-14 Time: 14:25  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Lab Use Only  
 Intact  Y /  N  
 Headspace  Y /  N  
 Temp *12.2/2*  
 Log-in Review

Remarks: *on JCL*  
*TKN analysis in Subbook*  
*MLL*  
*12*

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
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Phosphorus SM 4500	
Turn Around Time	
Hold	

# TraceAnalysis, Inc.

1300 Westchester, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name: Phone #: 915-859-8150  
Cell #: \_\_\_\_\_  
Fax #: \_\_\_\_\_  
E-mail: [vavala@dhpump.com](mailto:vavala@dhpump.com)

D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person: Victor Ayala  
Invoice to (if different from above):  
Organ Dairy (Former Del Norte), P.O. Box 130, Mesilla Park, NM 871

Project #: 44/483  
Project Name: Organ Dairy  
Sampler Signature: *July*

Project Location (including state):  
Organ Dairy, 12560 Stern Drive, Mesquite, NIM

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
<del>126-1</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-1</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-5</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-5</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
126-7		1	500	X				X		X			5-16-14	10:43	
126-7		1	250	X				X		X			5-16-14	10:43	
<del>126-8</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-9</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-10</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-12</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-12</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-13</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-13</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-13</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-13</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>126-13</del>	<del>          </del>	<del>1</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>X</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>

## ANALYSIS REQUEST

MTBE 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
BTEX 8021B/602												

Relinquished By: *July* Date: 5-16-14 Time: 12:50  
 Received at Laboratory By: *D. J. H* Date: 5-16-14 Time: 12:50  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Lab Use Only  
 Intact  Y  N  
 Headspace  Y  N  
 Temp  20°C  \_\_\_\_\_  
 Log-in Review \_\_\_\_\_

Remarks: *1LE*

Dry Weight Basis Required   
 TRRP Report Required



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-01 Date Gauged 5-23-14  
 Site RIVER VALLEY Time Gauged 9:32  
 Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches  
 Depth to Water 18.81 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth 107.18 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)	TDS DO (mg/L)

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

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

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

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

Comments/Observations GAUGE ONLY

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 5-23-14  
 Site RIVER VALLEY Time Gauged 9:45  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2' inches  
 Depth to Water 18.94 feet Height of Fluid Column 6.98 feet  
 Total Depth 25.22 feet Volume in Well 1.0676 gallons  
 (3 Well Volumes = 3.2 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 10:00 5-23-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DB (mg/L)
10:02	1	1	16.4	4325	7.42	6	3411
10:04	1	2	17.0	4366	7.40	5	3478
10:06	1	3	17.4	4374	7.28	9	3461
10:07	.25	3.25	17.6	4372	7.20	19	3451

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

Time/Date Sampled 10:07 5-23-14 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 5-23-14  
 Site River Valley Time Gauged 9:06  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 20.63 feet Height of Fluid Column .26 feet  
 Total Depth 20.89 feet Volume in Well .1716 gallons  
 (3 Well Volumes = .5148 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)	TDS DO (mg/L)

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

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

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

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

Comments/Observations COULD NOT PURGE ANY WATER.

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 5-27-14  
 Site River Valley Time Gauged 9:00  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches  
 Depth to Water 0 feet Height of Fluid Column NA feet  
 Total Depth 30.9 feet Volume in Well NA gallons  
 (3 Well Volumes = NA 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)	TDS (mg/L)

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

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

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

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

Comments/Observations 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 5-23-14  
 Site River Valley Time Gauged 8:01  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 21.81 feet Height of Fluid Column 19.67 feet  
 Total Depth 40.88 feet Volume in Well 12.9822 gallons  
 (3 Well Volumes = 38.94 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:05 5-23-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:46	32	32	21.1	3511	7.48	109	2700
8:48	1	33	21.0	3482	7.42	111	2670
8:50	1	34	21.1	3473	7.38	111	2663
8:52	1	35	21.0	3471	7.35	112	2661
8:54	1	36	20.9	3475	7.32	112	2662
8:56	1	37	20.8	3478	7.30	111	2666
8:58	1	38	20.7	3472	7.28	110	3663
9:00	1	39 <del>40</del>	20.5	3475	7.25	108	3665

Actual Purge Volume 39 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:00 5-23-14 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 167-04 Date Gauged 5-22-14  
 Site RIVER VALLEY Time Gauged 13:25

Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 23.93 feet Height of Fluid Column 6.14 feet  
 Total Depth 30.07 feet Volume in Well 1.0438 gallons  
 (3 Well Volumes = 3.13 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:31 5-22-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:35	1	1	17.0	5287	7.91	71	4330
13:38	1	2	17.7	5027	7.47	71	4084
13:40	1	3	18.4	5187	7.41	70	4236
		3.25					

Actual Purge Volume 3 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:40 5-22-14 Purged/Sampled By JV

Sample Method BAIL

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

Comments/Observations THE WATER IS DARK BROWN. IT HAS A LOT OF SILT.

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 167-05 Date Gauged 5-23-14  
 Site River Valley Time Gauged 10:30  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 17.46 feet Height of Fluid Column 4.27 feet  
 Total Depth 21.73 feet Volume in Well 7259 gallons  
 (3 Well Volumes = 2.17 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 10:40 5-23-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:43	1	1	20.9	4840	7.38	88	3841
10:45	1	2	20.3	4680	7.31	87	3722
10:47	.25	2.25	20.2	4723	7.22	85	3755

Actual Purge Volume 2.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:47 5-23-14 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: 5-22-14  
 Site: RIVER VALLEY Time Gauged: 13:05  
 Depth to PSH: \_\_\_\_\_ feet Well Diameter: 2 inches  
 Depth to Water: 31.8 feet Height of Fluid Column: 3.9 feet  
 Total Depth: 35.7 feet Volume in Well: .663 gallons  
 (3 Well Volumes = 1.98 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged: 13:10 5-22-14 Purged Method: BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:12	1	1	22.7	4175	7.19	51	3240
13:14	1	2	21.6	4160	7.29	44	3265

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

Time/Date Sampled 13:14 5-22-14 Purged/Sampled By JV

Sample Method BAIL

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

Comments/Observations THE WATER IS MURKY BROWN.

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 16707 Date Gauged 5-23-14  
 Site RIVER VALLEY Time Gauged 9:12  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 18.94 feet Height of Fluid Column 6.06 feet  
 Total Depth 25.0 feet Volume in Well 1.0302 gallons  
 (3 Well Volumes = 3.0906 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:18 5-23-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS BO (mg/L)
9:20	1	1	19.2	2233	7.36	527	1643
9:22	1	2	19.7	2215	7.36	-0	1623
9:24	1	3	19.6	2224	7.31	-0	1629

Actual Purge Volume 3 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:24 5-23-14 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 167-08 Date Gauged 5-27-14  
 Site RIVER VALLEY Time Gauged 9:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 19.28 feet Height of Fluid Column 17.59 feet  
 Total Depth 30.97 feet Volume in Well 2.99 gallons  
 (3 Well Volumes = 9 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:21 5-27-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
9:29	2	2	19.9	4551	8.61	44	3583
9:34	1	3	20.0	4549	8.23	13	3585
9:39	1	4	20.4	4565	8.03	530	3595
9:45	1	5	20.3	4558	7.84	522	3597
9:49	1	6	20.2	4564	7.44	512	3590
9:53	1	7	20.3	4561	7.38	505	3586
9:57	1	8	20.4	4564	7.32	498	3584
10:01	1	9	20.3	4568	7.30	495	3579

Actual Purge Volume 9 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:01 5-27-14 Purged/Sampled By JV

Sample Method BAIL

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

Comments/Observations PENCIL BANNER WAS USED SINCE CASE IS RENT.

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 5-23-14  
 Site RIVER VALLEY Time Gauged 11:30

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

Depth to Water 17.52 feet Height of Fluid Column 2.18 feet

Total Depth 19.7 feet Volume in Well .3706 gallons

(3 Well Volumes = 1.11 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:35 5-23-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:37	1	1	18.7	4324	7.19	117	4313

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 11:37 5-23-14 Purged/Sampled By JV

Sample Method BAIL

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

Comments/Observations little water in well.

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.

Company Name: TraceAnalysis, Inc.  
 Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

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):  
 River Valley Dairy, PO Box 1929, Anthony, NM 88021

Project #:   
 Project Name: River Valley Dairy, LLC  
 Sampler Signature: *gms*

Project Location (including state):  
 River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

LAB #	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
167-01		1		X				X						
167-01		1		X				X						
167-01A		1	500	X				X				5-23-14	10:07	
167-01A		1	250	X				X					10:07	
167-02		1		X				X						
167-02		1		X				X						
167-03		1	500	X				X					9:00	
167-03		1	250	X				X					9:00	
167-04		1		X				X						
167-04		1		X				X						
167-05		1	500	X				X					10:17	
167-05		1	250	X				X					10:17	
167-06		1		X				X						
167-06		1		X				X						
167-07		1	500	X				X					9:24	
167-07		1	250	X				X					9:24	

Relinquished By: *gms* Date: 5-23-14 Time: 12:30  
 Received By: *[Signature]* Date: 5-23-14 Time: 02:28  
 Received at Laboratory By: *[Signature]* Date: Time:  
 Relinquished By: Date: Time:  
 Log-in Review: *CAJ*

Phone #: 915-859-8150  
 Cell #:   
 Fax #:   
 E-mail: vajala@dhpump.com

Project Name: River Valley Dairy, LLC  
 Project Location (including state):  
 River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

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	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Remarks: Lab Use Only  
 Intact *Y/N*  
 Headspace *Y/N*  
 Temp *4/30 sec.*  
 Log-in Review *CAJ*

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
 LAB Order ID # \_\_\_\_\_

Project Location (including state):  
 River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

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	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Remarks: Lab Use Only  
 Intact *Y/N*  
 Headspace *Y/N*  
 Temp *4/30 sec.*  
 Log-in Review *CAJ*

LAB Order ID # \_\_\_\_\_

Company Name: **TraceAnalysis, Inc.**  
 D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail-Ln, El Paso TX 79907  
 Contact Person: Victor Ayala  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

Project #: \_\_\_\_\_  
 Project Name: River Valley Dairy, LLC  
 Project Location (including state):  
 River Valley Dairy, PO Box 1929, Anthony, NM 88021  
 Project Location (including state):  
 River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

Sampler Signature: *[Signature]*

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
167-08		1	250	X				X				X		5-23-13	11:37
167-09		1	250	X				X				X		5-23-13	11:37
167-09		1	250	X				X				X		5-23-14	9:50
167 Lagoon		1	250	X				X				X		5-23-14	9:50
167 Lagoon		1	250	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	TKN SM 4500 NORG C	Chloride EPA 300	Total Dissolved Solids SM 2540 C MOD
								X	X	X	X

Relinquished By: *[Signature]* Date: 5-23-13 Time: 12:30  
 Received By: *[Signature]* Date: 5-23-14 Time: 12:38  
 Relinquished By: *[Signature]* Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Lab Use Only  
 Intact  Y  N  
 Headspace  Y  N  
 Temp  9  13  C  F  
 Log-in Review  \_\_\_\_\_

Remarks:  
 Dry Weight Basis Required  
 TRRP Report Required

May 7 Fri

**TraceAnalysis, Inc.**  
 Paso, TX 79932  
 Tel (915) 585-3443  
 Fax (915) 585-4944

Company Name: \_\_\_\_\_  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_

D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip) vajala@dhpump.com  
 1221 Tower Trail Ln, El Paso TX 79907

Contact Person: \_\_\_\_\_  
 Victor Ayala  
 Invoice to (if different from above): \_\_\_\_\_  
 River Valley Dairy, PO Box 1929, Anthony, NM 88021  
 Project #: \_\_\_\_\_  
 Bruce Bonestroo 575-233-2061  
 River Valley Dairy, LLC  
 Project Name: \_\_\_\_\_  
 River Valley Dairy, LLC  
 Sampler Signature: [Signature]

Project Location (including state): \_\_\_\_\_  
 River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					DATE	SAMPLING TIME	Turn Around Time	Hold	
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE					NONE
167-01		1		X			X				X					
167-04		1		X			X				X					
167-01A		1		X			X				X					
167-01A		1		X			X				X					
167-02		1		X			X				X					
167-03		1		X			X				X					
167-03		1		X			X				X					
167-04		1	500	X			X				X	5-22-14	13:40			
167-04		1	250	X			X				X		13:40			
167-05		1		X			X				X					
167-05		1		X			X				X					
167-06		1	500	X			X				X		13:14			
167-06		1	250	X			X				X		13:14			
167-07		1		X			X				X					
167-07		1		X			X				X					

ANALYSIS REQUEST

PAH 8270 (Low Level Analysis)

PAH 8270C

TX 1005 Extended (C35)

TPH 418.1 / TX1005

MTBE 8021B/602

BTEX 8021B/602

Chloride EPA 300

TKN SM 4500 NORG C

Nitrates EPA 300

Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7

Total Dissolved Solids SM 2540 C MOD

Remarks: ICE

Lab Use Only

Intac (Y) N

Headspace (Y) N

Temp 12-2 414

Log-in Review \_\_\_\_\_

Relinquished By: [Signature] Date: 5-22-14 Time: 14:20

Received at Laboratory By: [Signature] Date: 5-22-14 Time: 14:20

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Dry Weight Basis Required

TRRP Report Required

# TraceAnalysis, Inc.

Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

Paso, TX 79932  
 Tel (915) 585-3443  
 Fax (915) 585-4944

Company Name: D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln, El Paso TX 79907  
 Contact Person: Victor Ayala  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-mail: vaijala@dhpump.com

Project #: \_\_\_\_\_  
 Project Name: River Valley Dairy, LLC  
 Project Location (including state):  
River Valley Dairy, PO Box 1929, Anthony, NM 88021  
 Project #: \_\_\_\_\_  
 Project Name: Bruce Bonestroo  
 Project Location (including state):  
River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

Sampler Signature: [Signature]  
 Project Name: River Valley Dairy, LLC  
 Project Location (including state):  
River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		Turn Around Time	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE			TIME
167-08		1	500	X				X			X			5-27-14	10:01		
167-08		1	250	X				X			X			5-27-14	10:01		
<del>167-08</del>		<del>1</del>	<del>500</del>	<del>X</del>				<del>X</del>			<del>X</del>						
<del>167-08</del>		<del>1</del>	<del>500</del>	<del>X</del>				<del>X</del>			<del>X</del>						
<del>167-08</del>		<del>1</del>	<del>500</del>	<del>X</del>				<del>X</del>			<del>X</del>						
<del>167-08</del>		<del>1</del>	<del>500</del>	<del>X</del>				<del>X</del>			<del>X</del>						

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	
								X	X	X	X	
								X	X	X	X	
								X	X	X	X	

Relinquished By: July Date: 5-27-14 Time: 13:57  
 Received By: DDH Date: 5-27-14 Time: 18:57  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: 17:37  
 Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Lab Use Only  
 Intact  Y  N  
 Headspace  Y  N/A  
 Temp 18.1 / 11.0 °C  
 Log-in Review \_\_\_\_\_  
 Remarks: ICE  
CARRY IN  
 Dry Weight Basis Required   
 TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-01 Date Gauged 5-30-14  
 Site SUNSET Time Gauged 8:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 23.88 feet Height of Fluid Column 2.02 feet  
 Total Depth 25.90 feet Volume in Well .3434 gallons  
 (3 Well Volumes = 1.03 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:20 5-30-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:23	1	1	20.9	4897	8.77	87	3877

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 8:23 5-30-14 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 257-02 Date Gauged 5-30-14  
 Site SUNSET Time Gauged 10:16  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 15.84 feet Height of Fluid Column 4.89 feet  
 Total Depth 20.73 feet Volume in Well .8313 gallons  
 (3 Well Volumes = 2.49 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:15 5-30-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:17	1	1	20.8	3212	7.99	108	2424
10:19	1	2	19.9	3197	7.92	109	2439
10:20	.5	2.5	19.7	3198	7.85	111	2436

Actual Purge Volume 2.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:20 5-30-14 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 5-30-14  
 Site SUNSET Time Gauged 9:56  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2 inches  
 Depth to Water 0 feet Height of Fluid Column NA feet  
 Total Depth 13.72 feet Volume in Well NA gallons  
 (3 Well Volumes = NA 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 Well is DRY.

**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID 257/260-01 Date Gauged 5-30-14  
 Site SUNSET Time Gauged 9:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches  
 Depth to Water 15.37 feet Height of Fluid Column 4.96 feet  
 Total Depth 20.33 feet Volume in Well 3.2736 gallons  
 (3 Well Volumes = 9.8208 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 9:25 5-30-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:30	3	3	19.1	4120	8.08	91	3222
9:32	1	4	18.8	4147	7.99	90	3241
9:34	1	5	18.7	4145	7.90	89	3239
9:36	1	6	18.7	4156	7.84	89	3246
9:38	1	7	18.7	4162	7.47	90	3253
9:40	1	8	18.6	4160	7.44	91	3251
9:42	1	9	18.6	4157	7.42	91	3248
9:43	.75	9.75	18.6	4163	7.41	90	3256

Actual Purge Volume 9.75 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:43 5-30-14 Purged/Sampled By JV

Sample Method BAIL

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

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

6701 Acordian Ste. 9  
 Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

155 McCutcheon, Ste. H, E1  
 Paso, TX 79932  
 Tel (915) 585-3443  
 Fax (915) 585-4944

# Trace Analysis, Inc.

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): Sunset Dairy, PO Box 10, Mesquite, NM 88048  
 Project #: 441982  
 Project Location (including state): Sunset Dairy, 1790

Phone #: 915-859-8150  
 Cell #:   
 Fax #:   
 E-mail: valala@dhpump.com

Ed DeRuyter 575-233-2029  
 Project Name: Sunset Dairy  
 Sampler Signature: *ED*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH			ICE
257-01		1	500	X						X			5-30-14	8:23
257-01		1	250	X						X				8:23
257-02		1	500	X					X					10:20
257-02		1	250	X					X					10:20
<del>257-03</del>		<del>1</del>	<del>500</del>	<del>X</del>					<del>X</del>					<del>8:43</del>
<del>257-03</del>		<del>1</del>	<del>500</del>	<del>X</del>					<del>X</del>					<del>8:43</del>
257/260-01		1	800	X					X					9:43
257/260-01		1	250	X					X					9:43
257/260-01		1	500	X					X					8:40
257 Lagoon		1	500	X					X					8:40
257 Lagoon		1	250	X					X					8:40

LAB Order ID #	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
	Other - Phosphorus (EPA 6010B)
	Turn Around Time
	Hold

Relinquished By: *DMG* Date: 5-30-14 Time: 12:45  
 Received By: *D 7444* Date: 5-30-14 Time: 12:45

Lab Use Only  
 Remarks:   
 Intract  N  
 Headspace  Y  
 Temp  111°C  
 Log-in Review    
 Dry Weight Basis Required  
 TRRP Report Required

**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				
70/86/340-01	427320.92	1508461.05				
86/340-01	432021.33	1503216.90				
<b>Del Norte Dairy (DP-126)</b>						
126-04	423258.23	1510546.24				
126-05	422293.26	1510649.84				
126-07	423613.62	1509986.47				
126-09	425154.15	1510994.31				
126-12	421492.11	1510198.45				
126-13	423431.96	1510657.41				
<b>Mountain View Dairy (DP-70)</b>						
70-01	423303.43	1510585.63				
70-02	423412.73	1511192.51				
70-04						
<b>Buena Vista Dairy I (DP-86) - GAUGE ONLY</b>						
86-01	421534.62	1511667.76				
86-02	421792.08	1510881.53			32.7	48.5
<b>Bright Star Dairy (DP-340)</b>						
340-01	421410.13	1511423.42				
340-02	420641.08	1512051.57			54.8	56.7
<b>Gonzalez Dairy (DP-177)</b>						
177-01	417300.94	1512942.63				
177-02	416738.21	1513246.51				
177-03A	416211.35	1513814.71				
177-04	416796.99	1513733.28				
177-05	417302.42	1514116.55				
177-06	417301.84	1514765.63				
177-07R	415258.95	1515471.64				
<b>Dominguez 2 Dairy (DP-42)</b>						
42-02	419982.45	1511126.19			28.53	
42-03	419710.55	1514064.35			85.05	
42-06	420021.61	1511465.15				
42-07	420584.80	1513076.66				
42-08	419994.93	1511197.91				
42-09	419729.17	1512255.76				
42-10	421426.39	1514460.40				
42-11	420693.98	1515270.32				
42-12	420972.09	1515423.88				
42-13	419734.06	1512534.42				

**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				
624-02	417335.25	1512201.42				
624-04	418542.24	1508104.07				
624-05	419777.52	1509829.65				
624-06	418502.42	1513981.08				
624-07	418012.23	1514707.77			55.61	55.7
624-08	421461.78	1507712.04				
<b>CENTRAL AREA</b>						
<b>Buena Vista Dairy II (DP-74)</b>						
74-01	405434.93	1519310.15				
74-02	404574.08	1519035.52				
74-03	407163.61	1516711.72				
74-04	405488.65	1519864.48				
74-05	404747.71	1519885.30				
<b>River Valley Dairy (DP-167)</b>						
167-01	402518.37	1518459.71				gauge only/do not sample
167-01A	402518.18	1518936.72				
167-02	402498.30	1519354.81				
167-03	402981.73	1519415.73				
167-04	402032.19	1519884.60				
167-05	397947.44	1520446.03				
167-06	404479.35	1519603.88				
167-07	402562.23	1518480.34				
167-08	399352.96	1519889.65				
167-09	398473.95	1519259.34				
<b>Big Sky Dairy (DP-833)</b>						
833-01	399617.23	1521136.33				
833-02	401200.32	1520639.92				
833-03	401392.09	1521955.23				
833-04	402898.52	1520659.33				
833-05	399712.39	1522374.73				
833-06	402219.48	1522652.04				
833-07	399298.80	1522082.75				
833-08	400535.64	1521938.23				
833-09	398280.67	1520918.52				
833-10	396715.89	1520283.60				
<b>Sunset/Desert Land Dairy (DP-257)</b>						
257-01	395856.31	1520572.16				
257-02	394728.34	1521030.29				
257-03	397935.69	1518746.14				
257/260-01	397678.36	1519948.22				

**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>SOUTHERN AREA</b>						
<b>Del Oro Dairy (DP-692)</b>						
692-01	373615.88	1531529.38				
692-02	372984.72	1531192.10				
692-04	372982.53	1531555.21				
692-05	374807.26	1532403.00				
692-06	375054.77	1532411.83				
692-07	374944.88	1532019.81				
692-08	375535.69	1531378.09				
692-09	373575.83	1532395.09			83.69	
<b>ADDITIONAL WELLS AND DRAIN CROSSINGS (DAD)</b>						
Bruce1	388741.02	1523777.06	3808.92			
Bruce2	NM	NM	NM			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				
DAD-02	413002.98	1517319.93				
DAD-03	407721.31	1516497.85			13.39	19.76
DAD-04	404576.66	1517413.28				
DAD-05	396712.87	1519102.06				
DAD-06	404273.19	1522081.00				
DAD-07	399270.18	1524320.88				
DAD-08	395287.38	1522575.07				
DAD-09	373259.30	1530905.70				
DAD-10	372980.55	1532375.33				
DAD-11						
DAD-12						
DAD-13					87.24	91.9
DAD-14						
DAD-15						
DAD-16						
DAD-17						
DAD-18						
DAD-19						
DAD-20						
DAD-21						
DAD-22						

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

<b>Monitoring Well</b>	<b>Northing<sup>a</sup></b>	<b>Easting<sup>a</sup></b>	<b>Date</b>	<b>Time</b>	<b>Depth to Water (ft)<sup>b</sup></b>	<b>Notes or Total Depth (ft)<sup>b</sup></b>
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NOTES:

<sup>a</sup> Horizontal Control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)

<sup>b</sup> Measured in feet below the top of casing at survey point on north side of well

Dry = well has historically been dry well and is not sampled or gauged.



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

YEAR 2014

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	5-12	8:55	56.58	61.36
70/86/340-01	427320.92	1508461.05	5-12	8:46	49.94	67.69
86/340-01	432021.33	1503216.90	5-12	8:31	57.04	71.1
<b>Del Norte Dairy (DP-126)</b>						
126-04	423258.23	1510546.24	5-12	10:00	34.98	38.3
126-05	422293.26	1510649.84	5-12	10:06	27.63	31.5
126-07	423613.62	1509986.47	5-12	10:42	35.52	39.25
126-09	425154.15	1510994.31	5-12	10:55	77.7	<del>50.00</del> 82.4
126-12	421492.11	1510198.45	5-12	10:26	23.6	<del>23.6</del> 36.0
126-13	423431.96	1510657.41	5-12	9:52	<del>42.04</del> 42.04	58.8
<b>Mountain View Dairy (DP-70)</b>						
70-01	423303.43	1510585.63	5-12	9:42	36.56	45.6
70-02	423412.73	1511192.51	5-12	9:33	46.08	49.5
70-04			5-12	10:17	34.81	47.79
<b>Buena Vista Dairy I (DP-86) - GAUGE ONLY</b>						
86-01	421534.62	1511667.76	5-12	11:11	50.2	54.38
86-02	421792.08	1510881.53	5-12	10:38	54.89	REDO GAUGE FOR TD
<b>Bright Star Dairy (DP-340)</b>						
340-01	421410.13	1511423.42	5-12	11:17	43.49	47.8
340-02	420641.08	1512051.57	5-12	11:48	32.77	56.7
<b>Gonzalez Dairy (DP-177)</b>						
177-01	417300.94	1512942.63	5-13	7:42	18.53	25.37
177-02	416738.21	1513246.51	5-13	7:36	19.29	25.4
177-03A	416211.35	1513814.71	5-12	13:05	21.6	47.4
177-04	416796.99	1513733.28	5-13	7:15	25.46	46.32
177-05	417302.42	1514116.55	5-13	7:25	37.6	49.0
177-06	417301.84	1514765.63	5-12	12:45	0	51.9
177-07R	415258.95	1515471.64	5-13	7:35	46.66	54.3
<b>Dominguez 2 Dairy (DP-42)</b>						
42-02	419982.45	1511126.19	5-13	8:30	85.22	Pump
42-03	419710.55	1514064.35	5-13	8:30	28.68	↓
42-06	420021.61	1511465.15	5-13	8:44	34.5	
42-07	420584.80	1513076.66	5-13	8:57	DRY	
42-08	419994.93	1511197.91	5-13	9:04	36.68	
42-09	419729.17	1512255.76	5-13	8:50	49.85	
42-10	421426.39	1514460.40	5-13	9:25	115.15	
42-11	420693.98	1515270.32	5-13	9:30	125.27	
42-12	420972.09	1515423.88	5-13	9:38	131.63	
42-13	419734.06	1512534.42	5-13	8:38	57.95	

**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	5-12	14:00	27.38	46.7
624-02	417335.25	1512201.42	5-12	14:11	19.0	37.45
624-04	418542.24	1508104.07	5-12	13:47	0	17.5 DRY
624-05	419777.52	1509829.65	5-12	13:40	0	17.4 DRY
624-06	418502.42	1513981.08	5-12	13:33	0	52.23 DRY
624-07	418012.23	1514707.77	5-12	13:25	55.75	55.7
624-08	421461.78	1507712.04	5-12	13:58	0	19.4 DRY
<b>CENTRAL AREA</b>						
<b>Buena Vista Dairy II (DP-74)</b>						
74-01	405434.93	1519310.15				
74-02	404574.08	1519035.52				
74-03	407163.61	1516711.72				
74-04	405488.65	1519864.48				
74-05	404747.71	1519885.30				
<b>River Valley Dairy (DP-167)</b>						
167-01	402518.37	1518459.71				gauge only/do not sample
167-01A	402518.18	1518936.72				
167-02	402498.30	1519354.81				
167-03	402981.73	1519415.73				
167-04	402032.19	1519884.60				
167-05	397947.44	1520446.03				
167-06	404479.35	1519603.88				
167-07	402562.23	1518480.34				
167-08	399352.96	1519889.65				
167-09	398473.95	1519259.34				
<b>Big Sky Dairy (DP-833)</b>						
833-01	399617.23	1521136.33				
833-02	401200.32	1520639.92				
833-03	401392.09	1521955.23				
833-04	402898.52	1520659.33				
833-05	399712.39	1522374.73				
833-06	402219.48	1522652.04				
833-07	399298.80	1522082.75				
833-08	400535.64	1521938.23				
833-09	398280.67	1520918.52				
833-10	396715.89	1520283.60				
<b>Sunset/Desert Land Dairy (DP-257)</b>						
257-01	395856.31	1520572.16				
257-02	394728.34	1521030.29				
257-03	397935.69	1518746.14				
257/260-01	397678.36	1519948.22				

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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				
624-02	417335.25	1512201.42				
624-04	418542.24	1508104.07				
624-05	419777.52	1509829.65				
624-06	418502.42	1513981.08				
624-07	418012.23	1514707.77				
624-08	421461.78	1507712.04				
<b>CENTRAL AREA</b>						
<b>Buena Vista Dairy II (DP-74)</b>						
74-01	405434.93	1519310.15	5/12/14	8:59	36.45	45.17
74-02	404574.08	1519035.52	5/12/14	9:32	14.56	20.14
74-03	407163.61	1516711.72	5/12/14	8:50	16.29	20.16
74-04	405488.65	1519864.48	5/12/14	9:09	46.57	57.86
74-05	404747.71	1519885.30	5/12/14	9:20	39.53	56.87
<b>River Valley Dairy (DP-167)</b>						
167-01	402518.37	1518459.71	5/12/14	10:03	18.76	107.18 gauge only/do not sample
167-01A	402518.18	1518936.72	5/12/14	10:18	15.43	25.22
167-02	402498.30	1519354.81	5/12/14	10:24	16.58	20.89
167-03	402981.73	1519415.73	5/12/14	9:56	21.78	40.88
167-04	402032.19	1519884.60	5/12/14	10:30	23.91	30.08
167-05	397947.44	1520446.03	5/12/14	10:36	14.27	21.74
167-06	404479.35	1519603.88	5/12/14	9:47	31.91	35.67
167-07	402562.23	1518480.34	5/12/14	10:09	18.92	25.00
167-08	399352.96	1519889.65	5/12/14	10:49	15.98	30.97
167-09	398473.95	1519259.34	5/12/14	10:54	15.19	19.70
<b>Big Sky Dairy (DP-833)</b>						
833-01	399617.23	1521136.33	5/12/14	11:51	DRY	36.41
833-02	401200.32	1520639.92	5/12/14	11:06	36.37	57.74
833-03	401392.09	1521955.23	5/12/14	11:22	DRY	62.70
833-04	402898.52	1520659.33	5/12/14	11:10	41.87	53.68
833-05	399712.39	1522374.73	5/12/14	11:40	63.88	73.79
833-06	402219.48	1522652.04	5/12/14	11:19	73.89	85.09
833-07	399298.80	1522082.75	5/12/14	11:35	59.21	73.45
833-08	400535.64	1521938.23	5/12/14	11:27	58.99	72.84
833-09	398280.67	1520918.52	5/12/14	11:58	25.44	39.34
833-10	396715.89	1520283.60	5/12/14	10:55	20.17	37.09
<b>Sunset/Desert Land Dairy (DP-257)</b>						
257-01	395856.31	1520572.16	5/12/14	13:20	23.85	25.90
257-02	394728.34	1521030.29	5/12/14	12:53	17.81	20.72
257-03	397935.69	1518746.14	5/12/14	13:53	13.52	13.72
257/260-01	397678.36	1519948.22	5/12/14	13:41	15.33	20.33

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>SOUTHERN AREA</b>						
<b>Del Oro Dairy (DP-692)</b>						
692-01	373615.88	1531529.38	5/13/14	8:08	60.79	has pump
692-02	372984.72	1531192.10	5/13/14	7:14	58.51	66.88
692-04	372982.53	1531555.21	5/13/14	7:20	59.66	60.53
692-05	374807.26	1532403.00	5/13/14	7:31	80.82	has pump
692-06	375054.77	1532411.83	5/13/14	7:39	81.84	92.03
692-07	374944.88	1532019.81	5/13/14	7:46	73.69	has pump
692-08	375535.69	1531378.09	5/13/14	7:54	68.35	has pump
692-09	373575.83	1532395.09	5/13/14	7:26	<del>60.79</del>	has pump 82.72 hitting pump area WD/ha
<b>ADDITIONAL WELLS AND DRAIN CROSSINGS (DAD)</b>						
Bruce1	388741.02	1523777.06	3808.92	5/13/14	time	OTW TO NO KEY TRIP call key
Bruce2	NM	NM	NM			Destroyed
<b>Anthony Waste Water Treatment Plant (DAD)</b>						
MW-1	372097.86	1532364.36	5/13/14	8:34	60.65	62.29
MW-2	NM	NM	5/13/14	8:38	62.06	63.05
MW-3	NM	NM	5/13/14	8:28	DRY	59.00
<b>ABATEMENT PLAN MONITOR WELLS</b>						
✓ DAD-01	422970.59	1512825.76	5/13/14	10:20	71.48	76.2
✓ DAD-02	413002.98	1517319.93	5/13/14	10:29	66.01	68.05
✓ DAD-03	407721.31	1516497.85	5/13/14	10:37	0	13.2 Roots need to be cleared
DAD-04	404576.66	1517413.28	5/13/14	13:15	17.36	18.18
DAD-05	396712.87	1519102.06	5/13/14	11:09	17.24	23.49
DAD-06	404273.19	1522081.00	5/13/14	11:38	Dry	83.54
DAD-07	399270.18	1524320.88	5/13/14	10:21	91.88	100.05
DAD-08	395287.38	1522575.07	5/13/14	10:49	53.98	54.99
DAD-09	373259.30	1530905.70	5/13/14	9:31	56.14	62.01
DAD-10	372980.55	1532375.33	5/13/14	9:09	83.61	94.20
✓ DAD-11			5/12/14	13:00	21.34	35.24
✓ DAD-12			5/12/14	8:59	51.43	79.43
DAD-13			5/13/14	13:41	88.65	91.96
DAD-14			5/13/14	13:52	29.68	42.40
DAD-15			5/13/14	13:29	95.47	109.44
DAD-16			5/13/14	11:51	20.31	32.67
DAD-17			5/13/14	11:16	23.32	38.38
DAD-18			5/13/14	10:56	25.33	57.01
DAD-19			5/13/14	10:39	65.26	99.19
DAD-20			5/13/14	9:00	54.20	69.00
DAD-21			5/13/14	9:23	56.42	70.09
DAD-22			5/13/14	9:45	46.56	50.07

**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				
624-02	417335.25	1512201.42				
624-04	418542.24	1508104.07				
624-05	419777.52	1509829.65				
624-06	418502.42	1513981.08				
624-07	418012.23	1514707.77				
624-08	421461.78	1507712.04				
<b>CENTRAL AREA</b>						
<b>Buena Vista Dairy II (DP-74)</b>						
74-01	405434.93	1519310.15	6/18/14	10:10	37.09	45.16
74-02	404574.08	1519035.52		10:16	18.13	20.17
74-03	407163.61	1516711.72		9:57	16.73	20.11
74-04	405488.65	1519864.48		9:45	49.35	57.81
74-05	404747.71	1519885.30		9:35	42.73	56.86
<b>River Valley Dairy (DP-167)</b>						
167-01	402518.37	1518459.71		11:50	19.77	107.09 gauge only/do not sample
167-01A	402518.18	1518936.72		11:37	19.65	25.21
167-02	402498.30	1519354.81		11:00	Dry	20.80
167-03	402981.73	1519415.73		11:54	25.84	40.84
167-04	402032.19	1519884.60		10:44	27.94	30.19
167-05	397947.44	1520446.03		2:32	17.19	21.52
167-06	404479.35	1519603.88		10:37	32.63	35.68
167-07	402562.23	1518480.34		11:42	19.76	25.01
167-08	399352.96	1519889.65		11:20	19.71	30.92
167-09	398473.95	1519259.34		11:12	17.69	19.88
<b>Big Sky Dairy (DP-833)</b>						
833-01	399617.23	1521136.33		3:12	Dry	36.37
833-02	401200.32	1520639.92		12:29	36.72	57.67
833-03	401392.09	1521955.23		12:20	Dry	62.69
833-04	402898.52	1520659.33		12:08	45.07	53.65
833-05	399712.39	1522374.73		12:59	66.83	73.69
833-06	402219.48	1522652.04		12:39	76.18	85.08
833-07	399298.80	1522082.75		1:08	62.58	73.28
833-08	400535.64	1521938.23		12:53	62.07	72.92
833-09	398280.67	1520918.52		1:21	28.71	39.47
833-10	396715.89	1520283.60		1:37	22.37	37.01
<b>Sunset/Desert Land Dairy (DP-257)</b>						
257-01	395856.31	1520572.16		1:42	22.67	25.87
257-02	394728.34	1521030.29		1:56	17.87	20.71
257-03	397935.69	1518746.14		2:11	12.21	13.76
257/260-01	397678.36	1519948.22	✓	2:47	14.53	21.15
<b>SOUTHERN AREA</b>						
<b>Del Oro Dairy (DP-692)</b>						

**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

John DeRuyter  
Mountain View Dairy  
13090 Stern Drive  
P.O. Box 345  
Mesquite, NM, 88048

Report Date: May 20, 2014

Work Order: 14051430



DP: 70  
Project Location: 13090 Stern Dr., Mesquite, NM  
Project Name: Mountain View 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
362892	70-02	water	2014-05-14	13:56	2014-05-14

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.

This report consists of a total of 14 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  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2014-05-14 and assigned to work order 14051430. Samples for work order 14051430 were received intact at a temperature of 4.0 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	94689	2014-05-14 at 18:29	111987	2014-05-14 at 18:29
NO3 (IC)	E 300.0	94689	2014-05-14 at 18:29	111987	2014-05-14 at 18:29
SO4 (IC)	E 300.0	94689	2014-05-14 at 18:29	111987	2014-05-14 at 18:29
TDS	SM 2540C	94685	2014-05-15 at 09:00	111981	2014-05-15 at 09:00
TKN	SM 4500-NH3 B,C	94756	2014-05-19 at 09:30	112071	2014-05-19 at 13:40

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 14051430 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: 362892 - 70-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>781</b>	<b>781</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 362892 - 70-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 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	<b>37.0</b>	<b>37.0</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 362892 - 70-02**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	<b>470</b>	<b>470</b>	<0.260	mg/L	10	0.260	2.5	0.026

**Sample: 362892 - 70-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 111981 Date Analyzed: 2014-05-15 Analyzed By: MC  
 Prep Batch: 94685 Sample Preparation: 2014-05-15 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3220</b>	<b>3220</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 362892 - 70-02**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112071

Prep Batch: 94756

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-05-19

Sample Preparation: 2014-05-19

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	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 111981  
Prep Batch: 94685Date Analyzed: 2014-05-15  
QC Preparation: 2014-05-15Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

### Method Blank (1)

QC Batch: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Report Date: May 20, 2014

Work Order: 14051430  
Mountain View Dairy

Page Number: 7 of 14  
13090 Stern Dr., Mesquite, NM

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Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0260	mg/L	0.026

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**Method Blank (1)**

QC Batch: 112071  
Prep Batch: 94756

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 362892

QC Batch: 111981  
Prep Batch: 94685

Date Analyzed: 2014-05-15  
QC Preparation: 2014-05-15

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3140	3220	mg/L	1	2	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 111981  
Prep Batch: 94685Date Analyzed: 2014-05-15  
QC Preparation: 2014-05-15Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1020	mg/L	1	1000	<2.50	102	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	1030	mg/L	1	1000	<2.50	103	90 - 110	1	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: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.0	mg/L	1	25.0	<0.0238	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
Chloride		1	24.9	mg/L	1	25.0	<0.0238	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: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.97	mg/L	1	5.00	<0.0374	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.96	mg/L	1	5.00	<0.0374	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: 111987  
Prep Batch: 94689

Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfate		1	25.1	mg/L	1	25.0	<0.0260	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	25.0	mg/L	1	25.0	<0.0260	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: 112071  
Prep Batch: 94756

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

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	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	3	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: 363134

QC Batch: 112071  
Prep Batch: 94756

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

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	43.4	mg/L	1	50.0	2.1	83	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
Total Kjeldahl Nitrogen - N		2	48.3	mg/L	1	50.0	2.1	97	80 - 120	11	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: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	23.6	94	90 - 110	2014-05-14

### Standard (CCV-2)

QC Batch: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.70	94	90 - 110	2014-05-14

### Standard (CCV-2)

QC Batch: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.8	95	90 - 110	2014-05-14

### Standard (CCV-1)

QC Batch: 112071

Date Analyzed: 2014-05-19

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	mg/L	5.00	4.90	98	85 - 115	2014-05-19

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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	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.0625	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

14051430

Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

# TraceAnalysis, Inc.

Company Name: **D&H Petroleum & Environmental Services**  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: **Victor Ayala**  
 Phone #: 915-859-8150  
 Cell #: **915-859-8150**  
 Fax #: **915-859-8150**  
 E-mail: **vayala@dhppump.com**

Invoice to (if different from above):  
**Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048**  
 Project #: **441981**  
 Project Name: **Mountain View Dairy**  
 John DeRuyter 575-233-3899  
 Sampler Signature: *Jub*

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	TIME
	70-01	1		X				X		X		X			
	70-01	1		X				X		X		X			
	302 892-70-02	1		X				X		X		X	5-14-14	13:56	
	1-20-70-02	1		X				X		X		X	5-14-14	13:56	
	70-03	1		X				X		X		X			
	70-03	1		X				X		X		X			
	70-04	1		X				X		X		X			
	70-04	1		X				X		X		X			
	70 Lagoon	1		X				X		X		X			
	70 Lagoon	1		X				X		X		X			
	70 Lagoon	1		X				X		X		X			
	North Stormwater Lagoon	1		X				X		X		X			
	North Stormwater Lagoon	1		X				X		X		X			
	North Stormwater Lagoon	1		X				X		X		X			

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Lab Use Only
Jub	5-14-14	14:35	Danny deHaro	5-14-14	14:50	Headspace Y / N Temp 4.0 Log-in Review <input checked="" type="checkbox"/>
Dz de H	5-14-14	16:30	Adge TA	5/15/14	9:00	

Chain-of-Custody and Analysis Request  
 LAB Order ID # **14051430**

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			

Remarks: **UE SS. 485 90398**  
 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

John DeRuyter  
Mountain View Dairy  
13090 Stern Drive  
P.O. Box 345  
Mesquite, NM, 88048

Report Date: May 20, 2014

Work Order: 14051430



DP: 70  
Project Location: 13090 Stern Dr., Mesquite, NM  
Project Name: Mountain View 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
362892	70-02	water	2014-05-14	13:56	2014-05-14

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.

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*For inorganic analyses, the term MQL should actually read PQL.*

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2014-05-14 and assigned to work order 14051430. Samples for work order 14051430 were received intact at a temperature of 4.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
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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 14051430 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: 362892 - 70-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>781</b>	<b>781</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 362892 - 70-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 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	<b>37.0</b>	<b>37.0</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 362892 - 70-02**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	<b>470</b>	<b>470</b>	<0.260	mg/L	10	0.260	2.5	0.026

**Sample: 362892 - 70-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 111981 Date Analyzed: 2014-05-15 Analyzed By: MC  
 Prep Batch: 94685 Sample Preparation: 2014-05-15 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3220</b>	<b>3220</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 362892 - 70-02**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112071

Prep Batch: 94756

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-05-19

Sample Preparation: 2014-05-19

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	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 111981  
Prep Batch: 94685Date Analyzed: 2014-05-15  
QC Preparation: 2014-05-15Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

### Method Blank (1)

QC Batch: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Report Date: May 20, 2014

Work Order: 14051430  
Mountain View Dairy

Page Number: 7 of 14  
13090 Stern Dr., Mesquite, NM

---

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0260	mg/L	0.026

---

**Method Blank (1)**

QC Batch: 112071  
Prep Batch: 94756

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 362892

QC Batch: 111981  
 Prep Batch: 94685

Date Analyzed: 2014-05-15  
 QC Preparation: 2014-05-15

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3140	3220	mg/L	1	2	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 111981  
Prep Batch: 94685Date Analyzed: 2014-05-15  
QC Preparation: 2014-05-15Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1020	mg/L	1	1000	<2.50	102	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	1030	mg/L	1	1000	<2.50	103	90 - 110	1	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: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.0	mg/L	1	25.0	<0.0238	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
Chloride		1	24.9	mg/L	1	25.0	<0.0238	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: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.97	mg/L	1	5.00	<0.0374	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.96	mg/L	1	5.00	<0.0374	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: 111987  
Prep Batch: 94689

Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfate		1	25.1	mg/L	1	25.0	<0.0260	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	25.0	mg/L	1	25.0	<0.0260	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: 112071  
Prep Batch: 94756

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

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	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	3	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: 363134

QC Batch: 112071  
Prep Batch: 94756

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

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	43.4	mg/L	1	50.0	2.1	83	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
Total Kjeldahl Nitrogen - N		2	48.3	mg/L	1	50.0	2.1	97	80 - 120	11	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: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	23.6	94	90 - 110	2014-05-14

### Standard (CCV-2)

QC Batch: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.70	94	90 - 110	2014-05-14

### Standard (CCV-2)

QC Batch: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	23.8	95	90 - 110	2014-05-14

### Standard (CCV-1)

QC Batch: 112071

Date Analyzed: 2014-05-19

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	mg/L	5.00	4.90	98	85 - 115	2014-05-19

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.0625	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

14051430

**TraceAnalysis, Inc.**  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**  
Page 1 of 1  
LAB Order ID # 14051430

**Company Name:** D&H Petroleum & Environmental Services  
**Address:** (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907  
**Contact Person:** Victor Ayala  
**Phone #:** 915-859-8150  
**Cell #:**  
**Fax #:**  
**E-mail:** vayala@dhpump.com

**Project #:** 441981  
**Project Name:** Mountain View Dairy  
**Sampler Signature:** July

**Project Location (including state):** Mountain View Dairy, 13090 Stern Drive, Mesquite, NM  
**Volume/Amount:** # Containers

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		
70-01		1		X				X				X					
70-01		1		X				X				X					
302 892-70-02		1		X				X				X		5-14-14	13:56		
1-20 70-02		1		X				X				X		5-14-14	13:56		
70-03		1		X				X				X					
70-03		1		X				X				X					
70-04		1		X				X				X					
70-04		1		X				X				X					
70-Lagoon		1		X				X				X					
70-Lagoon		1		X				X				X					
70-Lagoon		1		X				X				X					
North Stormwater Lagoon		1		X				X				X					
North Stormwater Lagoon		1		X				X				X					
North Stormwater Lagoon		1		X				X				X					

ANALYSIS REQUEST	Lab Use Only		Remarks:
	Y / M / D	Time	
TX 1005 Extended (C35)	5-14-14	14:35	WE SS 48590398 Log-in Review Dry Weight Basis Required TRRP Report Required
TPH 418.1 / TX1005	5-14-14	14:50	
BTEX 8021B/602	5-14-14	14:50	
MTBE 8021B/602	5-14-14	14:50	
PAH 8270C	5-14-14	14:50	
PAH 8270 (Low Level Analysis)	5-14-14	14:50	
Phosphorus SM 4500	5-14-14	14:50	
Nitrates EPA 300	5-14-14	14:50	
Total Kjeldahl Nitrogen SM 4500 NORG C	5-14-14	14:50	
Chloride EPA 300.0	5-14-14	14:50	
Total Dissolved Solids SM 2540 C MOD	5-14-14	14:50	
Sulfate EPA Method 300.0	5-14-14	14:50	
Total Sulfur	5-14-14	14:50	
Turn Around Time	5-14-14	14:50	
Hold	5-14-14	14:50	

Relinquished By: July Date: 5-14-14 Time: 14:35  
Relinquished By: Dg Date: 5-14-14 Time: 16:30



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

Tim Hyde  
 Bright Star Dairy  
 13520 Stern Dr.  
 P.O. Box 167  
 Mesquite, NM, 88048

Report Date: May 20, 2014

Work Order: 14051432



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
362893	340-1	water	2014-05-14	12:35	2014-05-14
362894	340-2	water	2014-05-14	13:12	2014-05-14
362895	70/86/340	water	2014-05-14	11:55	2014-05-14
362896	86/340	water	2014-05-14	10:40	2014-05-14
362897	340 Lagoon	water	2014-05-14	12:45	2014-05-14

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.

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.*

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2014-05-14 and assigned to work order 14051432. Samples for work order 14051432 were received intact at a temperature of 4.0 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	94689	2014-05-14 at 18:29	111987	2014-05-14 at 18:29
NO3 (IC)	E 300.0	94689	2014-05-14 at 18:29	111987	2014-05-14 at 18:29
TDS	SM 2540C	94685	2014-05-15 at 09:00	111981	2014-05-15 at 09:00
TKN	SM 4500-NH3 B,C	94756	2014-05-19 at 09:30	112071	2014-05-19 at 13:40

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 14051432 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: 362893 - 340-1**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>608</b>	<b>608</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 362893 - 340-1**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 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	<b>27.4</b>	<b>27.4</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 362893 - 340-1**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 111981 Date Analyzed: 2014-05-15 Analyzed By: MC  
 Prep Batch: 94685 Sample Preparation: 2014-05-15 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	<b>2770</b>	<b>2770</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 362893 - 340-1**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112071 Date Analyzed: 2014-05-19 Analyzed By: CF  
 Prep Batch: 94756 Sample Preparation: 2014-05-19 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	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 362894 - 340-2**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 111987      Date Analyzed: 2014-05-14      Analyzed By: JR  
 Prep Batch: 94689      Sample Preparation: 2014-05-14      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>793</b>	<b>793</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 362894 - 340-2**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 111987      Date Analyzed: 2014-05-14      Analyzed By: JR  
 Prep Batch: 94689      Sample Preparation: 2014-05-14      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>84.6</b>	<b>84.6</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 362894 - 340-2**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 111981      Date Analyzed: 2014-05-15      Analyzed By: MC  
 Prep Batch: 94685      Sample Preparation: 2014-05-15      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	<b>3130</b>	<b>3130</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 362894 - 340-2**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112071 Date Analyzed: 2014-05-19 Analyzed By: CF  
 Prep Batch: 94756 Sample Preparation: 2014-05-19 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	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 362895 - 70/86/340**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1830</b>	<b>1830</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 362895 - 70/86/340**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>6.56</b>	<b>6.56</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 362895 - 70/86/340**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 111981 Date Analyzed: 2014-05-15 Analyzed By: MC  
 Prep Batch: 94685 Sample Preparation: 2014-05-15 Prepared By: MC

*continued . . .*

sample 362895 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	4500	4500	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 362895 - 70/86/340**

Laboratory: Lubbock  
 Analysis: TKN                      Analytical Method: SM 4500-NH3 B,C                      Prep Method: N/A  
 QC Batch: 112071                      Date Analyzed: 2014-05-19                      Analyzed By: CF  
 Prep Batch: 94756                      Sample Preparation: 2014-05-19                      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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 362896 - 86/340**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 111987                      Date Analyzed: 2014-05-14                      Analyzed By: JR  
 Prep Batch: 94689                      Sample Preparation: 2014-05-14                      Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	500	500	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 362896 - 86/340**

Laboratory: El Paso  
 Analysis: NO3 (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 111987                      Date Analyzed: 2014-05-14                      Analyzed By: JR  
 Prep Batch: 94689                      Sample Preparation: 2014-05-14                      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	15.4	15.4	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 362896 - 86/340**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 111981 Date Analyzed: 2014-05-15 Analyzed By: MC  
 Prep Batch: 94685 Sample Preparation: 2014-05-15 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	2380	2380	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 362896 - 86/340**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112071 Date Analyzed: 2014-05-19 Analyzed By: CF  
 Prep Batch: 94756 Sample Preparation: 2014-05-19 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 362897 - 340 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	924	924	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 362897 - 340 Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 111987 Date Analyzed: 2014-05-14 Analyzed By: JR  
 Prep Batch: 94689 Sample Preparation: 2014-05-14 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	<b>1.73</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 362897 - 340 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 111981 Date Analyzed: 2014-05-15 Analyzed By: MC  
 Prep Batch: 94685 Sample Preparation: 2014-05-15 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	<b>5240</b>	<b>5240</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 362897 - 340 Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112071 Date Analyzed: 2014-05-19 Analyzed By: CF  
 Prep Batch: 94756 Sample Preparation: 2014-05-19 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	<b>151</b>	<b>151</b>	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 111981  
Prep Batch: 94685Date Analyzed: 2014-05-15  
QC Preparation: 2014-05-15Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

### Method Blank (1)

QC Batch: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112071  
Prep Batch: 94756Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: CF  
Prepared By: CF

Report Date: May 20, 2014

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Bright Star Dairy

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13250 Stern Dr, Mesquite, NM

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---



# Duplicates

**Duplicate (1)**    Duplicated Sample: 362892

QC Batch: 111981  
Prep Batch: 94685

Date Analyzed: 2014-05-15  
QC Preparation: 2014-05-15

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3140	3220	mg/L	1	2	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 111981  
Prep Batch: 94685Date Analyzed: 2014-05-15  
QC Preparation: 2014-05-15Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1020	mg/L	1	1000	<2.50	102	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	1030	mg/L	1	1000	<2.50	103	90 - 110	1	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: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.0	mg/L	1	25.0	<0.0238	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
Chloride		1	24.9	mg/L	1	25.0	<0.0238	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: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.97	mg/L	1	5.00	<0.0374	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							
Nitrate-N		1	4.96	mg/L	1	5.00	<0.0374	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: 112071  
Prep Batch: 94756

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

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	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	3	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: 362896QC Batch: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2150	mg/L	62.5	1560	500	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2140	mg/L	62.5	1560	500	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: 362896QC Batch: 111987  
Prep Batch: 94689Date Analyzed: 2014-05-14  
QC Preparation: 2014-05-14Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	328	mg/L	62.5	312	15.4	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	327	mg/L	62.5	312	15.4	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: 363134QC Batch: 112071  
Prep Batch: 94756Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	2.1	83	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
Total Kjeldahl Nitrogen - N		2	48.3	mg/L	1	50.0	2.1	97	80 - 120	11	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: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	23.6	94	90 - 110	2014-05-14

### Standard (CCV-2)

QC Batch: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.70	94	90 - 110	2014-05-14

### Standard (CCV-3)

QC Batch: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	23.6	94	90 - 110	2014-05-14

### Standard (CCV-3)

QC Batch: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.71	94	90 - 110	2014-05-14

**Standard (CCV-4)**

QC Batch: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	23.7	95	90 - 110	2014-05-14

**Standard (CCV-4)**

QC Batch: 111987

Date Analyzed: 2014-05-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.73	95	90 - 110	2014-05-14

**Standard (CCV-1)**

QC Batch: 112071

Date Analyzed: 2014-05-19

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	mg/L	5.00	4.90	98	85 - 115	2014-05-19

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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

Joe Gonzalez  
 Gonzalez Farmes  
 14310 Stern Drive  
 P.O. Box 199  
 Mesquite, NM, 88048

Report Date: May 23, 2014

Work Order: 14051616



DP: 177  
 Project Location: 14310 Stern Dr., Mesquite, NM  
 Project Name: Gonzalez Farmes

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
363262	177-01	water	2014-05-16	11:40	2014-05-16
363263	177-02	water	2014-05-16	12:20	2014-05-16

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.

This report consists of a total of 16 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  
 Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Gonzalez Farmes were received by TraceAnalysis, Inc. on 2014-05-16 and assigned to work order 14051616. Samples for work order 14051616 were received intact at a temperature of 2.0 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	94746	2014-05-17 at 02:26	112057	2014-05-17 at 02:26
NO3 (IC)	E 300.0	94746	2014-05-17 at 02:26	112057	2014-05-17 at 02:26
TDS	SM 2540C	94833	2014-05-21 at 11:20	112168	2014-05-21 at 11:20
TKN	SM 4500-NH3 B,C	94818	2014-05-21 at 12:00	112150	2014-05-21 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 14051616 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: 363262 - 177-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1380</b>	<b>1380</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363262 - 177-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>33.8</b>	<b>33.8</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363262 - 177-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112168 Date Analyzed: 2014-05-21 Analyzed By: MC  
 Prep Batch: 94833 Sample Preparation: 2014-05-21 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	<b>3840</b>	<b>3840</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363262 - 177-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
 Prep Batch: 94818 Sample Preparation: 2014-05-21 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	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363263 - 177-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>803</b>	<b>803</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363263 - 177-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>43.0</b>	<b>43.0</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363263 - 177-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112168 Date Analyzed: 2014-05-21 Analyzed By: MC  
 Prep Batch: 94833 Sample Preparation: 2014-05-21 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	<b>2980</b>	<b>2980</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363263 - 177-02**

Report Date: May 23, 2014

Work Order: 14051616  
Gonzalez Farmes

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Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-05-21	Analyzed By:	CF
QC Batch:	112150	Sample Preparation:	2014-05-21	Prepared By:	CF
Prep Batch:	94818				

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

---



## Method Blanks

### Method Blank (1)

QC Batch: 112057  
Prep Batch: 94746Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

### Method Blank (1)

QC Batch: 112057  
Prep Batch: 94746Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.251	mg/L	0.0374

### Method Blank (1)

QC Batch: 112150  
Prep Batch: 94818Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

### Method Blank (1)

QC Batch: 112168  
Prep Batch: 94833Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: MC  
Prepared By: MC

Report Date: May 23, 2014

Work Order: 14051616  
Gonzalez Farmes

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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 363254

QC Batch: 112168  
Prep Batch: 94833

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2040	2170	mg/L	1	6	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112057  
Prep Batch: 94746Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	26.1	mg/L	1	25.0	<0.0238	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	26.2	mg/L	1	25.0	<0.0238	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: 112057  
Prep Batch: 94746Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	5.13	mg/L	1	5.00	<0.0374	103	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: 112150  
Prep Batch: 94818Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	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: 112168  
Prep Batch: 94833

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	998	mg/L	1	1000	<2.50	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	1020	mg/L	1	1000	<2.50	102	90 - 110	2	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: 363362

QC Batch: 112150  
Prep Batch: 94818

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

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	44.1	mg/L	1	50.0	<1.80	88	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
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	80 - 120	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: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-17

### Standard (CCV-2)

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-05-17

### Standard (CCV-3)

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-05-17

### Standard (CCV-3)

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-05-17

**Standard (CCV-4)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.2	101	90 - 110	2014-05-17

**Standard (CCV-4)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-05-17

**Standard (CCV-1)**

QC Batch: 112150

Date Analyzed: 2014-05-21

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	mg/L	5.00	4.76	95	85 - 115	2014-05-21



---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.**  
 Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

**Company Name:** D&H Petroleum & Environmental Services  
**Address:** (Street, City, Zip)  
 1221 Tower Trail Ln, El Paso TX 79907  
**Contact Person:** Victor Ayala  
**Phone #:** 915-859-8150  
**Cell #:**  
**Fax #:**  
**E-mail:** vajala@dhpump.com

**Project #:** 44197A  
**Project Name:** Joe Gonzalez 575-233-4801  
 Gonzalez Dairy, PO Box 199, Mesquite, NM 88048  
**Sampler Signature:** *JGB*

**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
36262	1	177-01	1		X				X					5-16-14	11:40
1-2	1	177-01	1		X				X					11:40	
36263-1	1	177-02	1		X				X					12:20	
1-2	1	177-02	1		X				X					12:20	
<del>177-02</del>															
<del>177-03</del>															
<del>177-04</del>															
<del>177-04</del>															
<del>177-05</del>															
<del>177-06</del>															
<del>177-06</del>															
<del>177-06</del>															
<del>177-07</del>															
<del>177-08</del>															

**Relinquished By:** *JGB* Date: 5-16-14 Time: 12:50  
**Received By:** *D-706H* Date: 5-16-14 Time: 12:50

**Relinquished By:** *D-706H* Date: 5-16-14 Time: 16:30  
**Received By:** *JGB* Date: 5-16-14 Time: 16:30

**Lab Use Only**  
 Intact  Y  N  
 Headspace  Y  N  
 Temp *12.1*  *31.2*  *5*  
 Log-in Review

**Remarks:** *NE*

**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

Turn Around Time

Hold



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  
Organ Dairy LLC

Report Date: May 27, 2014

P.O. Box 130  
Mesilla Park, NM, 88047

Work Order: 14051615



Project Location: 12560 Stern Dr., Mesquite, NM  
Project Name: Organ Dairy  
Project Number: N/A

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
363254	126-7	water	2014-05-16	10:43	2014-05-16

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.

This report consists of a total of 15 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  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Organ Dairy were received by TraceAnalysis, Inc. on 2014-05-16 and assigned to work order 14051615. Samples for work order 14051615 were received intact at a temperature of 2.0 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	94746	2014-05-17 at 02:26	112057	2014-05-17 at 02:26
NO3 (IC)	E 300.0	94746	2014-05-17 at 02:26	112057	2014-05-17 at 02:26
TDS	SM 2540C	94833	2014-05-21 at 11:20	112168	2014-05-21 at 11:20
TKN	SM 4500-NH3 B,C	94818	2014-05-21 at 12:00	112150	2014-05-21 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 14051615 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: 363254 - 126-7

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>583</b>	<b>583</b>	<1.19	mg/L	50	1.19	2.5	0.0238

## Sample: 363254 - 126-7

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>24.8</b>	<b>24.8</b>	<0.187	mg/L	5	0.187	0.5	0.0374

## Sample: 363254 - 126-7

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112168 Date Analyzed: 2014-05-21 Analyzed By: MC  
 Prep Batch: 94833 Sample Preparation: 2014-05-21 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	<b>2170</b>	<b>2170</b>	<2.50	mg/L	1	2.50	2.5	2.5

## Sample: 363254 - 126-7

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
 Prep Batch: 94818 Sample Preparation: 2014-05-21 Prepared By: CF

Report Date: May 27, 2014  
N/A

Work Order: 14051615  
Organ Dairy

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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	J	2	<b>4.90</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

---



## Method Blanks

### Method Blank (1)

QC Batch: 112057  
Prep Batch: 94746

Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

### Method Blank (1)

QC Batch: 112057  
Prep Batch: 94746

Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.251	mg/L	0.0374

### Method Blank (1)

QC Batch: 112150  
Prep Batch: 94818

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

### Method Blank (1)

QC Batch: 112168  
Prep Batch: 94833

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: MC  
Prepared By: MC

Report Date: May 27, 2014  
N/A

Work Order: 14051615  
Organ Dairy

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12560 Stern Dr., Mesquite, NM

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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

# Duplicates

Duplicate (1) Duplicated Sample: 363254

QC Batch: 112168  
Prep Batch: 94833

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2040	2170	mg/L	1	6	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112057  
Prep Batch: 94746

Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	26.1	mg/L	1	25.0	<0.0238	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	26.2	mg/L	1	25.0	<0.0238	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: 112057  
Prep Batch: 94746

Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	5.13	mg/L	1	5.00	<0.0374	103	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: 112150  
Prep Batch: 94818

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: May 27, 2014  
N/A

Work Order: 14051615  
Organ Dairy

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Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	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: 112168  
Prep Batch: 94833

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	998	mg/L	1	1000	<2.50	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	1020	mg/L	1	1000	<2.50	102	90 - 110	2	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: 363362

QC Batch: 112150  
 Prep Batch: 94818

Date Analyzed: 2014-05-21  
 QC Preparation: 2014-05-21

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	44.1	mg/L	1	50.0	<1.80	88	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
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	80 - 120	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: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-17

### Standard (CCV-2)

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-05-17

### Standard (CCV-3)

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-05-17

### Standard (CCV-3)

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-05-17

Report Date: May 27, 2014  
N/A

Work Order: 14051615  
Organ Dairy

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**Standard (CCV-1)**

QC Batch: 112150

Date Analyzed: 2014-05-21

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	mg/L	5.00	4.76	95	85 - 115	2014-05-21

---



## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.  
 Lubbock, TX 79424  
 Tel (806) 794-1298  
 Fax (806) 794-1298

Paso, TX 79932  
 Tel (916) 565-3443  
 Fax (916) 565-4944

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
 Page 1 of 1

Company Name: D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: Victor Ayala  
 Phone #: 915-859-8150  
 Cell #: yavala@dhpump.com  
 Fax #: yavala@dhpump.com  
 E-mail: yavala@dhpump.com

LAB Order ID # 14051615  
 ANALYSIS REQUEST  
 Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7  
 PAH 8270 (Low Level Analysis)  
 PAH 8270C  
 TX 1005 Extended (C35)  
 TPH 418.1 / TX1005  
 BTEX 8021B/602  
 MTBE 8021B/602

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		
408-1		1		X				X				X					
408-1		1		X				X				X					
408-5		1		X				X				X					
408-5		1		X				X				X					
363269	128-7	1	500	X				X				X		5-16-14	10:43		
128-7		1	250	X				X				X		5-16-14	10:43		
408-0		1		X				X				X					
408-0		1		X				X				X					
408-40		1		X				X				X					
408-40		1		X				X				X					
408-40		1		X				X				X					
408-40		1		X				X				X					
12010		1		X				X				X					
408-40		1		X				X				X					
10010		1		X				X				X					

Relinquished By: gub Date: 5-16-14 12:50  
 Relinquished By: D-703H Date: 5-16-14 12:50  
 Received By: Date: 5-16-14 16:30  
 Received at Laboratory By: Date: 5-16-14 16:30  
 Lab Use Only  
 Intact  Y  N  
 Headspace  Y  N/A  
 Temperature  Y  22°C  
 Log-in Review  Y  N  
 Remarks: ICE  
 Dry Weight Basis Required  
 TRRP Report Required  
 5-16-14



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

Joe Gonzalez  
 Gonzalez Farmes  
 14310 Stern Drive  
 P.O. Box 199  
 Mesquite, NM, 88048

Report Date: May 27, 2014

Work Order: 14051926



DP: 177  
 Project Location: 14310 Stern Dr., Mesquite, NM  
 Project Name: Gonzalez Farmes

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
363362	177-03	water	2014-05-19	13:01	2014-05-19
363363	177-04	water	2014-05-19	10:40	2014-05-19
363364	177-05	water	2014-05-19	09:07	2014-05-19
363365	177-07 R	water	2014-05-19	13:54	2014-05-19

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.

This report consists of a total of 20 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.*

*Michael Abel*

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Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Gonzalez Farmes were received by TraceAnalysis, Inc. on 2014-05-19 and assigned to work order 14051926. Samples for work order 14051926 were received intact at a temperature of 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	94775	2014-05-19 at 18:49	112095	2014-05-19 at 18:49
NO3 (IC)	E 300.0	94775	2014-05-19 at 18:49	112095	2014-05-19 at 18:49
TDS	SM 2540C	94833	2014-05-21 at 11:20	112168	2014-05-21 at 11:20
TKN	SM 4500-NH3 B,C	94818	2014-05-21 at 12:00	112150	2014-05-21 at 14:30
TKN	SM 4500-NH3 B,C	94898	2014-05-23 at 09:30	112245	2014-05-23 at 14:25

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 14051926 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: 363362 - 177-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112095 Date Analyzed: 2014-05-19 Analyzed By: JR  
 Prep Batch: 94775 Sample Preparation: 2014-05-19 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>950</b>	<b>950</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363362 - 177-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112095 Date Analyzed: 2014-05-19 Analyzed By: JR  
 Prep Batch: 94775 Sample Preparation: 2014-05-19 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>11.4</b>	<b>11.4</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363362 - 177-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112168 Date Analyzed: 2014-05-21 Analyzed By: MC  
 Prep Batch: 94833 Sample Preparation: 2014-05-21 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	<b>3220</b>	<b>3220</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363362 - 177-03**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
 Prep Batch: 94818 Sample Preparation: 2014-05-21 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	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363363 - 177-04**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112095                              Date Analyzed: 2014-05-19                      Analyzed By: JR  
 Prep Batch: 94775                              Sample Preparation: 2014-05-19                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1320</b>	<b>1320</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363363 - 177-04**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112095                              Date Analyzed: 2014-05-19                      Analyzed By: JR  
 Prep Batch: 94775                              Sample Preparation: 2014-05-19                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>17.5</b>	<b>17.5</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363363 - 177-04**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 112168                              Date Analyzed: 2014-05-21                      Analyzed By: MC  
 Prep Batch: 94833                              Sample Preparation: 2014-05-21                      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	<b>3970</b>	<b>3970</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363363 - 177-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112245 Date Analyzed: 2014-05-23 Analyzed By: CF  
 Prep Batch: 94898 Sample Preparation: 2014-05-23 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	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363364 - 177-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112095 Date Analyzed: 2014-05-19 Analyzed By: JR  
 Prep Batch: 94775 Sample Preparation: 2014-05-19 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1400</b>	<b>1400</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363364 - 177-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112095 Date Analyzed: 2014-05-19 Analyzed By: JR  
 Prep Batch: 94775 Sample Preparation: 2014-05-19 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>35.7</b>	<b>35.7</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363364 - 177-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112168 Date Analyzed: 2014-05-21 Analyzed By: MC  
 Prep Batch: 94833 Sample Preparation: 2014-05-21 Prepared By: MC

*continued . . .*

*sample 363364 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>4000</b>	<b>4000</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363364 - 177-05**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112245

Prep Batch: 94898

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-05-23

Sample Preparation: 2014-05-23

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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363365 - 177-07 R**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112095

Prep Batch: 94775

Analytical Method: E 300.0

Date Analyzed: 2014-05-19

Sample Preparation: 2014-05-19

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	<b>895</b>	<b>895</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363365 - 177-07 R**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112095

Prep Batch: 94775

Analytical Method: E 300.0

Date Analyzed: 2014-05-19

Sample Preparation: 2014-05-19

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	<b>22.7</b>	<b>22.7</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363365 - 177-07 R**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112168 Date Analyzed: 2014-05-21 Analyzed By: MC  
 Prep Batch: 94833 Sample Preparation: 2014-05-21 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	<b>2910</b>	<b>2910</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363365 - 177-07 R**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112245 Date Analyzed: 2014-05-23 Analyzed By: CF  
 Prep Batch: 94898 Sample Preparation: 2014-05-23 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	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112095  
Prep Batch: 94775Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112095  
Prep Batch: 94775Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.197	mg/L	0.0374

### Method Blank (1)

QC Batch: 112150  
Prep Batch: 94818Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

### Method Blank (1)

QC Batch: 112168  
Prep Batch: 94833Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: MC  
Prepared By: MC

Report Date: May 27, 2014

Work Order: 14051926  
Gonzalez Farmes

Page Number: 11 of 20  
14310 Stern Dr., Mesquite, NM

---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

**Method Blank (1)**

QC Batch: 112245  
Prep Batch: 94898

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

# Duplicates

Duplicate (1) Duplicated Sample: 363254

QC Batch: 112168  
Prep Batch: 94833

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2040	2170	mg/L	1	6	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112095  
Prep Batch: 94775Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.8	mg/L	1	25.0	<0.0238	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.9	mg/L	1	25.0	<0.0238	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: 112095  
Prep Batch: 94775Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.84	mg/L	1	5.00	<0.0374	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.85	mg/L	1	5.00	<0.0374	97	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: 112150  
Prep Batch: 94818Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	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: 112168  
Prep Batch: 94833

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	998	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	1020	mg/L	1	1000	<2.50	102	90 - 110	2	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: 112245  
Prep Batch: 94898

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	85 - 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: 363365

QC Batch: 112095  
Prep Batch: 94775Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2440	mg/L	55.6	1390	895	111	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	2430	mg/L	55.6	1390	895	110	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: 363365

QC Batch: 112095  
Prep Batch: 94775Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	295	mg/L	55.6	278	22.7	98	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	295	mg/L	55.6	278	22.7	98	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: 363362

QC Batch: 112150  
Prep Batch: 94818Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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							
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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: 363652

QC Batch: 112245  
Prep Batch: 94898

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	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							
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	80 - 120	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: 112095

Date Analyzed: 2014-05-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-05-19

### Standard (CCV-2)

QC Batch: 112095

Date Analyzed: 2014-05-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-05-19

### Standard (CCV-3)

QC Batch: 112095

Date Analyzed: 2014-05-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-05-19

### Standard (CCV-3)

QC Batch: 112095

Date Analyzed: 2014-05-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-05-19

**Standard (CCV-1)**

QC Batch: 112150

Date Analyzed: 2014-05-21

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	mg/L	5.00	4.76	95	85 - 115	2014-05-21

**Standard (CCV-1)**

QC Batch: 112245

Date Analyzed: 2014-05-23

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	mg/L	5.00	4.76	95	85 - 115	2014-05-23

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.**  
 Lubbock, TX 79424  
 Tel (806) 794-1298  
 Fax (806) 794-1298

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 #: 44197a

Project Location (including state):  
 Gonzalez Dairy, 14310 Stem Dr., Mesquite, NM  
 Project Name: Gonzalez Dairy Inc.  
 Sampler Signature: *July*

LAB #	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
177-01		1		X				X						
177-01		1		X				X						
177-02		1		X				X						
177-02		1		X				X						
177-03		1	500	X				X				5-19-14	13:01	
177-03		1	250	X				X					13:01	
177-04		1	500	X				X					10:40	
177-04		1	250	X				X					10:40	
177-05		1	500	X				X					9:07	
177-05		1	250	X				X					9:07	
177-06		1		X				X						
177-06		1		X				X						
177-07 R		1	500	X				X					13:54	
177-07 R		1	250	X				X					13:54	

Relinquished By: *Victor Ayala* Date: 5-14-14 Time: 14:21  
 Received By: *John P. [Signature]* Date: 5-19-14 Time: 14:21  
 Relinquished By: *John P. [Signature]* Date: 5-19-14 Time: 16:30  
 Received at Laboratory By: *John P. [Signature]* Date: 5-19-14 Time: 14:21

Page 1 of 1  
 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
 LAB Order ID # 14051926

ANALYSIS REQUEST	LAB USE ONLY
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 EPA 300	
TKN SM 4500 NORG C	
Chloride EPA 300	
Total Dissolved Solids SM 2540 C MOD	
Hold	

Lab Use Only  
 Intact  Y  N  
 Headspace  Y  N  
 Temp  O  D  C  
 Log-in Review  P  R  
 Dry Weight Basis Required  P  R  
 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

Linda Armstrong  
 Buena Vista Dairy #2  
 16910 Stern Drive  
 P.O. Box 346  
 Mesquite, NM, 88048

Report Date: May 29, 2014

Work Order: 14052016



DP: 74  
 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
363447	74-01	water	2014-05-20	12:26	2014-05-20
363448	74-02	water	2014-05-20	13:01	2014-05-20
363449	74-03	water	2014-05-20	13:33	2014-05-20
363450	74-Lagoon	water	2014-05-20	13:50	2014-05-20

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.

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.*

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2014-05-20 and assigned to work order 14052016. Samples for work order 14052016 were received intact at a temperature of 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	94854	2014-05-20 at 18:25	112194	2014-05-20 at 18:25
NO3 (IC)	E 300.0	94854	2014-05-20 at 18:25	112194	2014-05-20 at 18:25
TDS	SM 2540C	94905	2014-05-23 at 12:41	112250	2014-05-23 at 12:41
TKN	SM 4500-NH3 B,C	94898	2014-05-23 at 09:30	112245	2014-05-23 at 14:25

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 14052016 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.

This report contains 1 analytes that have been manually integrated.

Sample	Analyte	Flag	Comment
1. 112194 Method Blank-1	Nitrate-N	MI5	Baseline correction

# Analytical Report

**Sample: 363447 - 74-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112194 Date Analyzed: 2014-05-20 Analyzed By: JR  
 Prep Batch: 94854 Sample Preparation: 2014-05-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>816</b>	<b>816</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363447 - 74-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112194 Date Analyzed: 2014-05-20 Analyzed By: JR  
 Prep Batch: 94854 Sample Preparation: 2014-05-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	MI5	1	<b>62.6</b>	<b>62.6</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 363447 - 74-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112250 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94905 Sample Preparation: 2014-05-23 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3080</b>	<b>3080</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363447 - 74-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112245 Date Analyzed: 2014-05-23 Analyzed By: CF  
 Prep Batch: 94898 Sample Preparation: 2014-05-23 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363448 - 74-02**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112194                              Date Analyzed: 2014-05-20                      Analyzed By: JR  
 Prep Batch: 94854                              Sample Preparation: 2014-05-20                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>579</b>	<b>579</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363448 - 74-02**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112194                              Date Analyzed: 2014-05-20                      Analyzed By: JR  
 Prep Batch: 94854                              Sample Preparation: 2014-05-20                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	MI5	1	<b>25.7</b>	<b>25.7</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363448 - 74-02**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 112250                              Date Analyzed: 2014-05-23                      Analyzed By: MC  
 Prep Batch: 94905                              Sample Preparation: 2014-05-23                      Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2230</b>	<b>2230</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363448 - 74-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112245 Date Analyzed: 2014-05-23 Analyzed By: CF  
 Prep Batch: 94898 Sample Preparation: 2014-05-23 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363449 - 74-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112194 Date Analyzed: 2014-05-20 Analyzed By: JR  
 Prep Batch: 94854 Sample Preparation: 2014-05-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1230</b>	<b>1230</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363449 - 74-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112194 Date Analyzed: 2014-05-20 Analyzed By: JR  
 Prep Batch: 94854 Sample Preparation: 2014-05-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	M15	1	<b>3.51</b>	<b>3.51</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363449 - 74-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112250 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94905 Sample Preparation: 2014-05-23 Prepared By: MC

*continued . . .*

*sample 363449 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>4000</b>	<b>4000</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363449 - 74-03**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112245

Prep Batch: 94898

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-05-23

Sample Preparation: 2014-05-23

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	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363450 - 74-Lagoon**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112194

Prep Batch: 94854

Analytical Method: E 300.0

Date Analyzed: 2014-05-20

Sample Preparation: 2014-05-20

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	<b>429</b>	<b>429</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363450 - 74-Lagoon**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112194

Prep Batch: 94854

Analytical Method: E 300.0

Date Analyzed: 2014-05-20

Sample Preparation: 2014-05-20

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	MI5,U	1	<0.187	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363450 - 74-Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112250 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94905 Sample Preparation: 2014-05-23 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	<b>2480</b>	<b>2480</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363450 - 74-Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112245 Date Analyzed: 2014-05-23 Analyzed By: CF  
 Prep Batch: 94898 Sample Preparation: 2014-05-23 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	<b>67.2</b>	<b>67.2</b>	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112194  
Prep Batch: 94854Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

### Method Blank (1)

QC Batch: 112194  
Prep Batch: 94854Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N	MI5	1	0.198	mg/L	0.0374

### Method Blank (1)

QC Batch: 112245  
Prep Batch: 94898Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

### Method Blank (1)

QC Batch: 112250  
Prep Batch: 94905Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: MC  
Prepared By: MC

Report Date: May 29, 2014

Work Order: 14052016  
Buena Vista Dairy #2

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16910 Stern Drive, Mesquite, NM

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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

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# Duplicates

Duplicate (1) Duplicated Sample: 363447

QC Batch: 112250  
 Prep Batch: 94905

Date Analyzed: 2014-05-23  
 QC Preparation: 2014-05-23

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3100	3080	mg/L	1	1	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112194  
Prep Batch: 94854Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.5	mg/L	1	25.0	<0.0238	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.5	mg/L	1	25.0	<0.0238	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: 112194  
Prep Batch: 94854Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.82	mg/L	1	5.00	<0.0374	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.82	mg/L	1	5.00	<0.0374	96	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: 112245  
Prep Batch: 94898Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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: 112250  
Prep Batch: 94905

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	988	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	993	mg/L	1	1000	<2.50	99	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: 363652

QC Batch: 112245  
 Prep Batch: 94898

Date Analyzed: 2014-05-23  
 QC Preparation: 2014-05-23

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	44.8	mg/L	1	50.0	<1.80	90	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
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	80 - 120	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: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-05-20

### Standard (CCV-1)

QC Batch: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-05-20

### Standard (CCV-2)

QC Batch: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.2	101	90 - 110	2014-05-20

### Standard (CCV-2)

QC Batch: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-05-20



**Standard (CCV-3)**

QC Batch: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.0	100	90 - 110	2014-05-20

**Standard (CCV-3)**

QC Batch: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-05-20

**Standard (ICV-1)**

QC Batch: 112245

Date Analyzed: 2014-05-23

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	mg/L	5.00	4.34	87	85 - 115	2014-05-23

**Standard (CCV-1)**

QC Batch: 112245

Date Analyzed: 2014-05-23

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	mg/L	5.00	4.76	95	85 - 115	2014-05-23

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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	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

# 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

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: **DWH Petrochem + Environmental**  
Address: (Street, City, Zip)  
**221 Tower Trallan, El Paso, TX, 79927**  
Contact Person: **VICTOR AYALA**  
Phone #: **95-851-8150**  
Fax #: **95-851-8150**  
E-mail: **vayala@dhump.com**  
Invoice to: **Buena Vista Dairy #2**  
(if different from above) **Buena Vista Dairy #2, PO Box 346, Mesquite, NM 88048**  
Project #: **441987**  
Project Name: **Buena Vista Dairy #2**  
Project Location (including state): **16910 STEAN DRIVE, MESQUITE, NM**  
Sampler Signature: *[Signature]*

## ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	
BTEX 8021 / 602 / 8260 / 624	
TPH 418.1 / TX1005 / TX1005 Ex(C35)	
TPH 8015 GRO / DRO / TVHC	
PAH 8270 / 825	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	
TCP 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	
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	
NITRATES EPA 300	X
TKN SM 4500 NORG C	X
CHLORIDE EPA 300	X
Total Dissolved Solids SM 2540	X
Turn Around Time if different from standard	
Hold	

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
3634474-01		1	500	X			X					5-20-14	12:26
1-2 74-01		1	250	X			X						12:26
148174-02		1	500	X			X						13:01
-2 74-02		1	250	X			X						13:01
44174-03		1	500	X			X						13:33
1-2 74-03		1	250	X			X						13:33
58-74 - LAGOON		1	500	X			X						13:50
1-2 74 - LAGOON		1	250	X			X						13:50

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR	REMARKS:
<i>[Signature]</i>	DWH	5-20-14	14:30	<i>[Signature]</i>	DWH	5-20-14	14:30	12-1	1	0	ICE
<i>[Signature]</i>	DWH	5-20-14	14:30	<i>[Signature]</i>	DWH	5-20-14	14:30	INST	OBS	COR	
<i>[Signature]</i>	DWH	5-20-14	16:30	<i>[Signature]</i>	DWH	5-20-14	16:30	INST	OBS	COR	

# Trace Analysis, 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  
Midland, Texas 79702  
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  
Carrilton, Texas 75006  
Tel (972) 242-7750  
Fax (575) 392-7561  
Fax (575) 392-4508

email: lab@traceanalysis.com

Company Name:

DWH PETROLEUM + ENVIRONMENTAL

Address: (Street, City, Zip)

221 Tower Tract N, El Paso, TX, 79927

Contact Person:

VICTOR AYALA

Invoice to:

(If different from above) BUENA VISTA DAIRY #2, PO Box 346, MESQUITE, NM 88048

Project #:

441987

Project Location (including state):

16910 STEEN DRIVE, MESQUITE, NM

Sampler Signature:

July

Project Name:

BUENA VISTA DAIRY #2

E-mail: Vayajalab@hump.com

Phone #:

915-859-8150

Fax #:

ANALYSIS REQUEST  
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	VOLUME / AMOUNT	MATRIX	PRESERVATIVE METHOD	DATE	SAMPLING TIME
3634471	74-01	1	500	WATER	H <sub>2</sub> SO <sub>4</sub>	5-20-14	12:26
1-2	74-01	1	250	WATER	ICE		12:26
1-2	74-02	1	500	WATER	ICE		13:01
1-2	74-02	1	250	WATER	ICE		13:01
1-2	74-03	1	500	WATER	ICE		13:33
1-2	74-03	1	250	WATER	ICE		13:33
50-74	- LAGOON	1	500	WATER	ICE		13:50
1-2	74 - LAGOON	1	250	WATER	ICE		13:50

MTBE 8021 / 602 / 8260 / 624  
BTEX 8021 / 602 / 8260 / 624  
TPH 418.1 / TX1005 / TX1005 EX(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  
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  
NITRATES EPA 300  
TKN SM 4500 NORG C  
CHLORIDE EPA 300  
Total Dissolved Solids SM 2540 (MOD)

LAB USE ONLY	REMARKS:
INST 12-1 OBS 1 COR 0	1CE
INST 14:30 OBS 0 COR 0	
INST OBS COR	

Relinquished by: July Company: DWH Date: 5-20-14 Time: 14:30  
 Received by: Denny ch. Hays T.A. Company: 5-20-14 Date: 14:30 Time: 14:30  
 INST: 14:30 COR: 0

Relinquished by: DWH Company: T.A. Date: 5-20-14 Time: 14:30  
 Received by: [Signature] Company: [Signature] Date: [Signature] Time: [Signature]  
 INST: [Signature] COR: [Signature]

Carrier # CARREY IN

# TraceAnalysis, Inc.

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Company Name: **DWH PETROLEUM + ENVIRONMENTAL**  
 Address: (Street, City, Zip) **1221 Tower Trail N, El Paso, TX, 79927**  
 Contact Person: **VICTOR AYALA**  
 Invoice to: **VICTOR AYALA**  
 (If different from above) **BUENA VISTA DAIRY #2, PO Box 346, MESQUITE, NM 88048**  
 Project #: **441987**  
 Project Name: **BUENA VISTA DAIRY #2**  
 Project Location (including state): **16910 STEEN DRIVE, MESQUITE, NM**  
 Sampler Signature: *[Signature]*

Phone #: **915-851-8150**  
 Fax #: **915-851-8150**  
 E-mail: **vayala@dwhpump.com**

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
3634471	74-01	1	500	X				X					5-20-14	12:26
1-2	74-01	1	250	X				X						12:26
1481	74-02	1	500	X				X						13:01
-2	74-02	1	250	X				X						13:01
491	74-03	1	500	X				X						13:33
1-2	74-03	1	250	X				X						13:33
50-74	- LAGOON	1	500	X				X						13:50
1-2	74 - LAGOON	1	250	X				X						13:50

**ANALYSIS REQUEST**  
 (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 EXH(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	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	NITRATES EPA 300	TKN SM 4500 NORG C	CHLORIDE EPA 300	Total Dissolves Solids SM 2540 C MOD	Turn Around Time if different from standard
------------------------------	--------------------------------------	---------------------------	----------------	---	-------------------------------------	----------------	---------------------	-----------------	-----	-----------------------	-----------------------------	-----------------	-----------------------	--------------	------------------	---	------------------------	------------------	--------------------	------------------	--------------------------------------	---

Relinquished by: *[Signature]* Company: **DWH** Date: **5-20-14** Time: **14:30**  
 Received by: *[Signature]* Company: **Denny deHaven T.A.** Date: **5-20-14** Time: **14:30**  
 INST: **12-1** OBS: **1** COR: **0**  
 INST: **12-1** OBS: **1** COR: **0**

Relinquished by: *[Signature]* Company: **DWH** Date: **5-20-14** Time: **14:30**  
 Received by: *[Signature]* Company: **Denny deHaven T.A.** Date: **5-20-14** Time: **14:30**  
 INST: **12-1** OBS: **1** COR: **0**  
 INST: **12-1** OBS: **1** COR: **0**

Relinquished by: *[Signature]* Company: **DWH** Date: **5-20-14** Time: **14:30**  
 Received by: *[Signature]* Company: **Denny deHaven T.A.** Date: **5-20-14** Time: **14:30**  
 INST: **12-1** OBS: **1** COR: **0**  
 INST: **12-1** OBS: **1** COR: **0**

REMARKS: **ICE**

LAB USE ONLY

Intact  N  
 Headspace  N  
 Log-in/Review

Dry Weight Basis Required  
 TRRP Report Required  
 Check if Special Reporting Limits Are Needed

Carrier # **Caprey in LS 4857040**



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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: May 29, 2014

Work Order: 14052035



DP: 624  
 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
363451	624-01	water	2014-05-20	10:33	2014-05-20
363452	624-02	water	2014-05-20	09:25	2014-05-20
363453	624 Lagoon	water	2014-05-20	10:50	2014-05-20

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.

This report consists of a total of 20 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  
 Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2014-05-20 and assigned to work order 14052035. Samples for work order 14052035 were received intact at a temperature of 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	94854	2014-05-20 at 18:25	112194	2014-05-20 at 18:25
NO3 (IC)	E 300.0	94854	2014-05-20 at 18:25	112194	2014-05-20 at 18:25
TDS	SM 2540C	94905	2014-05-23 at 12:41	112250	2014-05-23 at 12:41
TKN	E 351.3	94900	2014-05-23 at 09:30	112247	2014-05-23 at 14:25
TKN	SM 4500-NH3 B,C	94898	2014-05-23 at 09:30	112245	2014-05-23 at 14:25

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 14052035 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.

This report contains 1 analytes that have been manually integrated.

Sample	Analyte	Flag	Comment
1. 112194 Method Blank-1	Nitrate-N	MI5	Baseline correction

# Analytical Report

**Sample: 363451 - 624-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112194 Date Analyzed: 2014-05-20 Analyzed By: JR  
 Prep Batch: 94854 Sample Preparation: 2014-05-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1050</b>	<b>1050</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363451 - 624-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112194 Date Analyzed: 2014-05-20 Analyzed By: JR  
 Prep Batch: 94854 Sample Preparation: 2014-05-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	MI5	1	<b>23.2</b>	<b>23.2</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363451 - 624-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112250 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94905 Sample Preparation: 2014-05-23 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3320</b>	<b>3320</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363451 - 624-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112245 Date Analyzed: 2014-05-23 Analyzed By: CF  
 Prep Batch: 94898 Sample Preparation: 2014-05-23 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	J	2	<b>4.90</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363452 - 624-02**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 112194      Date Analyzed: 2014-05-20      Analyzed By: JR  
 Prep Batch: 94854      Sample Preparation: 2014-05-20      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1010</b>	<b>1010</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363452 - 624-02**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 112194      Date Analyzed: 2014-05-20      Analyzed By: JR  
 Prep Batch: 94854      Sample Preparation: 2014-05-20      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	MI5	1	<b>12.7</b>	<b>12.7</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363452 - 624-02**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 112250      Date Analyzed: 2014-05-23      Analyzed By: MC  
 Prep Batch: 94905      Sample Preparation: 2014-05-23      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	<b>3350</b>	<b>3350</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363452 - 624-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112245 Date Analyzed: 2014-05-23 Analyzed By: CF  
 Prep Batch: 94898 Sample Preparation: 2014-05-23 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363453 - 624 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112194 Date Analyzed: 2014-05-20 Analyzed By: JR  
 Prep Batch: 94854 Sample Preparation: 2014-05-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>4870</b>	<b>4870</b>	<11.9	mg/L	500	11.9	2.5	0.0238

**Sample: 363453 - 624 Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112194 Date Analyzed: 2014-05-20 Analyzed By: JR  
 Prep Batch: 94854 Sample Preparation: 2014-05-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	M15,U	1	<0.187	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363453 - 624 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112250 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94905 Sample Preparation: 2014-05-23 Prepared By: MC

*continued ...*

sample 363453 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids	1	1	<b>24700</b>	<b>24700</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363453 - 624 Lagoon**

Laboratory: Lubbock  
Analysis: TKN  
QC Batch: 112247  
Prep Batch: 94900

Analytical Method: E 351.3  
Date Analyzed: 2014-05-23  
Sample Preparation: 2014-05-23

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			<b>196</b>	<b>196</b>	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112194  
Prep Batch: 94854Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

### Method Blank (1)

QC Batch: 112194  
Prep Batch: 94854Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N	MI5	1	0.198	mg/L	0.0374

### Method Blank (1)

QC Batch: 112245  
Prep Batch: 94898Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

### Method Blank (1)

QC Batch: 112247  
Prep Batch: 94900Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: CF  
Prepared By: CF

Report Date: May 29, 2014

Work Order: 14052035  
Dominguez Dairy #1

Page Number: 9 of 20  
13950 Stern Dr., Mesquite, NM

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N			<1.80	mg/L	1.8

---

**Method Blank (1)**

QC Batch: 112250  
Prep Batch: 94905

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

Analyzed By: MC  
Prepared By: MC

---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 363447

QC Batch: 112250  
 Prep Batch: 94905

Date Analyzed: 2014-05-23  
 QC Preparation: 2014-05-23

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3100	3080	mg/L	1	1	10



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112194  
Prep Batch: 94854

Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.5	mg/L	1	25.0	<0.0238	98	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
Chloride		1	24.5	mg/L	1	25.0	<0.0238	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: 112194  
Prep Batch: 94854

Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.82	mg/L	1	5.00	<0.0374	96	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
Nitrate-N		1	4.82	mg/L	1	5.00	<0.0374	96	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: 112245  
Prep Batch: 94898

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

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	43.4	mg/L	1	50.0	<1.80	87	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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: 112247  
Prep Batch: 94900

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N			44.1	mg/L	1	50.0	<1.80	88	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N			44.8	mg/L	1	50.0	<1.80	90	85 - 115	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: 112250  
Prep Batch: 94905

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	988	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	993	mg/L	1	1000	<2.50	99	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: 363448QC Batch: 112194  
Prep Batch: 94854Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2040	mg/L	55.6	1390	579	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2040	mg/L	55.6	1390	579	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: 363448QC Batch: 112194  
Prep Batch: 94854Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	296	mg/L	55.6	278	25.7	97	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	295	mg/L	55.6	278	25.7	97	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: 363652QC Batch: 112245  
Prep Batch: 94898Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	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							
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	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: 363683

QC Batch: 112247  
Prep Batch: 94900

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N			44.8	mg/L	1	50.0	<1.80	90	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							
Total Kjeldahl Nitrogen - N			44.8	mg/L	1	50.0	<1.80	90	80 - 120	0	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: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.2	101	90 - 110	2014-05-20

### Standard (CCV-2)

QC Batch: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-05-20

### Standard (CCV-3)

QC Batch: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.0	100	90 - 110	2014-05-20

### Standard (CCV-3)

QC Batch: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-05-20

**Standard (CCV-4)**

QC Batch: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.1	100	90 - 110	2014-05-20

**Standard (CCV-4)**

QC Batch: 112194

Date Analyzed: 2014-05-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.00	100	90 - 110	2014-05-20

**Standard (ICV-1)**

QC Batch: 112245

Date Analyzed: 2014-05-23

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	mg/L	5.00	4.34	87	85 - 115	2014-05-23

**Standard (CCV-1)**

QC Batch: 112245

Date Analyzed: 2014-05-23

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	mg/L	5.00	4.76	95	85 - 115	2014-05-23

**Standard (ICV-1)**

QC Batch: 112247

Date Analyzed: 2014-05-23

Analyzed By: CF

Report Date: May 29, 2014

Work Order: 14052035  
Dominguez Dairy #1

Page Number: 17 of 20  
13950 Stern Dr., Mesquite, NM

---

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N			mg/L	5.00	4.34	87	85 - 115	2014-05-23

---

**Standard (CCV-1)**

QC Batch: 112247

Date Analyzed: 2014-05-23

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			mg/L	5.00	4.48	90	85 - 115	2014-05-23

---

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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

## Result Comments

- 1 I ran a 10 ml of sample per Approx EC 35100 - Est. TDS (mg/L) >19999.

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

07/07/2014 09:00 AM  
 Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

# TraceAnalysis, Inc.

Company Name: TraceAnalysis, Inc. Phone #: 915-859-8150  
 D&H Petroleum & Environmental Services Cell #:                       
 Address: (Street, City, Zip) Fax #:                       
 1221 Tower Trail Ln, El Paso TX 79907 E-mail: vajala@dhpump.com

Contact Person: Victor Ayala  
 Invoice to (if different from above): Isaac Dominguez 575-649-7040  
 Dominguez Dairy #1, PO Box 21, Mesquite, NM 88048  
 Project #: 441969 Project Name: Dominguez Dairy #1  
 Dominguez Dairy #1  
 Sampler Signature: [Signature]

Project Location (including state): Dominguez Dairy #1, 13950 Stern Dr., 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	TIME
363451	624-01	1	500	X				X	X	X	X			5-20-14	10:33
	624-01	1	250	X				X	X	X	X			5-20-14	10:33
363452	624-02	1	500	X				X	X	X	X			5-20-14	9:25
	624-02	1	250	X				X	X	X	X			5-20-14	9:25
	624-04	1		X				X	X	X	X				
	624-04	1		X				X	X	X	X				
	624-05	1		X				X	X	X	X				
	624-05	1		X				X	X	X	X				
	624-06	1		X				X	X	X	X				
	624-06	1		X				X	X	X	X				
	624-07	1		X				X	X	X	X				
	624-07	1		X				X	X	X	X				
	624-08	1		X				X	X	X	X				
	624-08	1		X				X	X	X	X				
	624-08	1		X				X	X	X	X				
363453	624 Lagoon	1	500	X				X	X	X	X			5-20-14	10:50
	624 Lagoon	1	250	X				X	X	X	X			5-20-14	10:50

Relinquished By: [Signature] Date: 5-20-14 Time: 14:30  
 Received By: Danny A.H. Date: 5-20-14 Time: 14:30  
 Relinquished By: [Signature] Date: 5-20-14 Time: 14:30  
 Received at Laboratory By: [Signature] Date: 5-20-14 Time: 14:30

Page 1 of 1  
 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
 LAB Order ID # 14052035

ANALYSIS REQUEST	Hold
MTR 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

Remarks: ICE  
 Lab Use Only  
 Intact Y / N  
 Headspace Y / N  
 Temp 11.0 °C  
 Log-in Review [Signature]  
 Dry Weight Basis Required  
 TRRP Report Required

Company Name: **Trace Analysis, Inc.**  
 Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

Company Name: **D&H Petroleum & Environmental Services**  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln, El Paso TX 79907  
 Contact Person: **Victor Ayala**  
 Phone #: 915-859-8150  
 Cell #:   
 Fax #:   
 E-mail: **vajala@dhpump.com**

Project #: **441969**  
 Project Name: **Dominguez Dairy #1**  
 Project Location (including state): **Dominguez Dairy #1, 13950 Stern Dr., Mesquite, NM**  
 Invoice to (if different from above): **Isaac Dominguez 575-649-7040**  
 Dominguez Dairy #1, PO Box 21, Mesquite, NM 88048

Sampler Signature: *[Signature]*

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
363451	624-01	1	500	X				X				X		5-20-14	10:33
	624-01	1	250	X				X				X		5-20-14	10:33
363452	624-02	1	500	X				X				X		5-20-14	9:25
	624-02	1	250	X				X				X		5-20-14	9:25
	624-01	1		X				X				X			
	624-01	1		X				X				X			
	624-05	1		X				X				X			
	624-05	1		X				X				X			
	624-06	1		X				X				X			
	624-06	1		X				X				X			
	624-07	1		X				X				X			
	624-07	1		X				X				X			
	624-08	1		X				X				X			
	624-08	1		X				X				X			
363453	624 Lagoon	1	500	X				X				X		5-20-14	10:50
	624 Lagoon	1	250	X				X				X		5-20-14	10:50

Relinquished By: *[Signature]* Date: 5-20-14 Time: 14:30  
 Received By: *[Signature]* Date: 5-20-14 Time: 14:30  
 Laboratory By: *[Signature]* Date: 5-20-14 Time: 14:30  
 Headspace Y / N  
 Temp 11.0°C  
 Log-in Review *[Signature]*

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
 LAB Order ID # **14052035**

ANALYSIS REQUEST	Result
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	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Remarks: **ICE**  
 Turn Around Time  
 Hold

Dry Weight Basis Required  
 TRRP Report Required

# TraceAnalysis, Inc.

Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name: D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln, El Paso TX 79907  
Contact Person: Victor Ayala  
E-mail: vajala@dhpump.com

Phone #: 915-859-8150  
Cell #: 915-859-8150  
Fax #: 915-859-8150  
E-mail: vajala@dhpump.com

Project #: 441969  
Project Name: Dominguez Dairy #1  
Project Location (including state): Dominguez Dairy #1, 13950 Stern Dr., Mesquite, NM  
Project #: 441969  
Project Name: Dominguez Dairy #1  
Project Location (including state): Dominguez Dairy #1, PO Box 21, Mesquite, NM 88048  
Project #: 441969  
Project Name: Dominguez Dairy #1  
Project Location (including state): Dominguez Dairy #1, 13950 Stern Dr., Mesquite, NM

Sampler Signature: *[Signature]*

LAB #	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	TIME
363451	624-01	1	500	X			X			X			5-20-14	10:33
	624-01	1	250	X			X			X			5-20-14	10:33
363452	624-02	1	500	X			X			X			5-20-14	9:25
	624-02	1	250	X			X			X			5-20-14	9:25
	624-04	1		X			X			X				
	624-04	1		X			X			X				
	624-05	1		X			X			X				
	624-05	1		X			X			X				
	624-06	1		X			X			X				
	624-06	1		X			X			X				
	624-07	1		X			X			X				
	624-07	1		X			X			X				
	624-08	1		X			X			X				
	624-08	1		X			X			X				
363453	624 Lagoon	1	500	X			X			X			5-20-14	10:50
	624 Lagoon	1	250	X			X			X			5-20-14	10:50

Relinquished By: *[Signature]* Date: 5-20-14 Time: 14:30  
 Received By: *[Signature]* Date: 5-20-14 Time: 14:30  
 Relinquished By: *[Signature]* Date: 5-20-14 Time: 16:30  
 Received By: *[Signature]* Date: 5-20-14 Time: 16:30

Lab Use Only  
 Intact  Y  N  
 Headspace  Y  N  
 Temp  11.0°C  11.0°C  
 Log-in Review  Y  N

Remarks: *ICE*  
 18596402  
 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: May 30, 2014

Work Order: 14052148



DP: 74  
 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
363656	74-4	water	2014-05-21	09:01	2014-05-21
363657	74-5	water	2014-05-21	10:41	2014-05-21

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.

This report consists of a total of 16 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  
 Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2014-05-21 and assigned to work order 14052148. Samples for work order 14052148 were received intact at a temperature of 0.1 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	94855	2014-05-21 at 17:46	112195	2014-05-21 at 17:46
NO3 (IC)	E 300.0	94855	2014-05-21 at 17:46	112195	2014-05-21 at 17:46
TDS	SM 2540C	94906	2014-05-23 at 14:50	112251	2014-05-23 at 14:50
TKN	SM 4500-NH3 B,C	94930	2014-05-27 at 09:40	112281	2014-05-27 at 13:15

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 14052148 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: 363656 - 74-4**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112195 Date Analyzed: 2014-05-21 Analyzed By: JR  
 Prep Batch: 94855 Sample Preparation: 2014-05-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>537</b>	<b>537</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363656 - 74-4**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112195 Date Analyzed: 2014-05-21 Analyzed By: JR  
 Prep Batch: 94855 Sample Preparation: 2014-05-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>20.1</b>	<b>20.1</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363656 - 74-4**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112251 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94906 Sample Preparation: 2014-05-23 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	<b>1880</b>	<b>1880</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363656 - 74-4**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112281 Date Analyzed: 2014-05-27 Analyzed By: CF  
 Prep Batch: 94930 Sample Preparation: 2014-05-27 Prepared By: CF

Report Date: May 30, 2014

Work Order: 14052148  
Buena Vista Dairy #2

Page Number: 5 of 16  
16910 Stern Drive, Mesquite, NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363657 - 74-5**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 112195      Date Analyzed: 2014-05-21      Analyzed By: JR  
 Prep Batch: 94855      Sample Preparation: 2014-05-21      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>452</b>	<b>452</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363657 - 74-5**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 112195      Date Analyzed: 2014-05-21      Analyzed By: JR  
 Prep Batch: 94855      Sample Preparation: 2014-05-21      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>19.8</b>	<b>19.8</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363657 - 74-5**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 112251      Date Analyzed: 2014-05-23      Analyzed By: MC  
 Prep Batch: 94906      Sample Preparation: 2014-05-23      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	<b>1860</b>	<b>1860</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363657 - 74-5**

Report Date: May 30, 2014

Work Order: 14052148  
Buena Vista Dairy #2

Page Number: 6 of 16  
16910 Stern Drive, Mesquite, NM

---

Laboratory: Lubbock  
Analysis: TKN                      Analytical Method: SM 4500-NH3 B,C                      Prep Method: N/A  
QC Batch: 112281                      Date Analyzed: 2014-05-27                      Analyzed By: CF  
Prep Batch: 94930                      Sample Preparation: 2014-05-27                      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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112195  
Prep Batch: 94855Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112195  
Prep Batch: 94855Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.205	mg/L	0.0374

### Method Blank (1)

QC Batch: 112251  
Prep Batch: 94906Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112281  
Prep Batch: 94930Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: CF  
Prepared By: CF

Report Date: May 30, 2014

Work Order: 14052148  
Buena Vista Dairy #2

Page Number: 8 of 16  
16910 Stern Drive, Mesquite, NM

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 363800

QC Batch: 112251  
 Prep Batch: 94906

Date Analyzed: 2014-05-23  
 QC Preparation: 2014-05-23

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1150	1120	mg/L	1	3	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112195  
Prep Batch: 94855Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	24.9	mg/L	1	25.0	<0.0238	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	24.8	mg/L	1	25.0	<0.0238	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: 112195  
Prep Batch: 94855Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.89	mg/L	1	5.00	<0.0374	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.88	mg/L	1	5.00	<0.0374	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: 112251  
Prep Batch: 94906Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	1000	mg/L	1	1000	<2.50	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	1000	mg/L	1	1000	<2.50	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: 112281  
Prep Batch: 94930

Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27

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	47.6	mg/L	1	50.0	<1.80	95	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							
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	85 - 115	4	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: 363802

QC Batch: 112281  
 Prep Batch: 94930

Date Analyzed: 2014-05-27  
 QC Preparation: 2014-05-27

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	43.4	mg/L	1	50.0	<1.80	87	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
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	80 - 120	6	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: 112195

Date Analyzed: 2014-05-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.1	100	90 - 110	2014-05-21

### Standard (CCV-2)

QC Batch: 112195

Date Analyzed: 2014-05-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.99	100	90 - 110	2014-05-21

### Standard (CCV-3)

QC Batch: 112195

Date Analyzed: 2014-05-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.1	100	90 - 110	2014-05-21

### Standard (CCV-3)

QC Batch: 112195

Date Analyzed: 2014-05-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.00	100	90 - 110	2014-05-21

**Standard (ICV-1)**

QC Batch: 112281

Date Analyzed: 2014-05-27

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	mg/L	5.00	4.76	95	85 - 115	2014-05-27

**Standard (CCV-1)**

QC Batch: 112281

Date Analyzed: 2014-05-27

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	mg/L	5.00	5.04	101	85 - 115	2014-05-27

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

100 McArthur Court, Ste. 110  
Lubbock, TX 79424  
Tel (806) 794-1286  
Fax (806) 794-1288

# Trace Analysis, Inc.

Paso, TX 79632  
Tel (915) 585-3443  
Fax (915) 585-4944

Page 1 of 1  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:

Phone #: 915-859-8150

LAB Order ID # 4052148

D&H Petroleum & Environmental Services

Cell #:

Address: (Street, City, Zip)

Fax #: vayala@dhpump.com  
E-mail:

1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person:

Victor Ayala

invoice to (if different from above):

Buena Vista Dairy #2, P.O. Box 346, Mesquite, NM 88048

Fernie 575-233-4646

Project #: 441987

Project Name:

Buena Vista Dairy #2

Project Location (including state):

Buena Vista Dairy #2, 16910 Stern Drive, Mesquite, NM

Sampler Signature: July

LAB #	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
74-1		1		X				X						
74-1		1		X				X						
74-2		1		X				X						
74-3		1		X				X						
74-4		1		X				X						
74-5		1		X				X						
74-6		1		X				X						
74-7		1		X				X						
74-8		1		X				X						
74-9		1		X				X						
74-10		1		X				X						
74-11		1		X				X						
74-12		1		X				X						
74-13		1		X				X						
74-14		1		X				X						
74-15		1		X				X						
74-16		1		X				X						
74-17		1		X				X						
74-18		1		X				X						
74-19		1		X				X						
74-20		1		X				X						
74-21		1		X				X						
74-22		1		X				X						
74-23		1		X				X						
74-24		1		X				X						
74-25		1		X				X						
74-26		1		X				X						
74-27		1		X				X						
74-28		1		X				X						
74-29		1		X				X						
74-30		1		X				X						
74-31		1		X				X						
74-32		1		X				X						
74-33		1		X				X						
74-34		1		X				X						
74-35		1		X				X						
74-36		1		X				X						
74-37		1		X				X						
74-38		1		X				X						
74-39		1		X				X						
74-40		1		X				X						
74-41		1		X				X						
74-42		1		X				X						
74-43		1		X				X						
74-44		1		X				X						
74-45		1		X				X						
74-46		1		X				X						
74-47		1		X				X						
74-48		1		X				X						
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74-52		1		X				X						
74-53		1		X				X						
74-54		1		X				X						
74-55		1		X				X						
74-56		1		X				X						
74-57		1		X				X						
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74-63		1		X				X						
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74-66		1		X				X						
74-67		1		X				X						
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74-91		1		X				X						
74-92		1		X				X						
74-93		1		X				X						
74-94		1		X				X						
74-95		1		X				X						
74-96		1		X				X						
74-97		1		X				X						
74-98		1		X				X						
74-99		1		X				X						
74-100		1		X				X						

Remarks: ON FILE

TKN analysis in subbook (4)

Lab Use Only: Y / N / N

Headspace: Y / N / N

Temp: 38.0 / 11.0

Log-in Review: 9

Relinquished By: July Date: 5-21-14 Time: 14:15

Received By: MKE Date: 5-21-14 Time: 14:25

Relinquished By: Victor Date: 5/21/14 Time: 16:30

Received at Laboratory By: Victor Date: 5-21-14 Time: 14:25

Dry Weight Basis Required:

TRRP Report Required:

Carly

# TraceAnalysis, Inc.

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](mailto:vayala@dhpump.com)

Contact Person: Victor Ayala  
Invoice to (if different from above):  
Buena Vista Dairy #2, P.O. Box 346, Mesquite, NM 88048 Ferie 575-233-4646

Project #: 441967  
Project Name: Buena Vista Dairy #2  
Sampler Signature: *July*

Project Location (including state):  
Buena Vista Dairy #2, 16910 Stern Drive, Mesquite, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX	PRESERVATIVE METHOD	DATE	SAMPLING TIME
74-1		1		WATER	HCl		
74-1		1		AIR	H <sub>2</sub> SO <sub>4</sub>		
74-2		1		SLUDGE	ICE		
74-3		1		SOIL	NONE		
74-4		1	500	WATER	HCl	5-21-14	9:01
74-5		1	250	WATER	H <sub>2</sub> SO <sub>4</sub>		9:01
74-5		1	500	WATER	HNO <sub>3</sub>		10:41
74-5		1	250	WATER	ICE		10:41
74-Lagoon		1		WATER	NONE		
74-Lagoon		1		WATER	NONE		

LAB USE ONLY	Field Code	# Containers	Volume/Amount	MATRIX	PRESERVATIVE METHOD	DATE	SAMPLING TIME	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
	74-1	1		WATER	HCl															
	74-1	1		AIR	H <sub>2</sub> SO <sub>4</sub>															
	74-2	1		SLUDGE	ICE															
	74-3	1		SOIL	NONE															
	74-4	1	500	WATER	HCl	5-21-14	9:01													
	74-5	1	250	WATER	H <sub>2</sub> SO <sub>4</sub>		9:01													
	74-5	1	500	WATER	HNO <sub>3</sub>		10:41													
	74-5	1	250	WATER	ICE		10:41													
	74-Lagoon	1		WATER	NONE															
	74-Lagoon	1		WATER	NONE															

Relinquished By: *July* Date: 5-21-14 Time: 14:06  
 Received By: *MCA* Date: 5-21-14 Time: 14:25  
 Relinquished By: *MCA* Date: 5-22-14 Time: 9:00  
 Received By: *HTaylor* Date: 5-22-14 Time: 9:00  
 Relinquished By: *MCA* Date: 5-21-14 Time: 16:30  
 Received By: *HTaylor* Date: 5-22-14 Time: 9:00  
 Relinquished By: *MCA* Date: 5-21-14 Time: 16:30  
 Received By: *HTaylor* Date: 5-22-14 Time: 9:00

Remarks: ON ICE  
 TKN analysis in subpack (4)  
 Dry Weight Basis Required  
 TRRP Report Required  
*CARLY LN 48590400*



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

Isaac Dominguez  
 Dominguez Dairy #2  
 13600 Stern Drive  
 P. O. Box 21  
 Mesquite, NM, 88048

Report Date: June 3, 2014

Work Order: 14052146



Project Location: 13600 Stern Drive, Mesquite, NM  
 Project Name: Dominguez Dairy #2  
 Project #: 42

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
363652	42-2	water	2014-05-21	12:34	2014-05-21
363653	42-3	water	2014-05-21	11:31	2014-05-21
363654	42-6	water	2014-05-21	13:39	2014-05-21
363655	42-8	water	2014-05-21	13:07	2014-05-21

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.

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.*



*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Dominguez Dairy #2 were received by TraceAnalysis, Inc. on 2014-05-21 and assigned to work order 14052146. Samples for work order 14052146 were received intact at a temperature of 0.1 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	94855	2014-05-21 at 17:46	112195	2014-05-21 at 17:46
NO3 (IC)	E 300.0	94855	2014-05-21 at 17:46	112195	2014-05-21 at 17:46
TDS	SM 2540C	94905	2014-05-23 at 12:41	112250	2014-05-23 at 12:41
TDS	SM 2540C	94906	2014-05-23 at 14:50	112251	2014-05-23 at 14:50
TKN	SM 4500-NH3 B,C	94898	2014-05-23 at 09:30	112245	2014-05-23 at 14:25
TKN	SM 4500-NH3 B,C	94930	2014-05-27 at 09:40	112281	2014-05-27 at 13:15

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 14052146 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: 363652 - 42-2**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112195 Date Analyzed: 2014-05-21 Analyzed By: JR  
 Prep Batch: 94855 Sample Preparation: 2014-05-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>498</b>	<b>498</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363652 - 42-2**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112195 Date Analyzed: 2014-05-21 Analyzed By: JR  
 Prep Batch: 94855 Sample Preparation: 2014-05-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>10.2</b>	<b>10.2</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363652 - 42-2**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112250 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94905 Sample Preparation: 2014-05-23 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	<b>2460</b>	<b>2460</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363652 - 42-2**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112245 Date Analyzed: 2014-05-23 Analyzed By: CF  
 Prep Batch: 94898 Sample Preparation: 2014-05-23 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	J	2	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363653 - 42-3**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112195 Date Analyzed: 2014-05-21 Analyzed By: JR  
 Prep Batch: 94855 Sample Preparation: 2014-05-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1100</b>	<b>1100</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363653 - 42-3**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112195 Date Analyzed: 2014-05-21 Analyzed By: JR  
 Prep Batch: 94855 Sample Preparation: 2014-05-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>62.6</b>	<b>62.6</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 363653 - 42-3**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112250 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94905 Sample Preparation: 2014-05-23 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	<b>3720</b>	<b>3720</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363653 - 42-3**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112281 Date Analyzed: 2014-05-27 Analyzed By: CF  
 Prep Batch: 94930 Sample Preparation: 2014-05-27 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363654 - 42-6**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112195 Date Analyzed: 2014-05-21 Analyzed By: JR  
 Prep Batch: 94855 Sample Preparation: 2014-05-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Chloride		1	<b>395</b>	<b>395</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 363654 - 42-6**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112195 Date Analyzed: 2014-05-21 Analyzed By: JR  
 Prep Batch: 94855 Sample Preparation: 2014-05-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Nitrate-N		1	<b>87.9</b>	<b>87.9</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 363654 - 42-6**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112251 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94906 Sample Preparation: 2014-05-23 Prepared By: MC

*continued . . .*

*sample 363654 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2440</b>	<b>2440</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363654 - 42-6**

Laboratory: Lubbock  
 Analysis: TKN  
 QC Batch: 112281  
 Prep Batch: 94930

Analytical Method: SM 4500-NH3 B,C  
 Date Analyzed: 2014-05-27  
 Sample Preparation: 2014-05-27

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	<b>2.80</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363655 - 42-8**

Laboratory: El Paso  
 Analysis: Chloride (IC)  
 QC Batch: 112195  
 Prep Batch: 94855

Analytical Method: E 300.0  
 Date Analyzed: 2014-05-21  
 Sample Preparation: 2014-05-21

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	<b>149</b>	<b>149</b>	<0.119	mg/L	5	0.119	2.5	0.0238

**Sample: 363655 - 42-8**

Laboratory: El Paso  
 Analysis: NO3 (IC)  
 QC Batch: 112195  
 Prep Batch: 94855

Analytical Method: E 300.0  
 Date Analyzed: 2014-05-21  
 Sample Preparation: 2014-05-21

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	<b>33.1</b>	<b>33.1</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363655 - 42-8**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112251 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94906 Sample Preparation: 2014-05-23 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	<b>1470</b>	<b>1470</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363655 - 42-8**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112281 Date Analyzed: 2014-05-27 Analyzed By: CF  
 Prep Batch: 94930 Sample Preparation: 2014-05-27 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112195  
Prep Batch: 94855Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112195  
Prep Batch: 94855Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.205	mg/L	0.0374

### Method Blank (1)

QC Batch: 112245  
Prep Batch: 94898Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

### Method Blank (1)

QC Batch: 112250  
Prep Batch: 94905Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: MC  
Prepared By: MC

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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

**Method Blank (1)**

QC Batch: 112251  
Prep Batch: 94906

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

Analyzed By: MC  
Prepared By: MC

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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

**Method Blank (1)**

QC Batch: 112281  
Prep Batch: 94930

Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27

Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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## Duplicates

**Duplicate (1)** Duplicated Sample: 363447QC Batch: 112250  
Prep Batch: 94905Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3100	3080	mg/L	1	1	10

**Duplicate (1)** Duplicated Sample: 363800QC Batch: 112251  
Prep Batch: 94906Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1150	1120	mg/L	1	3	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112195  
Prep Batch: 94855Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	24.9	mg/L	1	25.0	<0.0238	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	24.8	mg/L	1	25.0	<0.0238	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: 112195  
Prep Batch: 94855Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.89	mg/L	1	5.00	<0.0374	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.88	mg/L	1	5.00	<0.0374	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: 112245  
Prep Batch: 94898Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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: 112250  
Prep Batch: 94905

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	988	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	993	mg/L	1	1000	<2.50	99	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: 112251  
Prep Batch: 94906

Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	1000	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	1000	mg/L	1	1000	<2.50	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: 112281  
Prep Batch: 94930

Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27

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	47.6	mg/L	1	50.0	<1.80	95	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 Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	85 - 115	4	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: 363652QC Batch: 112245  
Prep Batch: 94898Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	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
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	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: 363802QC Batch: 112281  
Prep Batch: 94930Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	80 - 120	6	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: 112195

Date Analyzed: 2014-05-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.0	100	90 - 110	2014-05-21

### Standard (CCV-1)

QC Batch: 112195

Date Analyzed: 2014-05-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-05-21

### Standard (CCV-2)

QC Batch: 112195

Date Analyzed: 2014-05-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.1	100	90 - 110	2014-05-21

### Standard (CCV-2)

QC Batch: 112195

Date Analyzed: 2014-05-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.99	100	90 - 110	2014-05-21

**Standard (CCV-3)**

QC Batch: 112195

Date Analyzed: 2014-05-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.1	100	90 - 110	2014-05-21

**Standard (CCV-3)**

QC Batch: 112195

Date Analyzed: 2014-05-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.00	100	90 - 110	2014-05-21

**Standard (ICV-1)**

QC Batch: 112245

Date Analyzed: 2014-05-23

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	mg/L	5.00	4.34	87	85 - 115	2014-05-23

**Standard (CCV-1)**

QC Batch: 112245

Date Analyzed: 2014-05-23

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	mg/L	5.00	4.76	95	85 - 115	2014-05-23

**Standard (ICV-1)**

QC Batch: 112281

Date Analyzed: 2014-05-27

Analyzed By: CF

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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	mg/L	5.00	4.76	95	85 - 115	2014-05-27

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**Standard (CCV-1)**

QC Batch: 112281

Date Analyzed: 2014-05-27

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	mg/L	5.00	5.04	101	85 - 115	2014-05-27

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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	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

LAB Order ID # 14052146

Paso, TX 79932  
Tel (915) 585-9443  
Fax (915) 585-4944

**TraceAnalysis, Inc.**

Phone #: 915-859-8150  
Cell #:  
Fax #:  
E-mail: vayala@dhpump.com

Company Name:  
D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person: Victor Ayala  
Invoice to (if different from above):  
Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048  
Project #: 441971  
Project Name: Dominguez Dairy #2  
Sampler Signature: [Signature]

Project Location (including state):  
Dominguez Dairy #2, 13600 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
303058-1	42-2	1	500	X				X					5-2-14	12:34
J-2	42-2	1	250	X				X					5-2-14	12:34
653-1	42-3	1	500	X				X					11:31	11:31
J-2	42-3	1	250	X				X					11:31	11:31
654-1	42-6	1	500	X				X					13:39	13:39
J-2	42-6	1	250	X				X					13:39	13:39
42-7		1		X				X						
42-7		1		X				X						
655-1	42-8	1	500	X				X					13:07	13:07
J-2	42-8	1	250	X				X					13:07	13:07
42-9		1		X				X						
42-9		1		X				X						
42-10		1		X				X						
42-10		1		X				X						
42-11		1		X				X						
42-11		1		X				X						
42-14		1		X				X						
42-14		1		X				X						

Relinquished By: [Signature] Date: 5/2/14 Time: 14:25  
 Relinquished By: [Signature] Date: 5/2/14 Time: 16:30

Received By: [Signature] Date: 5/2/14 Time: 14:25  
 Received at Laboratory By: [Signature] Date: 5/2/14 Time: 14:25

**ANALYSIS REQUEST**

TX 1005 Extended (C35)	
TPH 418.1 / TX1005	
BTEX 8021B/602	
MTBE 8021B/602	
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
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X

Lab Use Only  
 Intact Y/N  
 Headspace Y/N  
 Temp 50.2  
 Log-in Review [Signature]  
 5-2-14

Remarks: OK JEA  
TKU analysis in duplicate  
 Dry Weight Basis Required  
 TRRP Report Required  
CAIM JEA

# TraceAnalysis, Inc.

Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Phone #: 915-859-8150  
Cell #:  
Fax #:  
E-mail: [vayala@dhppump.com](mailto:vayala@dhppump.com)

Company Name:  
D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person:  
Victor Ayala

Invoice to (if different from above):  
Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048  
Project Name:  
Dominguez Dairy #2  
Project #: **441971**  
Sampler Signature: *Jub*

Project Location (including state):  
Dominguez Dairy #2, 13600 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
363652-1	42-2	1	500	X				X					5-21-14	12:34
1-2	42-2	1	250	X				X					5-21-14	12:34
653-1	42-3	1	500	X				X					11:31	11:31
1-2	42-3	1	250	X				X					13:39	13:39
654-1	42-6	1	500	X				X					13:39	13:39
1-2	42-6	1	250	X				X					13:07	13:07
42-7	42-7	1		X				X						
655-1	42-8	1	500	X				X						
1-2	42-8	1	250	X				X						
42-9	42-9	1		X				X						
42-9	42-9	1		X				X						
42-10	42-10	1		X				X						
42-10	42-10	1		X				X						
42-11	42-11	1		X				X						
42-11	42-11	1		X				X						
42-11	42-11	1		X				X						
42-11	42-11	1		X				X						

Relinquished By: *Jub* Date: 5-21-14 Time: 14:25  
 Relinquished By: *MLE* Date: 5-22-14 Time: 9:00  
 Received By: *MLE* Date: 5-21-14 Time: 14:25  
 Received at Laboratory By: *Hayler* Date: 5-22-14 Time: 9:00  
 Date: 5-21-14 Time: 14:25  
 Date: 5-22-14 Time: 9:00  
 Date: 5-21-14 Time: 14:25  
 Date: 5-22-14 Time: 9:00

Lab Use Only  
 Intact Y/N  
 Headspace Y/N  
 Temp *JR2*  
 Log-in Review *JR*  
 5-21-14

ANALYSIS REQUEST	Lab Use Only	Remarks:
MTBE 8021B/602		CR JA TKW analysis is finished Dry Weight Basis Required TRRP Report Required CS 48590400
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	
Total Kjeldahl Nitrogen SM 4500 NORG C	X	
Chloride EPA 300.0	X	
Total Dissolved Solids SM 2540 C MOD	X	
Turn Around Time		
Hold		



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: June 4, 2014

Work Order: 14052235



DP: 167  
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
363806	167-04	water	2014-05-22	13:40	2014-05-22
363807	167-06	water	2014-05-22	13:14	2014-05-22

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.

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.*

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager



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## Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2014-05-22 and assigned to work order 14052235. Samples for work order 14052235 were received intact at a temperature of 4.0 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	94932	2014-05-22 at 18:42	112284	2014-05-22 at 18:42
NO3 (IC)	E 300.0	94932	2014-05-22 at 18:42	112284	2014-05-22 at 18:42
TDS	SM 2540C	94957	2014-05-27 at 13:56	112315	2014-05-27 at 13:56
TKN	SM 4500-NH3 B,C	95140	2014-06-04 at 10:00	112528	2014-06-04 at 15:15

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 14052235 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: 363806 - 167-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1010</b>	<b>1010</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363806 - 167-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>26.5</b>	<b>26.5</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363806 - 167-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112315 Date Analyzed: 2014-05-27 Analyzed By: MC  
 Prep Batch: 94957 Sample Preparation: 2014-05-27 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	<b>3600</b>	<b>3600</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363806 - 167-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112528 Date Analyzed: 2014-06-04 Analyzed By: CF  
 Prep Batch: 95140 Sample Preparation: 2014-06-04 Prepared By: CF

Report Date: June 4, 2014

Work Order: 14052235  
River Valley Dairy, LLC

Page Number: 5 of 17  
1400 La Chuga Rd., Mesquite, NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	<b>18.2</b>	<b>18.2</b>	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363807 - 167-06**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112284                              Date Analyzed: 2014-05-22                      Analyzed By: JR  
 Prep Batch: 94932                              Sample Preparation: 2014-05-22                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>726</b>	<b>726</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363807 - 167-06**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 112284                              Date Analyzed: 2014-05-22                              Analyzed By: JR  
 Prep Batch: 94932                              Sample Preparation: 2014-05-22                              Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>22.8</b>	<b>22.8</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363807 - 167-06**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 112315                              Date Analyzed: 2014-05-27                              Analyzed By: MC  
 Prep Batch: 94957                              Sample Preparation: 2014-05-27                              Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2660</b>	<b>2660</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363807 - 167-06**

Report Date: June 4, 2014

Work Order: 14052235  
River Valley Dairy, LLC

Page Number: 6 of 17  
1400 La Chuga Rd., Mesquite, NM

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112528

Prep Batch: 95140

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-06-04

Sample Preparation: 2014-06-04

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	J	2	<b>4.20</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112315  
Prep Batch: 94957Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112528  
Prep Batch: 95140Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: CF  
Prepared By: CF

Report Date: June 4, 2014

Work Order: 14052235  
River Valley Dairy, LLC

Page Number: 8 of 17  
1400 La Chuga Rd., Mesquite, NM

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 363801

QC Batch: 112315  
 Prep Batch: 94957

Date Analyzed: 2014-05-27  
 QC Preparation: 2014-05-27

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1080	1160	mg/L	1	7	10



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112284  
Prep Batch: 94932

Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	25.9	mg/L	1	25.0	<0.0238	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	25.8	mg/L	1	25.0	<0.0238	103	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: 112284  
Prep Batch: 94932

Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	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: 112315  
Prep Batch: 94957

Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	1000	mg/L	1	1000	<2.50	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	998	mg/L	1	1000	<2.50	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: 112528  
Prep Batch: 95140

Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04

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	44.1	mg/L	1	50.0	<1.80	88	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							
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.80	85	85 - 115	3	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: 363800QC Batch: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1780	mg/L	55.6	1390	312	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1780	mg/L	55.6	1390	312	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: 363800QC Batch: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	284	mg/L	55.6	278	<2.08	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	283	mg/L	55.6	278	<2.08	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: 363936QC Batch: 112528  
Prep Batch: 95140Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: June 4, 2014

Work Order: 14052235  
River Valley Dairy, LLC

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1400 La Chuga Rd., Mesquite, NM

---

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	80 - 120	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: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-05-22

### Standard (CCV-2)

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-05-22

### Standard (CCV-3)

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-05-22

### Standard (CCV-3)

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-05-22

**Standard (CCV-4)**

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.0	100	90 - 110	2014-05-22

**Standard (CCV-4)**

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-05-22

**Standard (ICV-1)**

QC Batch: 112528

Date Analyzed: 2014-06-04

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	mg/L	5.00	4.34	87	85 - 115	2014-06-04

**Standard (CCV-1)**

QC Batch: 112528

Date Analyzed: 2014-06-04

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	mg/L	5.00	5.04	101	85 - 115	2014-06-04

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

**Company Name:** D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
 Contact Person: Victor Ayala  
 Phone #: 915-859-8150  
 Cell #: 915-859-8150  
 Fax #: 915-859-8150  
 E-mail: vajala@dhpump.com

**Project #:** 88021  
**Project Name:** River Valley Dairy, LLC  
**Project Location (including state):** River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM  
**Sampler Signature:** *July*

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		
167-01		1		X				X									
167-04		1		X				X									
167-05		1		X				X									
167-06		1		X				X									
167-07		1		X				X									
167-08		1		X				X									
167-09		1		X				X									
167-10		1		X				X									
167-11		1		X				X									
167-12		1		X				X									
167-13		1		X				X									
167-14		1	500	X				X							5-22-14	13:40	
167-15		1	250	X				X								13:40	
167-16		1		X				X									
167-17		1		X				X									
167-18		1		X				X									
167-19		1	500	X				X								13:14	
167-20		1	250	X				X								13:14	
167-21		1		X				X									
167-22		1		X				X									

**Relinquished By:** *July*      **Date:** 5-22-14      **Time:** 14:10  
**Received By:** *D. H. T. A.*      **Date:** 5-22-14      **Time:** 14:20

**Relinquished By:** *D. H. T. A.*      **Date:** 5-22-14      **Time:** 16:30  
**Received at Laboratory By:**      **Date:**      **Time:**

**Lab Use Only**  
 Intac  Y  N  
 Headspace Y  N  N  
 Temp *12-2 41.40*  
 Log-In Review *SL*

**Remarks:** *ICE*

Dry Weight Basis Required  
 TRRP Report Required

*SL*

**ANALYSIS REQUEST**

MTRE 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	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Turn Around Time

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

LAB Order ID # 14058835



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

Isaac Dominguez  
Dominguez Dairy #2  
13600 Stern Drive  
P. O. Box 21  
Mesquite, NM, 88048

Report Date: June 4, 2014

Work Order: 14052233



Project Location: 13600 Stern Drive, Mesquite, NM  
Project Name: Dominguez Dairy #2  
Project #: 42

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
363798	42-9	water	2014-05-22	10:58	2014-05-22
363799	42-10	water	2014-05-22	12:21	2014-05-22
363800	42-11	water	2014-05-22	11:27	2014-05-22
363801	42-12	water	2014-05-22	11:55	2014-05-22
363802	42-13	water	2014-05-22	10:23	2014-05-22
363803	42-Lagoon	water	2014-05-22	09:59	2014-05-22

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.

This report consists of a total of 24 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.*

*Michael Abel*

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Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Dominguez Dairy #2 were received by TraceAnalysis, Inc. on 2014-05-22 and assigned to work order 14052233. Samples for work order 14052233 were received intact at a temperature of 4.0 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	94932	2014-05-22 at 18:42	112284	2014-05-22 at 18:42
NO3 (IC)	E 300.0	94932	2014-05-22 at 18:42	112284	2014-05-22 at 18:42
TDS	SM 2540C	94906	2014-05-23 at 14:50	112251	2014-05-23 at 14:50
TDS	SM 2540C	94957	2014-05-27 at 13:56	112315	2014-05-27 at 13:56
TKN	SM 4500-NH3 B,C	94930	2014-05-27 at 09:40	112281	2014-05-27 at 13:15
TKN	SM 4500-NH3 B,C	95140	2014-06-04 at 10:00	112528	2014-06-04 at 15:15

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 14052233 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: 363798 - 42-9**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>699</b>	<b>699</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363798 - 42-9**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 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	<b>59.3</b>	<b>59.3</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 363798 - 42-9**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112251 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94906 Sample Preparation: 2014-05-23 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	<b>3060</b>	<b>3060</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363798 - 42-9**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112281 Date Analyzed: 2014-05-27 Analyzed By: CF  
 Prep Batch: 94930 Sample Preparation: 2014-05-27 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	U	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363799 - 42-10**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112284

Prep Batch: 94932

Analytical Method: E 300.0

Date Analyzed: 2014-05-22

Sample Preparation: 2014-05-22

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>457</b>	<b>457</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 363799 - 42-10**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112284

Prep Batch: 94932

Analytical Method: E 300.0

Date Analyzed: 2014-05-22

Sample Preparation: 2014-05-22

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	<b>1.25</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363799 - 42-10**

Laboratory: El Paso

Analysis: TDS

QC Batch: 112251

Prep Batch: 94906

Analytical Method: SM 2540C

Date Analyzed: 2014-05-23

Sample Preparation: 2014-05-23

Prep Method: N/A

Analyzed By: MC

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	<b>1420</b>	<b>1420</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363799 - 42-10**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112281 Date Analyzed: 2014-05-27 Analyzed By: CF  
 Prep Batch: 94930 Sample Preparation: 2014-05-27 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363800 - 42-11**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>312</b>	<b>312</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 363800 - 42-11**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	<b>1.87</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363800 - 42-11**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112251 Date Analyzed: 2014-05-23 Analyzed By: MC  
 Prep Batch: 94906 Sample Preparation: 2014-05-23 Prepared By: MC

*continued . . .*

*sample 363800 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>1120</b>	<b>1120</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363800 - 42-11**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112281

Prep Batch: 94930

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-05-27

Sample Preparation: 2014-05-27

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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363801 - 42-12**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112284

Prep Batch: 94932

Analytical Method: E 300.0

Date Analyzed: 2014-05-22

Sample Preparation: 2014-05-22

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	<b>337</b>	<b>337</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 363801 - 42-12**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112284

Prep Batch: 94932

Analytical Method: E 300.0

Date Analyzed: 2014-05-22

Sample Preparation: 2014-05-22

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	J	1	<b>2.18</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363801 - 42-12**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112315 Date Analyzed: 2014-05-27 Analyzed By: MC  
 Prep Batch: 94957 Sample Preparation: 2014-05-27 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	<b>1160</b>	<b>1160</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363801 - 42-12**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112281 Date Analyzed: 2014-05-27 Analyzed By: CF  
 Prep Batch: 94930 Sample Preparation: 2014-05-27 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363802 - 42-13**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>873</b>	<b>873</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363802 - 42-13**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 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	<b>50.9</b>	<b>50.9</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 363802 - 42-13**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112315 Date Analyzed: 2014-05-27 Analyzed By: MC  
 Prep Batch: 94957 Sample Preparation: 2014-05-27 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	<b>3560</b>	<b>3560</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363802 - 42-13**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112281 Date Analyzed: 2014-05-27 Analyzed By: CF  
 Prep Batch: 94930 Sample Preparation: 2014-05-27 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363803 - 42-Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 Prepared By: JR

*continued ...*

*sample 363803 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>1160</b>	<b>1160</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363803 - 42-Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 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	<b>2.60</b>	<b>2.60</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363803 - 42-Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112315 Date Analyzed: 2014-05-27 Analyzed By: MC  
 Prep Batch: 94957 Sample Preparation: 2014-05-27 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	<b>5720</b>	<b>5720</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363803 - 42-Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112528 Date Analyzed: 2014-06-04 Analyzed By: CF  
 Prep Batch: 95140 Sample Preparation: 2014-06-04 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	<b>155</b>	<b>155</b>	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112251  
Prep Batch: 94906Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112281  
Prep Batch: 94930Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

### Method Blank (1)

QC Batch: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

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Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

---

**Method Blank (1)**QC Batch: 112315  
Prep Batch: 94957Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: MC  
Prepared By: MC

---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

**Method Blank (1)**QC Batch: 112528  
Prep Batch: 95140Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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## Duplicates

**Duplicate (1)** Duplicated Sample: 363800QC Batch: 112251  
Prep Batch: 94906Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1150	1120	mg/L	1	3	10

**Duplicate (1)** Duplicated Sample: 363801QC Batch: 112315  
Prep Batch: 94957Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1080	1160	mg/L	1	7	10



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112251  
Prep Batch: 94906Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1000	mg/L	1	1000	<2.50	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	1000	mg/L	1	1000	<2.50	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: 112281  
Prep Batch: 94930Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	47.6	mg/L	1	50.0	<1.80	95	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 Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	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: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.9	mg/L	1	25.0	<0.0238	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		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	25.8	mg/L	1	25.0	<0.0238	103	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: 112284  
Prep Batch: 94932

Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	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		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	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: 112315  
Prep Batch: 94957

Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	1000	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	998	mg/L	1	1000	<2.50	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: 112528  
Prep Batch: 95140

Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04

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	44.1	mg/L	1	50.0	<1.80	88	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 Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.80	85	85 - 115	3	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: 363802QC Batch: 112281  
Prep Batch: 94930Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	80 - 120	6	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: 363936QC Batch: 112528  
Prep Batch: 95140Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	80 - 120	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

## Calibration Standards

### Standard (ICV-1)

QC Batch: 112281

Date Analyzed: 2014-05-27

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	mg/L	5.00	4.76	95	85 - 115	2014-05-27

### Standard (CCV-1)

QC Batch: 112281

Date Analyzed: 2014-05-27

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	mg/L	5.00	5.04	101	85 - 115	2014-05-27

### Standard (CCV-1)

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-05-22

### Standard (CCV-1)

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2014-05-22

**Standard (CCV-2)**

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-05-22

**Standard (CCV-2)**

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-05-22

**Standard (CCV-3)**

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-05-22

**Standard (CCV-3)**

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-05-22

**Standard (ICV-1)**

QC Batch: 112528

Date Analyzed: 2014-06-04

Analyzed By: CF

Report Date: June 4, 2014

Work Order: 14052233  
Dominguez Dairy #2

Page Number: 22 of 24  
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	mg/L	5.00	4.34	87	85 - 115	2014-06-04

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**Standard (CCV-1)**

QC Batch: 112528

Date Analyzed: 2014-06-04

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	mg/L	5.00	5.04	101	85 - 115	2014-06-04

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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	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

Company Name:  
 Phone #: 915-859-8150  
 Cell #:  
 Fax #:  
 E-mail: yayala@dhoupmp.com

D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person:  
 Victor Ayala

Project Location (including state):  
 Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM 88048  
 Project #: 441971  
 Dominguez Dairy #2  
 Project Name:  
 Dominguez Dairy #2  
 Sampler Signature: *Juys*

LAB #	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	
42-1		1	500	X					X							
42-2		1	250	X					X							
42-3		1	500	X					X							
42-4		1	250	X					X							
42-5		1	500	X					X							
42-6		1	250	X					X							
42-7		1	500	X					X							
42-8		1	250	X					X							
42-9		1	500	X					X							
42-10		1	250	X					X							
42-11		1	500	X					X							
42-12		1	250	X					X							

LAB Order ID #	ANALYSIS REQUEST											
14052233	TPH 418.1 / TX1005	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		
MTBE 8021B/602	BTEX 8021B/602	TX 1005 Extended (C35)										

Reinquisitioned By: *Juys* Date: 5-22-14 Time: 14:20

Received By: *D-704/H* Date: 5-22-14 Time: 14:20

Reinquisitioned By: *Dy alt* Date: 5-22-14 Time: 16:30

Received at Laboratory By: *D-704/H* Date: 5-22-14 Time: 14:20

Lab Use Only  
 Initial  Y  N  
 Headspace  Y  N  
 Temp R22 4/200  
 Log-in Review R

Remarks: ICE

Dry Weight Basis Required   
 TRRP Report Required

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
 LAB Order ID # 14052233

Company Name:  
 Phone #: 915-859-8150  
 Cell #:  
 Fax #:  
 E-mail: yayala@dhoupmp.com

D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person:  
 Victor Ayala

Project Location (including state):  
 Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM 88048  
 Project #: 441971  
 Dominguez Dairy #2  
 Project Name:  
 Dominguez Dairy #2  
 Sampler Signature: *Juys*

LAB #	Field Code	# Containers	Volume/Amount	WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	SAMPLING TIME	
42-1		1	500	X					X							
42-2		1	250	X					X							
42-3		1	500	X					X							
42-4		1	250	X					X							
42-5		1	500	X					X							
42-6		1	250	X					X							
42-7		1	500	X					X							
42-8		1	250	X					X							
42-9		1	500	X					X							
42-10		1	250	X					X							
42-11		1	500	X					X							
42-12		1	250	X					X							

Reinquisitioned By: *Juys* Date: 5-22-14 Time: 14:20

Received By: *D-704/H* Date: 5-22-14 Time: 14:20

Reinquisitioned By: *Dy alt* Date: 5-22-14 Time: 16:30

Received at Laboratory By: *D-704/H* Date: 5-22-14 Time: 14:20

Lab Use Only  
 Initial  Y  N  
 Headspace  Y  N  
 Temp R22 4/200  
 Log-in Review R

Remarks: ICE

Dry Weight Basis Required   
 TRRP Report Required

Company Name: D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: Victor Ayala  
 Phone #: 915-858-8150  
 Cell #:   
 Fax #:   
 E-mail: yayala@dhpump.com

Project Name: Dominguez Dairy #2  
 Project Location (including state): Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM  
 Project #: 44/971  
 Sampler Signature: *[Signature]*

Invoice to (if different from above): Isaac Dominguez 575-649-7040  
 Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048

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
3638α-1	42-12	1	250	X				X					5-22-14	11:55
1-2	42-12	1	250	X				X						11:55
802-1	42-13	1	500	X				X					10:23	
1-2	42-13	1	250	X				X					10:23	
803-1	42 Lagoon	1	500	X				X					9:59	
1-2	42 Lagoon	1	250	X				X					9:59	

ANALYSIS REQUEST

MTBE 8021B/602	TX 1005 Extended (C35)	PAH 8270C	PAH 8270 (Low Level Analysis)	Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/2007	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
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Remarks: ICE

Lab Use Only: Intact *[Signature]*

Headspace Y / N: *[Signature]*

Temp *122* / *4/100 C*

Log-in Review *[Signature]*

Received By: *[Signature]* Date: 5-22-14 Time: 14:20

Received at Laboratory By: *D-704H-* Date: 5-22-14 Time: 14:20

Relinquished By: *[Signature]* Date: 5-22-14 Time: 16:30

Relinquished By: *[Signature]* Date: 5-22-14 Time: 16:30

Dry Weight Basis Required

TRRP Report Required

*5-22-14*



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

Annelies DeRuyter  
Mountain View Dairy  
13090 Stern Drive  
P.O. Box 345  
Mesquite, NM, 88048

Report Date: June 5, 2014

Work Order: 14052238



Project Name: Old Well/New Well

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
363811	New Well	water	2014-05-22	16:30	2014-05-22
363812	Old Well	water	2014-05-22	16:30	2014-05-22

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.

This report consists of a total of 12 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  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Old Well/New Well were received by TraceAnalysis, Inc. on 2014-05-22 and assigned to work order 14052238. Samples for work order 14052238 were received intact at a temperature of 8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
NO3 (IC)	E 300.0	94932	2014-05-22 at 18:42	112284	2014-05-22 at 18:42
TKN	SM 4500-NH3 B,C	95140	2014-06-04 at 10:00	112528	2014-06-04 at 15:15

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 14052238 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: 363811 - New Well

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 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	<b>1.09</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

## Sample: 363811 - New Well

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112528 Date Analyzed: 2014-06-04 Analyzed By: CF  
 Prep Batch: 95140 Sample Preparation: 2014-06-04 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	<b>2.80</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

## Sample: 363812 - Old Well

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 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	<b>5.48</b>	<b>5.48</b>	<0.187	mg/L	5	0.187	0.5	0.0374

## Sample: 363812 - Old Well

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A

QC Batch: 112528  
Prep Batch: 95140

Date Analyzed: 2014-06-04  
Sample Preparation: 2014-06-04

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	J	2	<b>3.50</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8



---

## Method Blanks

### Method Blank (1)

QC Batch: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112528  
Prep Batch: 95140Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112284  
Prep Batch: 94932

Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	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: 112528  
Prep Batch: 95140

Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04

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	44.1	mg/L	1	50.0	<1.80	88	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.80	85	85 - 115	3	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: 363800

QC Batch: 112284  
Prep Batch: 94932

Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22

Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	284	mg/L	55.6	278	<2.08	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	283	mg/L	55.6	278	<2.08	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: 363936

QC Batch: 112528  
Prep Batch: 95140

Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04

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	43.4	mg/L	1	50.0	<1.80	87	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
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	80 - 120	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: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-05-22

### Standard (CCV-3)

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-05-22

### Standard (CCV-4)

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-05-22

### Standard (ICV-1)

QC Batch: 112528

Date Analyzed: 2014-06-04

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	mg/L	5.00	4.34	87	85 - 115	2014-06-04

**Standard (CCV-1)**

QC Batch: 112528

Date Analyzed: 2014-06-04

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	mg/L	5.00	5.04	101	85 - 115	2014-06-04

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## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

LAB Order ID # 14052238

Page 1 of 1

# TraceAnalysis, Inc.

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

email: lab@traceanalysis.com

Company Name: Mountain View Dairy  
Address: (Street, City, Zip)  
PO Box 345  
Contact Person: Anneli's DeRuyter

Phone #: 575-233-2029  
Fax #: 575-233-1138  
E-mail: lee.lee.1978@sbcglobal.net

Invoice to: (If different from above)  
Project #: Old well 1

Project Location (including state): Old well 1

Project Name: Old well 1  
Sampling Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		
				WATER	AIR	SLUDGE	HCl	HNO3	H2SO4	NaOH	ICE	NONE	DATE	TIME
36811-1	New well	1	500	X				X					5-22-14	4:30
36812-1	Old well	1	500	X				X					5-22-14	4:30
36813-1	Old well	1	500	X				X					5-22-14	4:30

## ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 824	TPH 418.1 / TX1005 / TX1005 EXI(C)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 825	Total Metals Ag As Ba Cd Cr Pb Se Hg 8010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 824	GC/MS Semi. Vol. 8270 / 825	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, PH	Moisture Content	Cl, F, S, O <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	

### REMARKS:

### LAB USE ONLY

INST:  OBS:  COR:   
 INST:  OBS:  COR:   
 INST:  OBS:  COR:   
 INST:  OBS:  COR:

Initial:  N  
 Headspace: Y / N / NA  
 Log-in:

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.

ORIGINAL COPY

Carrier # Carry



**TraceAnalysis, Inc.**  
 email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
 Lubbock, Texas 79424  
 Tel (806) 794-1296  
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200 East Sunset Rd., Suite E  
 El Paso, Texas 79922  
 Tel (915) 585-3443  
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 1 (888) 588-3443

BioAquatic Testing  
 2501 Mayes Rd., Ste 100  
 Carrollton, Texas 75006  
 Tel (972) 242-7750  
 Fax (575) 392-4508

Company Name: Mountain View Dairy  
 Address: (Street, City, Zip) PO Box 345  
 Contact Person: Annelis DeRuyter  
 Invoice to: (If different from above)  
 Project #: 575-233-2029  
 Fax #: 575-233-1138  
 E-mail: lee.lee.1978@sbcglobal.net

Project Name: Old well  
 Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		Turn Around Time if different from standard	
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE		TIME
36881-1	New well	1	500	X				X					4-22-14	4:30	
↓ 2		1	250	X					X				5-22-14	4:30	X TKN
36882-1	Old well	1	500	X				X					5-22-14		
↓ 2		1	250	X					X				4-22-14	1630	X

**ANALYSIS REQUEST**  
 (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	
BTEX 8021 / 602 / 8260 / 624	
TPH 418.1 / TX1005 / TX1005 Ext/CS	
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

Relequished by: [Signature] Company: TDS Date: 5-22-14 Time: 161735  
 INST OBS COR 0 0 0  
 Received by: [Signature] Company: TDS Date: 5-22-14 Time: 1735  
 INST OBS COR 0 0 0

Relequished by: [Signature] Company: TDS Date: 5-22-14 Time: 1630  
 INST OBS COR 0 0 0  
 Received by: [Signature] Company: TDS Date: 5-24-14 Time: 9:20  
 INST OBS COR 0 0 0

Carrier # 1548891828

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	SO4 (IC)	Date Analyzed:	2014-05-17	Analyzed By:	JR
QC Batch:	112057	Sample Preparation:	2014-05-17	Prepared By:	JR
Prep Batch:	94746				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	<b>1350</b>	<b>1350</b>	<1.30	mg/L	50	1.30	2.5	0.026

**Sample: 363141 - 70-03**

Laboratory:	El Paso	Analytical Method:	SM 2540C	Prep Method:	N/A
Analysis:	TDS	Date Analyzed:	2014-05-19	Analyzed By:	MC
QC Batch:	112083	Sample Preparation:	2014-05-19	Prepared By:	MC
Prep Batch:	94763				

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>6880</b>	<b>6880</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363141 - 70-03**

Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-05-21	Analyzed By:	CF
QC Batch:	112150	Sample Preparation:	2014-05-21	Prepared By:	CF
Prep Batch:	94818				

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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363142 - 70-04**

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2014-05-17	Analyzed By:	JR
QC Batch:	112057	Sample Preparation:	2014-05-17	Prepared By:	JR
Prep Batch:	94746				

*continued ...*

*sample 363142 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>610</b>	<b>610</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363142 - 70-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 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	<b>24.6</b>	<b>24.6</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363142 - 70-04**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	<b>565</b>	<b>565</b>	<1.30	mg/L	50	1.30	2.5	0.026

**Sample: 363142 - 70-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112083 Date Analyzed: 2014-05-19 Analyzed By: MC  
 Prep Batch: 94763 Sample Preparation: 2014-05-19 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	<b>2630</b>	<b>2630</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363142 - 70-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
 Prep Batch: 94818 Sample Preparation: 2014-05-21 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363143 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1800</b>	<b>1800</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363143 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 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	<b>5.85</b>	<b>5.85</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363143 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Comment: Sulfate result used for total Sulfur reported value.

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	<b>56.2</b>	<b>56.2</b>	<0.130	mg/L	5	0.130	2.5	0.026

**Sample: 363143 - 70-Lagoon**

Laboratory: Lubbock  
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A  
 QC Batch: 112091 Date Analyzed: 2014-05-20 Analyzed By: CF  
 Prep Batch: 94770 Sample Preparation: 2014-05-20 Prepared By: CF

Comment: Sulfide result used for total Sulfur reported value.

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfide		Qs	<b>5.82</b>	<b>5.82</b>	<0.117	mg/L	10	0.117	0.1	0.0117

**Sample: 363143 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112083 Date Analyzed: 2014-05-19 Analyzed By: MC  
 Prep Batch: 94763 Sample Preparation: 2014-05-19 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	<b>8810</b>	<b>8810</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363143 - 70-Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
 Prep Batch: 94818 Sample Preparation: 2014-05-21 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	<b>448</b>	<b>448</b>	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0260	mg/L	0.026

### Method Blank (1)

QC Batch: 112057  
Prep Batch: 94746Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17Analyzed By: JR  
Prepared By: JR

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Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

---

**Method Blank (1)**QC Batch: 112057  
Prep Batch: 94746Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17Analyzed By: JR  
Prepared By: JR

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Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.251	mg/L	0.0374

---

**Method Blank (1)**QC Batch: 112057  
Prep Batch: 94746Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17Analyzed By: JR  
Prepared By: JR

---

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0260	mg/L	0.026

---

**Method Blank (1)**QC Batch: 112083  
Prep Batch: 94763Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: MC  
Prepared By: MC

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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

**Method Blank (1)**QC Batch: 112091  
Prep Batch: 94770Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Sulfide			<0.0117	mg/L	0.0117

---

**Method Blank (1)**QC Batch: 112095  
Prep Batch: 94775Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: JR  
Prepared By: JR

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Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

---

**Method Blank (1)**QC Batch: 112150  
Prep Batch: 94818Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---



# Duplicates

**Duplicate (1)**    Duplicated Sample: 363131

QC Batch: 112083  
 Prep Batch: 94763

Date Analyzed: 2014-05-19  
 QC Preparation: 2014-05-19

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2120	2200	mg/L	1	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.8	mg/L	1	25.0	<0.0238	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.7	mg/L	1	25.0	<0.0238	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: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.87	mg/L	1	5.00	<0.0374	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.85	mg/L	1	5.00	<0.0374	97	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: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Sulfate		1	24.8	mg/L	1	25.0	<0.0260	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfate		1	24.7	mg/L	1	25.0	<0.0260	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: 112057  
Prep Batch: 94746

Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Chloride		1	26.1	mg/L	1	25.0	<0.0238	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		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	26.2	mg/L	1	25.0	<0.0238	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: 112057  
Prep Batch: 94746

Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	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		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.13	mg/L	1	5.00	<0.0374	103	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: 112057  
Prep Batch: 94746

Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfate		1	26.1	mg/L	1	25.0	<0.0260	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfate		1	26.3	mg/L	1	25.0	<0.0260	105	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: 112083  
Prep Batch: 94763

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	972	mg/L	1	1000	<2.50	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	900	mg/L	1	1000	<2.50	90	90 - 110	8	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: 112091  
Prep Batch: 94770

Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfide			0.405	mg/L	1	0.400	<0.0117	101	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			0.400	mg/L	1	0.400	<0.0117	100	85 - 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: 112095  
Prep Batch: 94775

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.8	mg/L	1	25.0	<0.0238	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	24.9	mg/L	1	25.0	<0.0238	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: 112150  
Prep Batch: 94818

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

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	44.1	mg/L	1	50.0	<1.80	88	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 Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	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: 363134

QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1820	mg/L	55.6	1390	404	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1810	mg/L	55.6	1390	404	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: 363134

QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	289	mg/L	55.6	278	15.4	98	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	286	mg/L	55.6	278	15.4	97	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: 363134

QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfate		1	2010	mg/L	55.6	1390	571	104	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							
Sulfate		1	2000	mg/L	55.6	1390	571	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: 363143

QC Batch: 112091 Date Analyzed: 2014-05-20 Analyzed By: CF  
Prep Batch: 94770 QC Preparation: 2014-05-20 Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfide	Qs		5.11	mg/L	10	4.00	5.82	-16	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							
Sulfide	Qs		5.38	mg/L	10	4.00	5.82	-11	80 - 120	5	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: 363362

QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
Prep Batch: 94818 QC Preparation: 2014-05-21 Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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							
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	80 - 120	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: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-16

### Standard (CCV-2)

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.84	97	90 - 110	2014-05-16

### Standard (CCV-2)

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.4	98	90 - 110	2014-05-16

### Standard (CCV-3)

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-16



**Standard (CCV-3)**

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.85	97	90 - 110	2014-05-16

**Standard (CCV-3)**

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.4	98	90 - 110	2014-05-16

**Standard (CCV-4)**

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-16

**Standard (CCV-4)**

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-05-16

**Standard (CCV-4)**

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.5	98	90 - 110	2014-05-16

**Standard (CCV-1)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-17

**Standard (CCV-1)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-05-17

**Standard (CCV-1)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.5	98	90 - 110	2014-05-17

**Standard (CCV-2)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-17

**Standard (CCV-2)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-05-17

**Standard (CCV-2)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.4	98	90 - 110	2014-05-17

**Standard (CCV-3)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-05-17

**Standard (CCV-3)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-05-17

**Standard (CCV-3)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.6	98	90 - 110	2014-05-17

**Standard (ICV-1)**

QC Batch: 112091

Date Analyzed: 2014-05-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide			mg/L	0.400	0.419	105	85 - 115	2014-05-20

**Standard (CCV-1)**

QC Batch: 112091

Date Analyzed: 2014-05-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide			mg/L	0.400	0.422	106	85 - 115	2014-05-20

**Standard (CCV-1)**

QC Batch: 112095

Date Analyzed: 2014-05-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-05-19

**Standard (CCV-2)**

QC Batch: 112095

Date Analyzed: 2014-05-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-05-19

**Standard (ICV-1)**

QC Batch: 112150

Date Analyzed: 2014-05-21

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	mg/L	5.00	4.48	90	85 - 115	2014-05-21

**Standard (CCV-1)**

QC Batch: 112150

Date Analyzed: 2014-05-21

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	mg/L	5.00	4.76	95	85 - 115	2014-05-21

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.0625	Pass
Sulfide	SM 4500-S2 D	water	Spectrophotometer	Sulfide	0.0500	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

1405632 TraceAnalysis, Inc.  
 Paso, TX 79932  
 Tel (915) 585-3443  
 Fax (915) 585-4944

Company Name: D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: Victor Ayala  
 Invoice to (if different from above):  
 Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048  
 Project #: 441981

Project Name: Mountain View Dairy  
 Sampler Signature: *July*  
 Project Location (including state):  
 Mountain View Dairy, 13090 Stern Drive, Mesquite, NM

Phone #: 915-859-8150  
 Cell #:  
 Fax #:  
 E-mail: vayala@dhpump.com

Project Name: Mountain View Dairy  
 Project #: 441981  
 Sampler Signature: *July*

Project Location (including state):  
 Mountain View Dairy, 13090 Stern Drive, Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		DATE	TIME	Hold
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE			
363140	70-01	1	566	X				X				X		5-15-14	10:47	
140-2	70-01	1	250	X				X				X		5-15-14	10:47	
70-02	70-02	1	500	X				X				X				
141-1	70-03	1	250	X				X				X				
141-2	70-03	1	250	X				X				X				
142-1	70-04 363140-1	1	500 ML	X				X				X			9:13	
142-2	70-04 142-2	1	250	X				X				X			9:13	
143-1	70 Lagoon 143-1	1	560	X				X				X			11:22	
143-2	70 Lagoon 143-2	1	250 ML	X				X				X			9:46	
143-3	70 Lagoon -1433	1	250 ML	X				X				X			9:40	
	North Stormwater Lagoon	1		X				X				X				
	North Stormwater Lagoon	1		X				X				X				
	North Stormwater Lagoon	1		X				X				X				

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		

Relinquished By: *July* Date: 5-15-14 Time: 14:25  
 Relinquished By: *AKC TAP* Date: 5-15-14 Time: 16:30  
 Received at Laboratory By: *AKC TAP* Date: 5-15-14 Time: 19:25  
 Received By: *AKC* Date: 5/10/14 Time: 8:45

Lab Use Only: Y/N  
 Headspace: Y/N  
 Temp: *102-12*  
 Log-in Review: *[Signature]*  
 Dry Weight Basis Required  
 TRRP Report Required

Remarks: *Oil 15:48891829*  
*TCW analysis w/ 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

John DeRuyter  
 Mountain View Dairy  
 13090 Stern Drive  
 P.O. Box 345  
 Mesquite, NM, 88048

Report Date: June 5, 2014

Work Order: 14051532



DP: 70  
 Project Location: 13090 Stern Dr., Mesquite, NM  
 Project Name: Mountain View 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
363140	70-01	water	2014-05-15	10:47	2014-05-15
363141	70-03	water	2014-05-15	09:13	2014-05-15
363142	70-04	water	2014-05-15	11:22	2014-05-15
363143	70-Lagoon	water	2014-05-15	09:40	2014-05-15

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.

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.*

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2014-05-15 and assigned to work order 14051532. Samples for work order 14051532 were received intact at a temperature of 2 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	94744	2014-05-16 at 17:10	112055	2014-05-16 at 17:10
Chloride (IC)	E 300.0	94746	2014-05-17 at 02:26	112057	2014-05-17 at 02:26
Chloride (IC)	E 300.0	94775	2014-05-19 at 18:49	112095	2014-05-19 at 18:49
NO3 (IC)	E 300.0	94744	2014-05-16 at 17:10	112055	2014-05-16 at 17:10
NO3 (IC)	E 300.0	94746	2014-05-17 at 02:26	112057	2014-05-17 at 02:26
SO4 (IC)	E 300.0	94744	2014-05-16 at 17:10	112055	2014-05-16 at 17:10
SO4 (IC)	E 300.0	94746	2014-05-17 at 02:26	112057	2014-05-17 at 02:26
Sulfide	SM 4500-S2 D	94770	2014-05-20 at 09:15	112091	2014-05-20 at 11:20
TDS	SM 2540C	94763	2014-05-19 at 13:20	112083	2014-05-19 at 13:20
TKN	SM 4500-NH3 B,C	94818	2014-05-21 at 12:00	112150	2014-05-21 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 14051532 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: 363140 - 70-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
 Prep Batch: 94744 Sample Preparation: 2014-05-16 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>632</b>	<b>632</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363140 - 70-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
 Prep Batch: 94744 Sample Preparation: 2014-05-16 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	<b>23.3</b>	<b>23.3</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363140 - 70-01**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
 Prep Batch: 94744 Sample Preparation: 2014-05-16 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	<b>495</b>	<b>495</b>	<1.30	mg/L	50	1.30	2.5	0.026

**Sample: 363140 - 70-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112083 Date Analyzed: 2014-05-19 Analyzed By: MC  
 Prep Batch: 94763 Sample Preparation: 2014-05-19 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	<b>2540</b>	<b>2540</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363140 - 70-01**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112150

Prep Batch: 94818

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-05-21

Sample Preparation: 2014-05-21

Prep Method: N/A

Analyzed By: CF

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	J	2	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363141 - 70-03**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112095

Prep Batch: 94775

Analytical Method: E 300.0

Date Analyzed: 2014-05-19

Sample Preparation: 2014-05-19

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>2580</b>	<b>2580</b>	<2.38	mg/L	100	2.38	2.5	0.0238

**Sample: 363141 - 70-03**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112057

Prep Batch: 94746

Analytical Method: E 300.0

Date Analyzed: 2014-05-17

Sample Preparation: 2014-05-17

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>48.6</b>	<b>48.6</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 363141 - 70-03**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1	<b>1350</b>	<b>1350</b>	<1.30	mg/L	50	1.30	2.5	0.026

**Sample: 363141 - 70-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112083 Date Analyzed: 2014-05-19 Analyzed By: MC  
 Prep Batch: 94763 Sample Preparation: 2014-05-19 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	<b>6880</b>	<b>6880</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363141 - 70-03**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
 Prep Batch: 94818 Sample Preparation: 2014-05-21 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363142 - 70-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

*continued ...*



*sample 363142 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>610</b>	<b>610</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363142 - 70-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 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	<b>24.6</b>	<b>24.6</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363142 - 70-04**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	<b>565</b>	<b>565</b>	<1.30	mg/L	50	1.30	2.5	0.026

**Sample: 363142 - 70-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112083 Date Analyzed: 2014-05-19 Analyzed By: MC  
 Prep Batch: 94763 Sample Preparation: 2014-05-19 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	<b>2630</b>	<b>2630</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363142 - 70-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
 Prep Batch: 94818 Sample Preparation: 2014-05-21 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363143 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1800</b>	<b>1800</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363143 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 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	<b>5.85</b>	<b>5.85</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363143 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112057 Date Analyzed: 2014-05-17 Analyzed By: JR  
 Prep Batch: 94746 Sample Preparation: 2014-05-17 Prepared By: JR

Comment: Sulfate result used for total Sulfur reported value.

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	<b>56.2</b>	<b>56.2</b>	<0.130	mg/L	5	0.130	2.5	0.026

**Sample: 363143 - 70-Lagoon**

Laboratory: Lubbock  
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A  
 QC Batch: 112091 Date Analyzed: 2014-05-20 Analyzed By: CF  
 Prep Batch: 94770 Sample Preparation: 2014-05-20 Prepared By: CF

Comment: Sulfide result used for total Sulfur reported value.

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfide		Qs	<b>5.82</b>	<b>5.82</b>	<0.117	mg/L	10	0.117	0.1	0.0117

**Sample: 363143 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112083 Date Analyzed: 2014-05-19 Analyzed By: MC  
 Prep Batch: 94763 Sample Preparation: 2014-05-19 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	<b>8810</b>	<b>8810</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363143 - 70-Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
 Prep Batch: 94818 Sample Preparation: 2014-05-21 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	<b>448</b>	<b>448</b>	<1.80	mg/L	1	1.80	10	1.8

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## Method Blanks

### Method Blank (1)

QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0260	mg/L	0.026

### Method Blank (1)

QC Batch: 112057  
Prep Batch: 94746Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

**Method Blank (1)**QC Batch: 112057  
Prep Batch: 94746Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.251	mg/L	0.0374

**Method Blank (1)**QC Batch: 112057  
Prep Batch: 94746Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0260	mg/L	0.026

**Method Blank (1)**QC Batch: 112083  
Prep Batch: 94763Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

**Method Blank (1)**QC Batch: 112091  
Prep Batch: 94770Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Sulfide			<0.0117	mg/L	0.0117

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**Method Blank (1)**QC Batch: 112095  
Prep Batch: 94775Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: JR  
Prepared By: JR

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Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

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**Method Blank (1)**QC Batch: 112150  
Prep Batch: 94818Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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# Duplicates

**Duplicate (1)**    Duplicated Sample: 363131

QC Batch: 112083  
Prep Batch: 94763

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2120	2200	mg/L	1	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.8	mg/L	1	25.0	<0.0238	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.7	mg/L	1	25.0	<0.0238	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: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.87	mg/L	1	5.00	<0.0374	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.85	mg/L	1	5.00	<0.0374	97	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: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Sulfate		1	24.8	mg/L	1	25.0	<0.0260	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfate		1	24.7	mg/L	1	25.0	<0.0260	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: 112057  
Prep Batch: 94746

Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	26.1	mg/L	1	25.0	<0.0238	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	26.2	mg/L	1	25.0	<0.0238	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: 112057  
Prep Batch: 94746

Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.13	mg/L	1	5.00	<0.0374	103	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: 112057  
Prep Batch: 94746

Date Analyzed: 2014-05-17  
QC Preparation: 2014-05-17

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	26.1	mg/L	1	25.0	<0.0260	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	
Sulfate		1	26.3	mg/L	1	25.0	<0.0260	105	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: 112083  
Prep Batch: 94763

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	972	mg/L	1	1000	<2.50	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. Limit	RPD	RPD Limit	
Total Dissolved Solids		1	900	mg/L	1	1000	<2.50	90	90 - 110	8	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: 112091  
Prep Batch: 94770

Date Analyzed: 2014-05-20  
QC Preparation: 2014-05-20

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfide			0.405	mg/L	1	0.400	<0.0117	101	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			0.400	mg/L	1	0.400	<0.0117	100	85 - 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: 112095  
Prep Batch: 94775Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	24.8	mg/L	1	25.0	<0.0238	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							
Chloride		1	24.9	mg/L	1	25.0	<0.0238	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: 112150  
Prep Batch: 94818Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	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: 363134QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1820	mg/L	55.6	1390	404	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1810	mg/L	55.6	1390	404	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: 363134QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	289	mg/L	55.6	278	15.4	98	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	286	mg/L	55.6	278	15.4	97	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: 363134QC Batch: 112055  
Prep Batch: 94744Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfate		1	2010	mg/L	55.6	1390	571	104	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							
Sulfate		1	2000	mg/L	55.6	1390	571	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: 363143

QC Batch: 112091 Date Analyzed: 2014-05-20 Analyzed By: CF  
Prep Batch: 94770 QC Preparation: 2014-05-20 Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfide	Qs		5.11	mg/L	10	4.00	5.82	-16	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							
Sulfide	Qs		5.38	mg/L	10	4.00	5.82	-11	80 - 120	5	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: 363362

QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
Prep Batch: 94818 QC Preparation: 2014-05-21 Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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							
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	80 - 120	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: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-16

### Standard (CCV-2)

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.84	97	90 - 110	2014-05-16

### Standard (CCV-2)

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.4	98	90 - 110	2014-05-16

### Standard (CCV-3)

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-16

**Standard (CCV-3)**

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.85	97	90 - 110	2014-05-16

**Standard (CCV-3)**

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.4	98	90 - 110	2014-05-16

**Standard (CCV-4)**

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-16

**Standard (CCV-4)**

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-05-16

**Standard (CCV-4)**

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.5	98	90 - 110	2014-05-16

**Standard (CCV-1)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-17

**Standard (CCV-1)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-05-17

**Standard (CCV-1)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.5	98	90 - 110	2014-05-17

**Standard (CCV-2)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-17



**Standard (CCV-2)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-05-17

**Standard (CCV-2)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.4	98	90 - 110	2014-05-17

**Standard (CCV-3)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-05-17

**Standard (CCV-3)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-05-17

**Standard (CCV-3)**

QC Batch: 112057

Date Analyzed: 2014-05-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.6	98	90 - 110	2014-05-17

**Standard (ICV-1)**

QC Batch: 112091

Date Analyzed: 2014-05-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide			mg/L	0.400	0.419	105	85 - 115	2014-05-20

**Standard (CCV-1)**

QC Batch: 112091

Date Analyzed: 2014-05-20

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide			mg/L	0.400	0.422	106	85 - 115	2014-05-20

**Standard (CCV-1)**

QC Batch: 112095

Date Analyzed: 2014-05-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-05-19

**Standard (CCV-2)**

QC Batch: 112095

Date Analyzed: 2014-05-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-05-19

**Standard (ICV-1)**

QC Batch: 112150

Date Analyzed: 2014-05-21

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	mg/L	5.00	4.48	90	85 - 115	2014-05-21

**Standard (CCV-1)**

QC Batch: 112150

Date Analyzed: 2014-05-21

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	mg/L	5.00	4.76	95	85 - 115	2014-05-21

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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	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.0625	Pass
Sulfide	SM 4500-S2 D	water	Spectrophotometer	Sulfide	0.0500	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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 Petroleum & Environmental Services Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907 Contact Person: Victor Ayala Invoice to (if different from above): Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048 Project #: 441981 Project Name: Mountain View Dairy Sampler Signature: *July* 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	ICF	NONE	DATE	TIME	
363140	70-01	1	560	X				X			X				5-15-14	10:47
140-2	70-01	1	250	X				X			X					10:47
70-02		1	560	X				X			X					
70-02		1	250	X				X			X					
141-1	70-03	1	560	X				X			X					9:13
141-2	70-03	1	250	X				X			X					9:13
142-1	70-04	1	500ML	X				X			X					11:22
142-2	70-04	1	250	X				X			X					11:22
143-1	70 Lagoon	1	560	X				X			X					9:40
143-2	70 Lagoon	1	250ML	X				X			X					9:40
143-3	70 Lagoon	1	250ML	X				X			X					9:40
	North Stormwater-Lagoon	1						X			X					
	North Stormwater-Lagoon	1						X			X					
	North Stormwater-Lagoon	1						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)	
Phosphorus SM 4500	
Nitrates EPA 300	
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Sulfate EPA Method 300.0	X
Total Sulfur	
Turn Around Time	
Hold	

Remarks: nice 15:48891829  
Ten analysis in Lubbock

Relinquished By: *July* Date: 5-15-14 Time: 14:25 Received By: *MIC TAPP* Date: 5-15-14 Time: 19:25  
Relinquished By: *MIC TAPP* Date: 5-15-14 Time: 16:30 Received At Laboratory By: *MA TA* Date: 5/10/14 Time: 8:45

Lab Use Only Y/N: Intad Y, I, N  
Headspace Y/N: Y, I, N  
Temp: 12  
Log-in Review: *MA TA*  
Dry Weight Basis Required:   
TRRP Report Required:

Page 1 of 1  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
LAB Order ID # 14051532



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  
Organ Dairy LLC

Report Date: June 5, 2014

P.O. Box 130  
Mesilla Park, NM, 88047

Work Order: 14051530



Project Location: 12560 Stern Dr., Mesquite, NM  
Project Name: Organ Dairy  
Project Number: N/A

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
363131	126-4	water	2014-05-15	12:53	2014-05-15
363132	126-5	water	2014-05-15	13:14	2014-05-15
363133	126-9	water	2014-05-15	08:35	2014-05-15
363134	126-12	water	2014-05-15	13:58	2014-05-15
363135	126-13	water	2014-05-15	12:07	2014-05-15
363136	126-Lagoon	water	2014-05-15	12:20	2014-05-15

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.

This report consists of a total of 24 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.*

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager



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## Case Narrative

Samples for project Organ Dairy were received by TraceAnalysis, Inc. on 2014-05-15 and assigned to work order 14051530. Samples for work order 14051530 were received intact at a temperature of 2 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	94744	2014-05-16 at 17:10	112055	2014-05-16 at 17:10
NO3 (IC)	E 300.0	94744	2014-05-16 at 17:10	112055	2014-05-16 at 17:10
TDS	SM 2540C	94763	2014-05-19 at 13:20	112083	2014-05-19 at 13:20
TKN	SM 4500-NH3 B,C	94756	2014-05-19 at 09:30	112071	2014-05-19 at 13:40
TKN	SM 4500-NH3 B,C	94818	2014-05-21 at 12:00	112150	2014-05-21 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 14051530 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: 363131 - 126-4

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112055                              Date Analyzed: 2014-05-16                      Analyzed By: JR  
 Prep Batch: 94744                              Sample Preparation: 2014-05-16                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>514</b>	<b>514</b>	<1.19	mg/L	50	1.19	2.5	0.0238

## Sample: 363131 - 126-4

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 112055                              Date Analyzed: 2014-05-16                              Analyzed By: JR  
 Prep Batch: 94744                              Sample Preparation: 2014-05-16                              Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>17.4</b>	<b>17.4</b>	<0.187	mg/L	5	0.187	0.5	0.0374

## Sample: 363131 - 126-4

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 112083                              Date Analyzed: 2014-05-19                              Analyzed By: MC  
 Prep Batch: 94763                              Sample Preparation: 2014-05-19                              Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2200</b>	<b>2200</b>	<2.50	mg/L	1	2.50	2.5	2.5

## Sample: 363131 - 126-4

Laboratory: Lubbock  
 Analysis: TKN                                      Analytical Method: SM 4500-NH3 B,C                              Prep Method: N/A  
 QC Batch: 112071                              Date Analyzed: 2014-05-19                              Analyzed By: CF  
 Prep Batch: 94756                              Sample Preparation: 2014-05-19                              Prepared By: CF

Report Date: June 5, 2014  
N/A

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Organ Dairy

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	<b>16.1</b>	<b>16.1</b>	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363132 - 126-5**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 112055      Date Analyzed: 2014-05-16      Analyzed By: JR  
 Prep Batch: 94744      Sample Preparation: 2014-05-16      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>637</b>	<b>637</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363132 - 126-5**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 112055      Date Analyzed: 2014-05-16      Analyzed By: JR  
 Prep Batch: 94744      Sample Preparation: 2014-05-16      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>23.0</b>	<b>23.0</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363132 - 126-5**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 112083      Date Analyzed: 2014-05-19      Analyzed By: MC  
 Prep Batch: 94763      Sample Preparation: 2014-05-19      Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2960</b>	<b>2960</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363132 - 126-5**

Report Date: June 5, 2014  
N/A

Work Order: 14051530  
Organ Dairy

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Laboratory: Lubbock  
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
QC Batch: 112071 Date Analyzed: 2014-05-19 Analyzed By: CF  
Prep Batch: 94756 Sample Preparation: 2014-05-19 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>4.90</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363133 - 126-9**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
Prep Batch: 94744 Sample Preparation: 2014-05-16 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>893</b>	<b>893</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363133 - 126-9**

Laboratory: El Paso  
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
Prep Batch: 94744 Sample Preparation: 2014-05-16 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>2.52</b>	<b>2.52</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363133 - 126-9**

Laboratory: El Paso  
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
QC Batch: 112083 Date Analyzed: 2014-05-19 Analyzed By: MC  
Prep Batch: 94763 Sample Preparation: 2014-05-19 Prepared By: MC

*continued . . .*

Report Date: June 5, 2014  
N/A

Work Order: 14051530  
Organ Dairy

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sample 363133 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2690	2690	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363133 - 126-9**

Laboratory: Lubbock  
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
QC Batch: 112071 Date Analyzed: 2014-05-19 Analyzed By: CF  
Prep Batch: 94756 Sample Preparation: 2014-05-19 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363134 - 126-12**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
Prep Batch: 94744 Sample Preparation: 2014-05-16 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	404	404	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 363134 - 126-12**

Laboratory: El Paso  
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
Prep Batch: 94744 Sample Preparation: 2014-05-16 Prepared By: JR

Report Date: June 5, 2014  
N/A

Work Order: 14051530  
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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	<b>15.4</b>	<b>15.4</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363134 - 126-12**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112083 Date Analyzed: 2014-05-19 Analyzed By: MC  
 Prep Batch: 94763 Sample Preparation: 2014-05-19 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	<b>2250</b>	<b>2250</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363134 - 126-12**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112071 Date Analyzed: 2014-05-19 Analyzed By: CF  
 Prep Batch: 94756 Sample Preparation: 2014-05-19 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	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363135 - 126-13**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
 Prep Batch: 94744 Sample Preparation: 2014-05-16 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>841</b>	<b>841</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363135 - 126-13**



Report Date: June 5, 2014  
N/A

Work Order: 14051530  
Organ Dairy

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Laboratory: El Paso  
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
Prep Batch: 94744 Sample Preparation: 2014-05-16 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	49.5	49.5	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363135 - 126-13**

Laboratory: El Paso  
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
QC Batch: 112083 Date Analyzed: 2014-05-19 Analyzed By: MC  
Prep Batch: 94763 Sample Preparation: 2014-05-19 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	3010	3010	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363135 - 126-13**

Laboratory: Lubbock  
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
Prep Batch: 94818 Sample Preparation: 2014-05-21 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363136 - 126-Lagoon**

Laboratory: El Paso  
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
Prep Batch: 94744 Sample Preparation: 2014-05-16 Prepared By: JR

*continued ...*

sample 363136 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>1340</b>	<b>1340</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363136 - 126-Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
 Prep Batch: 94744 Sample Preparation: 2014-05-16 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	<b>4.84</b>	<b>4.84</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363136 - 126-Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112083 Date Analyzed: 2014-05-19 Analyzed By: MC  
 Prep Batch: 94763 Sample Preparation: 2014-05-19 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	<b>6020</b>	<b>6020</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363136 - 126-Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112150 Date Analyzed: 2014-05-21 Analyzed By: CF  
 Prep Batch: 94818 Sample Preparation: 2014-05-21 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	<b>357</b>	<b>357</b>	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112055  
Prep Batch: 94744

Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112055  
Prep Batch: 94744

Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16

Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112071  
Prep Batch: 94756

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

Analyzed By: CF  
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

### Method Blank (1)

QC Batch: 112083  
Prep Batch: 94763

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

Analyzed By: MC  
Prepared By: MC

Report Date: June 5, 2014  
N/A

Work Order: 14051530  
Organ Dairy

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---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

**Method Blank (1)**

QC Batch: 112150  
Prep Batch: 94818

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

# Duplicates

Duplicate (1) Duplicated Sample: 363131

QC Batch: 112083  
Prep Batch: 94763

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2120	2200	mg/L	1	4	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112055  
Prep Batch: 94744

Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.8	mg/L	1	25.0	<0.0238	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.7	mg/L	1	25.0	<0.0238	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: 112055  
Prep Batch: 94744

Date Analyzed: 2014-05-16  
QC Preparation: 2014-05-16

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.87	mg/L	1	5.00	<0.0374	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.85	mg/L	1	5.00	<0.0374	97	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: 112071  
Prep Batch: 94756

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 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: 112083  
Prep Batch: 94763

Date Analyzed: 2014-05-19  
QC Preparation: 2014-05-19

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	972	mg/L	1	1000	<2.50	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		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	900	mg/L	1	1000	<2.50	90	90 - 110	8	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: 112150  
Prep Batch: 94818

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	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: 363134

QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
Prep Batch: 94744 QC Preparation: 2014-05-16 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1820	mg/L	55.6	1390	404	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1810	mg/L	55.6	1390	404	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: 363134

QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR  
Prep Batch: 94744 QC Preparation: 2014-05-16 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	289	mg/L	55.6	278	15.4	98	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	286	mg/L	55.6	278	15.4	97	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: 363134

QC Batch: 112071 Date Analyzed: 2014-05-19 Analyzed By: CF  
Prep Batch: 94756 QC Preparation: 2014-05-19 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	2.1	83	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.



Report Date: June 5, 2014  
N/A

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Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	48.3	mg/L	1	50.0	2.1	97	80 - 120	11	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: 363362

QC Batch: 112150  
Prep Batch: 94818

Date Analyzed: 2014-05-21  
QC Preparation: 2014-05-21

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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							
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	80 - 120	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: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2014-05-16

### Standard (CCV-1)

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.80	96	90 - 110	2014-05-16

### Standard (CCV-2)

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-16

### Standard (CCV-2)

QC Batch: 112055

Date Analyzed: 2014-05-16

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.84	97	90 - 110	2014-05-16

Report Date: June 5, 2014  
N/A

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Organ Dairy

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**Standard (CCV-3)**

QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-16

**Standard (CCV-3)**

QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.85	97	90 - 110	2014-05-16

**Standard (CCV-4)**

QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-16

**Standard (CCV-4)**

QC Batch: 112055 Date Analyzed: 2014-05-16 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-05-16

**Standard (ICV-1)**

QC Batch: 112071 Date Analyzed: 2014-05-19 Analyzed By: CF

Report Date: June 5, 2014  
N/A

Work Order: 14051530  
Organ Dairy

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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	mg/L	5.00	4.48	90	85 - 115	2014-05-19

**Standard (CCV-1)**

QC Batch: 112071

Date Analyzed: 2014-05-19

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	mg/L	5.00	4.90	98	85 - 115	2014-05-19

**Standard (ICV-1)**

QC Batch: 112150

Date Analyzed: 2014-05-21

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	mg/L	5.00	4.48	90	85 - 115	2014-05-21

**Standard (CCV-1)**

QC Batch: 112150

Date Analyzed: 2014-05-21

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	mg/L	5.00	4.76	95	85 - 115	2014-05-21

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

**14051530 Trace Analysis, Inc.**  
 Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298  
 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  
 Project #: 441983  
 Project Name: Organ Dairy  
 Project Location (including state): Organ Dairy, 12560 Stern Drive, Mesquite, NM  
 Sampler Signature: [Signature]  
 Linda Armstrong 575-233-3620

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
363-131	126-4	1		X				X					5-15-14	12:53
132-1	126-4	1		X				X					12:53	
132-1	126-5	1	500	X				X					13:14	
132-2	126-5	1	250	X				X					13:14	
426-7	126-7	1		X				X						
126-7	126-7	1		X				X						
133-1	126-9	1		X				X					8:35	
133-2	126-9	1		X				X					8:35	
134-1	126-12	1	500	X				X					13:58	
134-2	126-12	1	250	X				X					13:58	
135-1	126-13	1		X				X					12:07	
135-2	126-13	1		X				X					12:07	
136-1	126 Lagoon	1	500	X				X					12:20	
136-2	126 Lagoon	1	250	X				X					12:20	

**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
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Phosphorus SM 4500	
Turn Around Time	
Hold	

Relinquished By: [Signature] Date: 5-15-14 Time: 14:35  
 Relinquished By: [Signature] Date: 5-15-14 Time: 16:30

Received By: [Signature] Date: 5-15-14 Time: 14:25  
 Received at Laboratory By: [Signature] Date: 5-16-14 Time: 8:45

Lab Use Only  
 Intact: Y / N  
 Headspace: Y / N  
 Temp: 102 / 102  
 Log-in Review: [Signature]

Remarks: on JCL  
TKN analysis in duplicate  
RS: 48891829  
4/12  
15-15-14



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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 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

George Segura  
 Big Sky Dairy  
 17800 Stern Drive  
 P.O. Box 10  
 Mesquite, NM, 88048

Report Date: June 9, 2014

Work Order: 14052736



DP: 833  
 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
364135	833-9	water	2014-05-27	13:19	2014-05-27
364136	833-8	water	2014-05-27	12:18	2014-05-27
364137	833-2	water	2014-05-27	11:02	2014-05-27

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.

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.*

Dr. Blair Leftwich, Director  
 Dr. Michael Abel, Project Manager



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## Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2014-05-27 and assigned to work order 14052736. Samples for work order 14052736 were received intact at a temperature of 1.0 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	94972	2014-05-27 at 19:10	112331	2014-05-27 at 19:10
NO3 (IC)	E 300.0	94972	2014-05-27 at 19:10	112331	2014-05-27 at 19:10
TDS	SM 2540C	95042	2014-05-29 at 10:50	112421	2014-05-30 at 13:11
TKN	SM 4500-NH3 B,C	95219	2014-06-06 at 16:50	112618	2014-06-06 at 16:52

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 14052736 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: 364135 - 833-9**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112331 Date Analyzed: 2014-05-27 Analyzed By: JR  
 Prep Batch: 94972 Sample Preparation: 2014-05-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>868</b>	<b>868</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364135 - 833-9**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112331 Date Analyzed: 2014-05-27 Analyzed By: JR  
 Prep Batch: 94972 Sample Preparation: 2014-05-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>85.0</b>	<b>85.0</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 364135 - 833-9**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112421 Date Analyzed: 2014-05-30 Analyzed By: MC  
 Prep Batch: 95042 Sample Preparation: 2014-05-29 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	<b>3790</b>	<b>3790</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364135 - 833-9**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112618 Date Analyzed: 2014-06-06 Analyzed By: RR  
 Prep Batch: 95219 Sample Preparation: 2014-06-06 Prepared By: RR

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J, Qs	2	<b>6.30</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364136 - 833-8**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112331                              Date Analyzed: 2014-05-27                      Analyzed By: JR  
 Prep Batch: 94972                              Sample Preparation: 2014-05-27                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>772</b>	<b>772</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364136 - 833-8**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112331                              Date Analyzed: 2014-05-27                      Analyzed By: JR  
 Prep Batch: 94972                              Sample Preparation: 2014-05-27                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>91.5</b>	<b>91.5</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 364136 - 833-8**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 112421                              Date Analyzed: 2014-05-30                      Analyzed By: MC  
 Prep Batch: 95042                              Sample Preparation: 2014-05-29                      Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>3030</b>	<b>3030</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364136 - 833-8**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112618 Date Analyzed: 2014-06-06 Analyzed By: RR  
 Prep Batch: 95219 Sample Preparation: 2014-06-06 Prepared By: RR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J,Qs	2	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364137 - 833-2**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112331 Date Analyzed: 2014-05-27 Analyzed By: JR  
 Prep Batch: 94972 Sample Preparation: 2014-05-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>563</b>	<b>563</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364137 - 833-2**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112331 Date Analyzed: 2014-05-27 Analyzed By: JR  
 Prep Batch: 94972 Sample Preparation: 2014-05-27 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	<b>27.0</b>	<b>27.0</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364137 - 833-2**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112421 Date Analyzed: 2014-05-30 Analyzed By: MC  
 Prep Batch: 95042 Sample Preparation: 2014-05-29 Prepared By: MC

*continued . . .*

sample 364137 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2140</b>	<b>2140</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364137 - 833-2**

Laboratory: Lubbock  
Analysis: TKN  
QC Batch: 112618  
Prep Batch: 95219

Analytical Method: SM 4500-NH3 B,C  
Date Analyzed: 2014-06-06  
Sample Preparation: 2014-06-06

Prep Method: N/A  
Analyzed By: RR  
Prepared By: RR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J,Qs	2	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112331  
Prep Batch: 94972Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112331  
Prep Batch: 94972Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112421  
Prep Batch: 95042Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-29Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112618  
Prep Batch: 95219Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: RR  
Prepared By: RR

Report Date: June 9, 2014

Work Order: 14052736  
Big Sky Dairy

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17800 Stern Drive, Mesquite, NM 88048

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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# Duplicates

Duplicate (1) Duplicated Sample: 364135

QC Batch: 112421  
Prep Batch: 95042

Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-29

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3880	3790	mg/L	1	2	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112331  
Prep Batch: 94972Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.5	mg/L	1	25.0	<0.0238	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.2	mg/L	1	25.0	<0.0238	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: 112331  
Prep Batch: 94972Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.83	mg/L	1	5.00	<0.0374	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.76	mg/L	1	5.00	<0.0374	95	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: 112421  
Prep Batch: 95042Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-29Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	992	mg/L	1	1000	<2.50	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							
Total Dissolved Solids		1	990	mg/L	1	1000	<2.50	99	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: 112618  
Prep Batch: 95219

Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06

Analyzed By: RR  
Prepared By: RR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	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							
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	85 - 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: 364337

QC Batch: 112618  
Prep Batch: 95219

Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06

Analyzed By: RR  
Prepared By: RR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N	Qs	2	46.2	mg/L	1	50.0	36.4	20	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
Total Kjeldahl Nitrogen - N	Qs	2	49.0	mg/L	1	50.0	36.4	25	80 - 120	6	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: 112331

Date Analyzed: 2014-05-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-27

### Standard (CCV-1)

QC Batch: 112331

Date Analyzed: 2014-05-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.81	96	90 - 110	2014-05-27

### Standard (CCV-2)

QC Batch: 112331

Date Analyzed: 2014-05-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-05-27

### Standard (CCV-2)

QC Batch: 112331

Date Analyzed: 2014-05-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.84	97	90 - 110	2014-05-27

**Standard (ICV-1)**

QC Batch: 112618

Date Analyzed: 2014-06-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.76	95	85 - 115	2014-06-06

**Standard (CCV-1)**

QC Batch: 112618

Date Analyzed: 2014-06-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.76	95	85 - 115	2014-06-06

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.



14052736

6701 Aberdeen, Ste. 3  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

155 McCutcheon, Ste. H El  
Paso, TX 79832  
Tel (915) 585-3443  
Fax (915) 585-4944

Page 1 of 1  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
LAB Order ID # 14052736

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): George Segura 575-233-3620  
 Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048  
 Project #: 441485  
 Project Name: Big Sky Dairy  
 Project Location (including state):  
 Big Sky Dairy, 17800 Stern Drive, Mesquite, NM  
 Sampler Signature: *JWS*

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
344135	833-9	1		X				X	X	X	X	5-27-14	13:19
135	833-9	1		X				X	X	X	X	5-27-14	13:19
134	833-9 B	1		X				X	X	X	X	12:18	
1	833-9 B	1		X				X	X	X	X	12:18	
137	833-9	1		X				X	X	X	X	11:02	
138	833-9	1		X				X	X	X	X	11:02	

Relinquished By: *JWS* Date: 5-27-14 Time: 13:37  
 Received By: *D. H. H.* Date: 5-27-14 Time: 13:37  
 Relinquished By: *D. H. H.* Date: 5-27-14 Time: 16:30  
 Received at Laboratory By: *TA* Date: 5/28/14 Time: 9:15

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
MTBE 8021B/602	BTEX 8021B/602				X	X	X	X	X		
					X	X	X	X	X		
					X	X	X	X	X		
					X	X	X	X	X		

Remarks: *ICE AS: 4889187*  
*check in*  
 Lab Use Only  
 Intact  / N  
 Headspace Y / N/A  
 Temp *12-11-11:00*  
 Log-in Review *[Signature]*  
 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

Bruce Bonestroo  
 River Valley Dairy, LLC  
 1400 La Chuga Rd., Mesquite  
 P.O. Box 1929  
 Anthony, NM, 88021

Report Date: June 9, 2014

Work Order: 14052328



DP: 167  
 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
363932	167-01A	water	2014-05-23	10:07	2014-05-23
363933	167-03	water	2014-05-23	09:00	2014-05-23
363934	167-05	water	2014-05-23	10:47	2014-05-23
363935	167-07	water	2014-05-23	09:24	2014-05-23
363936	167-09	water	2014-05-23	11:37	2014-05-23
363937	167 Lagoon	water	2014-05-23	09:50	2014-05-23

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.

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.*

*Michael Abel*

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Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2014-05-23 and assigned to work order 14052328. Samples for work order 14052328 were received intact at a temperature of 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	94936	2014-05-23 at 18:06	112287	2014-05-23 at 18:06
NO3 (IC)	E 300.0	94936	2014-05-23 at 18:06	112287	2014-05-23 at 18:06
TDS	SM 2540C	94957	2014-05-27 at 13:56	112315	2014-05-27 at 13:56
TDS	SM 2540C	95042	2014-05-29 at 10:50	112421	2014-05-30 at 13:11
TKN	SM 4500-NH3 B,C	95140	2014-06-04 at 10:00	112528	2014-06-04 at 15:15
TKN	SM 4500-NH3 B,C	95219	2014-06-06 at 16:50	112618	2014-06-06 at 16:52

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 14052328 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: 363932 - 167-01A**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112287 Date Analyzed: 2014-05-23 Analyzed By: JR  
 Prep Batch: 94936 Sample Preparation: 2014-05-23 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>666</b>	<b>666</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363932 - 167-01A**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112287 Date Analyzed: 2014-05-23 Analyzed By: JR  
 Prep Batch: 94936 Sample Preparation: 2014-05-23 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	<b>1.59</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363932 - 167-01A**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112315 Date Analyzed: 2014-05-27 Analyzed By: MC  
 Prep Batch: 94957 Sample Preparation: 2014-05-27 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	<b>2860</b>	<b>2860</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363932 - 167-01A**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112528 Date Analyzed: 2014-06-04 Analyzed By: CF  
 Prep Batch: 95140 Sample Preparation: 2014-06-04 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	J	2	<b>2.80</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363933 - 167-03**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112287                              Date Analyzed: 2014-05-23                      Analyzed By: JR  
 Prep Batch: 94936                              Sample Preparation: 2014-05-23                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>440</b>	<b>440</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363933 - 167-03**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 112287                              Date Analyzed: 2014-05-23                              Analyzed By: JR  
 Prep Batch: 94936                              Sample Preparation: 2014-05-23                              Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>16.6</b>	<b>16.6</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363933 - 167-03**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 112315                              Date Analyzed: 2014-05-27                              Analyzed By: MC  
 Prep Batch: 94957                              Sample Preparation: 2014-05-27                              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	<b>2200</b>	<b>2200</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363933 - 167-03**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112528 Date Analyzed: 2014-06-04 Analyzed By: CF  
 Prep Batch: 95140 Sample Preparation: 2014-06-04 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.80</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363934 - 167-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112287 Date Analyzed: 2014-05-23 Analyzed By: JR  
 Prep Batch: 94936 Sample Preparation: 2014-05-23 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>764</b>	<b>764</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363934 - 167-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112287 Date Analyzed: 2014-05-23 Analyzed By: JR  
 Prep Batch: 94936 Sample Preparation: 2014-05-23 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>3.62</b>	<b>3.62</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363934 - 167-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112315 Date Analyzed: 2014-05-27 Analyzed By: MC  
 Prep Batch: 94957 Sample Preparation: 2014-05-27 Prepared By: MC

*continued . . .*

*sample 363934 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>3010</b>	<b>3010</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363934 - 167-05**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112528

Prep Batch: 95140

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-06-04

Sample Preparation: 2014-06-04

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	<b>3.50</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363935 - 167-07**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112287

Prep Batch: 94936

Analytical Method: E 300.0

Date Analyzed: 2014-05-23

Sample Preparation: 2014-05-23

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)
Chloride		1	<b>209</b>	<b>209</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 363935 - 167-07**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112287

Prep Batch: 94936

Analytical Method: E 300.0

Date Analyzed: 2014-05-23

Sample Preparation: 2014-05-23

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)
Nitrate-N	u	1	<0.187	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363935 - 167-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112315 Date Analyzed: 2014-05-27 Analyzed By: MC  
 Prep Batch: 94957 Sample Preparation: 2014-05-27 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	<b>1490</b>	<b>1490</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363935 - 167-07**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112528 Date Analyzed: 2014-06-04 Analyzed By: CF  
 Prep Batch: 95140 Sample Preparation: 2014-06-04 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363936 - 167-09**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112287 Date Analyzed: 2014-05-23 Analyzed By: JR  
 Prep Batch: 94936 Sample Preparation: 2014-05-23 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>721</b>	<b>721</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363936 - 167-09**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112287 Date Analyzed: 2014-05-23 Analyzed By: JR  
 Prep Batch: 94936 Sample Preparation: 2014-05-23 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	<b>10.1</b>	<b>10.1</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363936 - 167-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112315 Date Analyzed: 2014-05-27 Analyzed By: MC  
 Prep Batch: 94957 Sample Preparation: 2014-05-27 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	<b>2800</b>	<b>2800</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363936 - 167-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112528 Date Analyzed: 2014-06-04 Analyzed By: CF  
 Prep Batch: 95140 Sample Preparation: 2014-06-04 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	<b>3.50</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363937 - 167 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112287 Date Analyzed: 2014-05-23 Analyzed By: JR  
 Prep Batch: 94936 Sample Preparation: 2014-05-23 Prepared By: JR

*continued ...*

*sample 363937 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>1140</b>	<b>1140</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363937 - 167 Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112287 Date Analyzed: 2014-05-23 Analyzed By: JR  
 Prep Batch: 94936 Sample Preparation: 2014-05-23 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	<b>2.27</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363937 - 167 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112421 Date Analyzed: 2014-05-30 Analyzed By: MC  
 Prep Batch: 95042 Sample Preparation: 2014-05-29 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	<b>4850</b>	<b>4850</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363937 - 167 Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112618 Date Analyzed: 2014-06-06 Analyzed By: RR  
 Prep Batch: 95219 Sample Preparation: 2014-06-06 Prepared By: RR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	qs	2	<b>56.7</b>	<b>56.7</b>	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112287  
Prep Batch: 94936Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112287  
Prep Batch: 94936Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112315  
Prep Batch: 94957Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112421  
Prep Batch: 95042Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-29Analyzed By: MC  
Prepared By: MC

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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

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**Method Blank (1)**QC Batch: 112528  
Prep Batch: 95140Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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**Method Blank (1)**QC Batch: 112618  
Prep Batch: 95219Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: RR  
Prepared By: RR

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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## Duplicates

**Duplicate (1)** Duplicated Sample: 363801QC Batch: 112315  
Prep Batch: 94957Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1080	1160	mg/L	1	7	10

**Duplicate (1)** Duplicated Sample: 364135QC Batch: 112421  
Prep Batch: 95042Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-29Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3880	3790	mg/L	1	2	10



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112287  
Prep Batch: 94936Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	24.0	mg/L	1	25.0	<0.0238	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	24.1	mg/L	1	25.0	<0.0238	96	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: 112287  
Prep Batch: 94936Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.74	mg/L	1	5.00	<0.0374	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.77	mg/L	1	5.00	<0.0374	95	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: 112315  
Prep Batch: 94957Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	1000	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	998	mg/L	1	1000	<2.50	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: 112421  
Prep Batch: 95042

Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-29

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	992	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	990	mg/L	1	1000	<2.50	99	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: 112528  
Prep Batch: 95140

Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04

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	44.1	mg/L	1	50.0	<1.80	88	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.80	85	85 - 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: 112618  
Prep Batch: 95219

Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06

Analyzed By: RR  
Prepared By: RR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	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 Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	85 - 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: 363935QC Batch: 112287  
Prep Batch: 94936Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1620	mg/L	55.6	1390	209	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1580	mg/L	55.6	1390	209	99	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: 363935QC Batch: 112287  
Prep Batch: 94936Date Analyzed: 2014-05-23  
QC Preparation: 2014-05-23Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	273	mg/L	55.6	278	<2.08	98	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	265	mg/L	55.6	278	<2.08	95	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: 363936QC Batch: 112528  
Prep Batch: 95140Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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: 364337

QC Batch: 112618  
Prep Batch: 95219

Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06

Analyzed By: RR  
Prepared By: RR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N	Qs	2	46.2	mg/L	1	50.0	36.4	20	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							
Total Kjeldahl Nitrogen - N	Qs	2	49.0	mg/L	1	50.0	36.4	25	80 - 120	6	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: 112287

Date Analyzed: 2014-05-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-05-23

### Standard (CCV-1)

QC Batch: 112287

Date Analyzed: 2014-05-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-05-23

### Standard (CCV-2)

QC Batch: 112287

Date Analyzed: 2014-05-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-05-23

### Standard (CCV-2)

QC Batch: 112287

Date Analyzed: 2014-05-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-05-23

**Standard (CCV-3)**

QC Batch: 112287

Date Analyzed: 2014-05-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-05-23

**Standard (CCV-3)**

QC Batch: 112287

Date Analyzed: 2014-05-23

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.92	98	90 - 110	2014-05-23

**Standard (ICV-1)**

QC Batch: 112528

Date Analyzed: 2014-06-04

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	mg/L	5.00	4.34	87	85 - 115	2014-06-04

**Standard (CCV-1)**

QC Batch: 112528

Date Analyzed: 2014-06-04

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	mg/L	5.00	5.04	101	85 - 115	2014-06-04

**Standard (ICV-1)**

QC Batch: 112618

Date Analyzed: 2014-06-06

Analyzed By: RR

Report Date: June 9, 2014

Work Order: 14052328  
River Valley Dairy, LLC

Page Number: 23 of 25  
1400 La Chuga Rd., Mesquite, NM

---

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.76	95	85 - 115	2014-06-06

---

**Standard (CCV-1)**

QC Batch: 112618

Date Analyzed: 2014-06-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.76	95	85 - 115	2014-06-06

---



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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	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

105 Woodmonte, Ste. 11  
 Lubbock, TX 79424  
 Tel (806) 794-1286  
 Fax (806) 794-1298

Company Name: D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln, El Paso TX 79907  
 Contact Person: Victor Ayala  
 E-mail: vajala@dhpump.com

Phone #: 915-859-8150  
 Cell #: 915-859-8150  
 Fax #: 915-859-8150  
 E-mail: vajala@dhpump.com

Project #: 88021  
 Project Name: River Valley Dairy, LLC  
 Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM  
 Sampler Signature: [Signature]

Project #: 88021  
 Project Name: Bruce Bonestroo 575-233-2061  
 Project Location (including state): River Valley Dairy, PO Box 1929, Anthony, NM 88021  
 Sampler Signature: [Signature]

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
167-01		1		X										
167-01		1		X										
167-01A		1	500	X				X					5-23-14	10:07
167-01A		1	250	X				X						10:07
167-02		1		X				X						
167-02		1		X				X						
167-03		1	500	X				X						9:00
167-03		1	250	X				X						9:00
167-04		1		X				X						
167-04		1		X				X						
167-05		1	500	X				X						10:47
167-05		1	250	X				X						10:47
167-06		1		X				X						
167-06		1		X				X						
167-07		1	500	X				X						9:24
167-07		1	250	X				X						9:24

Relinquished By: [Signature] Date: 5-23-14 Time: 12:30  
 Received By: [Signature] Date: 5-23-14 Time: 02:28  
 Relinquished By: [Signature] Date: 5-23-14 Time: 16:30  
 Received at Laboratory By: [Signature] Date: 5-23-14 Time: 16:30

Page 2 of 2  
**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**  
 LAB Order ID # 14052328

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	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	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  
 Initial Y/N  
 Headspace Y/N  
 Temp 4/3/1  
 Log-in Review  
 Dry Weight Basis Required  
 TRRP Report Required

# TraceAnalysis, Inc.

Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

Company Name: D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln, El Paso TX 79907  
Contact Person: Victor Ayala  
E-mail: vajala@dhpump.com

Phone #: 915-859-8150  
Cell #:   
Fax #:   
E-mail:

Project Name: Bruce Bonestroo 575-233-2061  
Project Location (including state):  
River Valley Dairy, PO Box 1929, Anthony, NM 88021

Project Name: River Valley Dairy, LLC  
Sampler Signature: [Signature]

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
167-08		1		X				X						
167-09		1	500	X				X					5-23-13	11:37
167-09		1	250	X				X					5-23-13	11:37
167-10	167 Lagoon	1	500	X				X					5-23-14	9:150
167-10	167 Lagoon	1	250	X				X					5-23-14	9:150

Page 2 of 2  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

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	

Remarks:  
Lab Use Only  
Intact Y / N  
Headspace Y / N  
Temp 5/13 C  
Log-in Review OK  
Dry Weight Basis Required  
TRRP Report Required

Relinquished By: [Signature] Date: 5-23-13 Time: 12:30  
Received at Laboratory By: [Signature] Date: 5-23-14 Time: 12:38  
Relinquished By: [Signature] Date: 5-23-14 Time: 6:30  
Received at Laboratory By: [Signature] Date: 5-23-14 Time: 12:38

CAR 7 EN

**TraceAnalysis, Inc.**  
 Lubbock TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

Company Name: \_\_\_\_\_  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_

D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln, El Paso TX 79907  
 Contact Person: \_\_\_\_\_  
 Victor Ayala  
 E-mail: vajala@dhpump.com

Project #: \_\_\_\_\_  
 Project Name: Bruce Bonestroo 575-233-2061  
 River Valley Dairy, PO Box 1929, Anthony, NM 88021  
 Project Location (including state):  
 River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM  
 Sampler Signature: gms

LAB #	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
467-01		1		X				X						
467-01		1		X				X						
363-932-1	167-01A	1	500	X				X				5-23-14	10:07	
↓ -2	167-01A	1	250	X				X					10:07	
467-02		1		X				X						
467-02		1		X				X						
933-1	167-03	1	500	X				X					9:00	
↓ -2	167-03	1	250	X				X					9:00	
467-04		1		X				X						
467-04		1		X				X						
934-1	167-05	1	500	X				X					10:47	
↓ -2	167-05	1	250	X				X					10:47	
467-06		1		X				X						
467-06		1		X				X						
935-1	167-07	1	500	X				X					9:24	
↓ -2	167-07	1	250	X				X					9:24	

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

Turn Around Time

Hold

Lab Use Only  
 Intact Y/N  
 Headspace Y/N  
 Temp 4/3/2/1/1/1  
 Log-in Review 4/3/2/1/1/1

Received By: [Signature] Date: 5-23-14 Time: 12:30  
 Received at Laboratory By: [Signature] Date: 5-23-14 Time: 12:38

Relinquished By: [Signature] Date: 5-23-14 Time: 16:30  
 Relinquished By: [Signature] Date: 5-23-14 Time: 9:20

Remarks: LS 40091020

# TraceAnalysis, Inc.

Company Name: TraceAnalysis, Inc. Phone #: 915-859-8150  
 D&H Petroleum & Environmental Services Cell #:                       
 Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907 Fax #:                       
 Contact Person:                      E-mail: vajala@dhpump.com

Project Name: River Valley Dairy, LLC  
 Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., 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	TIME	
167-00			1		X					X							
167-09			1	500	X					X					5-23-13	11:37	
167-09			1	250	X					X					5-23-13	11:37	
167 Lagoon			1	500	X					X					5-23-14	9:50	
167 Lagoon			1	250	X					X					5-23-14	9:50	

Relinquished By: *[Signature]* Date: 5-23-13 Time: 12:30  
 Received By: *[Signature]* Date: 5-23-14 Time: 12:38  
 Relinquished By: *[Signature]* Date: 5-23-14 Time: 6:30  
 Received at Laboratory By: *[Signature]* Date: 5-23-14 Time: 9:20

**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	X																
TKN SM 4500 NORG C	X																
Chloride EPA 300	X																
Total Dissolved Solids SM 2540 C MOD	X																

Lab Use Only  
 Intact  / N  
 Headspace Y / N  
 Temp 4/3 C  
 Log-in Review                     

Remarks:                       
 Dry Weight Basis Required                       
 TRRP Report Required                     

103  
 4:31/4.2  
 CAR 7 Fu  
 LS 48691829



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: June 9, 2014

Work Order: 14052737



DP: 167  
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
364138	167-08	water	2014-05-27	10:01	2014-05-27

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.

This report consists of a total of 16 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  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2014-05-27 and assigned to work order 14052737. Samples for work order 14052737 were received intact at a temperature of 1.0 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	94972	2014-05-27 at 19:10	112331	2014-05-27 at 19:10
NO3 (IC)	E 300.0	94972	2014-05-27 at 19:10	112331	2014-05-27 at 19:10
TDS	SM 2540C	95042	2014-05-29 at 10:50	112421	2014-05-30 at 13:11
TKN	SM 4500-NH3 B,C	95219	2014-06-06 at 16:50	112618	2014-06-06 at 16:52

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 14052737 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: 364138 - 167-08**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112331 Date Analyzed: 2014-05-27 Analyzed By: JR  
 Prep Batch: 94972 Sample Preparation: 2014-05-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>777</b>	<b>777</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364138 - 167-08**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112331 Date Analyzed: 2014-05-27 Analyzed By: JR  
 Prep Batch: 94972 Sample Preparation: 2014-05-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1	<0.187	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364138 - 167-08**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112421 Date Analyzed: 2014-05-30 Analyzed By: MC  
 Prep Batch: 95042 Sample Preparation: 2014-05-29 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	<b>2920</b>	<b>2920</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364138 - 167-08**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112618 Date Analyzed: 2014-06-06 Analyzed By: RR  
 Prep Batch: 95219 Sample Preparation: 2014-06-06 Prepared By: RR

Report Date: June 9, 2014

Work Order: 14052737  
River Valley Dairy, LLC

Page Number: 5 of 16  
1400 La Chuga Rd., Mesquite, NM

---

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J,Qs	2	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

---

## Method Blanks

### Method Blank (1)

QC Batch: 112331  
Prep Batch: 94972Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112331  
Prep Batch: 94972Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112421  
Prep Batch: 95042Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-29Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112618  
Prep Batch: 95219Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: RR  
Prepared By: RR

Report Date: June 9, 2014

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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	<1.80	mg/L	1.8

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 364135

QC Batch: 112421  
 Prep Batch: 95042

Date Analyzed: 2014-05-30  
 QC Preparation: 2014-05-29

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3880	3790	mg/L	1	2	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112331  
Prep Batch: 94972Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	24.5	mg/L	1	25.0	<0.0238	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	24.2	mg/L	1	25.0	<0.0238	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: 112331  
Prep Batch: 94972Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.83	mg/L	1	5.00	<0.0374	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.76	mg/L	1	5.00	<0.0374	95	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: 112421  
Prep Batch: 95042Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-29Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	992	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	990	mg/L	1	1000	<2.50	99	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: 112618  
 Prep Batch: 95219

Date Analyzed: 2014-06-06  
 QC Preparation: 2014-06-06

Analyzed By: RR  
 Prepared By: RR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	85 - 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: 364137QC Batch: 112331  
Prep Batch: 94972Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2030	mg/L	55.6	1390	563	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	2010	mg/L	55.6	1390	563	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: 364137QC Batch: 112331  
Prep Batch: 94972Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	298	mg/L	55.6	278	27	97	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	295	mg/L	55.6	278	27	96	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: 364337QC Batch: 112618  
Prep Batch: 95219Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: RR  
Prepared By: RR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		Qs 2	46.2	mg/L	1	50.0	36.4	20	80 - 120

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	qs	2	49.0	mg/L	1	50.0	36.4	25	80 - 120	6	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: 112331

Date Analyzed: 2014-05-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-05-27

### Standard (CCV-2)

QC Batch: 112331

Date Analyzed: 2014-05-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.84	97	90 - 110	2014-05-27

### Standard (CCV-3)

QC Batch: 112331

Date Analyzed: 2014-05-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-05-27

### Standard (CCV-3)

QC Batch: 112331

Date Analyzed: 2014-05-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.87	97	90 - 110	2014-05-27

**Standard (ICV-1)**

QC Batch: 112618

Date Analyzed: 2014-06-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.76	95	85 - 115	2014-06-06

**Standard (CCV-1)**

QC Batch: 112618

Date Analyzed: 2014-06-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.76	95	85 - 115	2014-06-06

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Company Name: TraceAnalysis, Inc.  
Phone #: 915-859-8150  
Cell #: \_\_\_\_\_  
Fax #: \_\_\_\_\_  
E-mail: vajala@dhpump.com

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):  
River Valley Dairy, PO Box 1929, Anthony, NM 88021

Project Name: River Valley Dairy, LLC  
Project #: \_\_\_\_\_

Project Location (including state):  
River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

Sampler Signature: JVG

LAB #	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
364/88	167-08	1	500	X			X	X	X	X	X	5-27-14	10:01
1-2	167-08	1	250	X			X	X	X	X	X	5-27-14	10:01
	167-09	1		X			X	X	X	X	X		
	167-09	1		X			X	X	X	X	X		
	167 Lagoon	1		X			X	X	X	X	X		
	167 Lagoon	1		X			X	X	X	X	X		

Relinquished By: July Date: 5-27-14 Time: 13:57

Relinquished By: Daphne Date: 5-27-14 Time: 16:30

Received By: DPH Date: 5-27-14 Time: 18:37

Received at Laboratory By: ASL Date: 5/28/14 Time: 9:15

Lab Use Only  
 Intact  Y  N  
 Headspace  Y  N/A  
 Temp 121.11°C  
 Log-in Review  Y  N

Remarks: ICE  
CARRY IN  
LS: 48891827

Dry Weight Basis Required   
 TRRP Report Required

5-27-14

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 14052737

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	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Turn Around Time

Hold



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

George Segura  
 Big Sky Dairy  
 17800 Stern Drive  
 P.O. Box 10  
 Mesquite, NM, 88048

Report Date: June 9, 2014

Work Order: 14052928



DP: 833  
 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
364336	833 Lagoon	water	2014-05-29	11:03	2014-05-29
364337	833-4	water	2014-05-29	09:20	2014-05-29
364338	833-7	water	2014-05-29	12:23	2014-05-29
364339	833-6	water	2014-05-29	14:18	2014-05-29
364340	833-5	water	2014-05-29	10:53	2014-05-29
364341	833-10	water	2014-05-29	13:31	2014-05-29

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.

This report consists of a total of 24 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.*



*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2014-05-29 and assigned to work order 14052928. Samples for work order 14052928 were received intact at a temperature of 1.0 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	95036	2014-05-29 at 18:53	112416	2014-05-29 at 18:53
NO3 (IC)	E 300.0	95036	2014-05-29 at 18:53	112416	2014-05-29 at 18:53
TDS	SM 2540C	95089	2014-06-02 at 12:20	112475	2014-06-02 at 12:20
TKN	SM 4500-NH3 B,C	95219	2014-06-06 at 16:50	112618	2014-06-06 at 16:52
TKN	SM 4500-NH3 B,C	95251	2014-06-09 at 10:00	112659	2014-06-09 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 14052928 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: 364336 - 833 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>845</b>	<b>845</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364336 - 833 Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 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	<b>4.53</b>	<b>4.53</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364336 - 833 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 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	<b>5710</b>	<b>5710</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364336 - 833 Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112659 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95251 Sample Preparation: 2014-06-09 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	<b>357</b>	<b>357</b>	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364337 - 833-4**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112416                              Date Analyzed: 2014-05-29                      Analyzed By: JR  
 Prep Batch: 95036                              Sample Preparation: 2014-05-29                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>780</b>	<b>780</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364337 - 833-4**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112416                              Date Analyzed: 2014-05-29                      Analyzed By: JR  
 Prep Batch: 95036                              Sample Preparation: 2014-05-29                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>23.5</b>	<b>23.5</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364337 - 833-4**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 112475                              Date Analyzed: 2014-06-02                      Analyzed By: MC  
 Prep Batch: 95089                              Sample Preparation: 2014-06-02                      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	<b>2670</b>	<b>2670</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364337 - 833-4**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112618 Date Analyzed: 2014-06-06 Analyzed By: RR  
 Prep Batch: 95219 Sample Preparation: 2014-06-06 Prepared By: RR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	qs	2	<b>36.4</b>	<b>36.4</b>	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364338 - 833-7**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1380</b>	<b>1380</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364338 - 833-7**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>87.0</b>	<b>87.0</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 364338 - 833-7**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 Prepared By: MC

*continued . . .*

*sample 364338 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>4760</b>	<b>4760</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364338 - 833-7**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112659

Prep Batch: 95251

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-06-09

Sample Preparation: 2014-06-09

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	<b>4.90</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364339 - 833-6**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112416

Prep Batch: 95036

Analytical Method: E 300.0

Date Analyzed: 2014-05-29

Sample Preparation: 2014-05-29

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	<b>760</b>	<b>760</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364339 - 833-6**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112416

Prep Batch: 95036

Analytical Method: E 300.0

Date Analyzed: 2014-05-29

Sample Preparation: 2014-05-29

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	<b>26.5</b>	<b>26.5</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364339 - 833-6**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 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	<b>2460</b>	<b>2460</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364339 - 833-6**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112659 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95251 Sample Preparation: 2014-06-09 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	<b>3.50</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364340 - 833-5**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>1070</b>	<b>1070</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364340 - 833-5**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>15.6</b>	<b>15.6</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364340 - 833-5**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 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	<b>3130</b>	<b>3130</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364340 - 833-5**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112659 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95251 Sample Preparation: 2014-06-09 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	J	2	<b>4.20</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364341 - 833-10**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

*continued ...*

*sample 364341 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>667</b>	<b>667</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364341 - 833-10**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 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	<b>3.20</b>	<b>3.20</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364341 - 833-10**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 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	<b>2670</b>	<b>2670</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364341 - 833-10**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112659 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95251 Sample Preparation: 2014-06-09 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	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112475  
Prep Batch: 95089Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112618  
Prep Batch: 95219Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: RR  
Prepared By: RR

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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**Method Blank (1)**

QC Batch: 112659  
Prep Batch: 95251

Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09

Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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# Duplicates

Duplicate (1) Duplicated Sample: 364337

QC Batch: 112475  
Prep Batch: 95089

Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2660	2670	mg/L	1	0	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	24.3	mg/L	1	25.0	<0.0238	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	24.3	mg/L	1	25.0	<0.0238	97	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: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.82	mg/L	1	5.00	<0.0374	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.81	mg/L	1	5.00	<0.0374	96	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: 112475  
Prep Batch: 95089Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	995	mg/L	1	1000	<2.50	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		Rec.		RPD Limit
			Result	Units			Result	Rec.	Limit	RPD	
Total Dissolved Solids		1	991	mg/L	1	1000	<2.50	99	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: 112618  
Prep Batch: 95219

Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06

Analyzed By: RR  
Prepared By: RR

Param	F	C	LCS		Dil.	Spike Amount	Matrix		Rec.	
			Result	Units			Result	Rec.	Limit	
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	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		Rec.		RPD Limit
			Result	Units			Result	Rec.	Limit	RPD	
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	85 - 115	5	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: 112659  
Prep Batch: 95251

Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix		Rec.	
			Result	Units			Result	Rec.	Limit	
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.80	85	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		Rec.		RPD Limit
			Result	Units			Result	Rec.	Limit	RPD	
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	85 - 115	6	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: 364341QC Batch: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2130	mg/L	55.6	1390	667	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
Chloride		1	2120	mg/L	55.6	1390	667	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: 364341QC Batch: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	270	mg/L	55.6	278	3.2	96	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	268	mg/L	55.6	278	3.2	95	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: 364337QC Batch: 112618  
Prep Batch: 95219Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: RR  
Prepared By: RR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		Qs 2	46.2	mg/L	1	50.0	36.4	20	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.		RPD	
			Result	Units			Result	Rec.	Limit	RPD	Limit	
Total Kjeldahl Nitrogen - N	qs	2	49.0	mg/L	1	50.0	36.4	25	80 - 120	6	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: 364406

QC Batch: 112659  
Prep Batch: 95251

Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix		Rec.	
			Result	Units			Result	Rec.	Limit	
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	4.2	84	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.		RPD	
			Result	Units			Result	Rec.	Limit	RPD	Limit	
Total Kjeldahl Nitrogen - N		2	51.8	mg/L	1	50.0	4.2	95	80 - 120	11	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: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-29

### Standard (CCV-1)

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.84	97	90 - 110	2014-05-29

### Standard (CCV-2)

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-05-29

### Standard (CCV-2)

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-05-29

**Standard (CCV-3)**

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-05-29

**Standard (CCV-3)**

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-05-29

**Standard (CCV-4)**

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-05-29

**Standard (CCV-4)**

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2014-05-29

**Standard (ICV-1)**

QC Batch: 112618

Date Analyzed: 2014-06-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.76	95	85 - 115	2014-06-06

**Standard (CCV-1)**

QC Batch: 112618

Date Analyzed: 2014-06-06

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.76	95	85 - 115	2014-06-06

**Standard (ICV-1)**

QC Batch: 112659

Date Analyzed: 2014-06-09

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	mg/L	5.00	4.62	92	85 - 115	2014-06-09

**Standard (CCV-1)**

QC Batch: 112659

Date Analyzed: 2014-06-09

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	mg/L	5.00	5.04	101	85 - 115	2014-06-09

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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	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

LAB #	Field Code	# Containers	Volume/Amount	MATRIX	PRESERVATIVE METHOD	DATE	SAMPLING TIME
833-1		1	500	WATER	HCl	5-29-14	11:03
833-1		1	250	AIR	H <sub>2</sub> SO <sub>4</sub>	5-29-14	11:03
833-2		1	500	SLUDGE	HNO <sub>3</sub>	5-29-14	9:20
833-2		1	500	SOIL	NaOH	5-29-14	9:20
833-2		1	500	AIR	ICE	5-29-14	12:23
833-2		1	500	WATER	NONE	5-29-14	14:18
833-2		1	500	SOIL	HCl	5-29-14	10:53
833-2		1	500	AIR	H <sub>2</sub> SO <sub>4</sub>	5-29-14	10:53
833-2		1	500	SLUDGE	HNO <sub>3</sub>	5-29-14	13:31
833-2		1	250	WATER	NaOH	5-29-14	13:31

LAB USE ONLY	Field Code	# Containers	Volume/Amount	MATRIX	PRESERVATIVE METHOD	DATE	SAMPLING TIME	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
	833-1	1	500	WATER	HCl	5-29-14	11:03							X	X	X	X		
	833-1	1	250	AIR	H <sub>2</sub> SO <sub>4</sub>	5-29-14	11:03							X	X	X	X		
	833-2	1	500	SLUDGE	HNO <sub>3</sub>	5-29-14	9:20							X	X	X	X		
	833-2	1	500	SOIL	NaOH	5-29-14	9:20							X	X	X	X		
	833-2	1	500	AIR	ICE	5-29-14	12:23							X	X	X	X		
	833-2	1	500	WATER	NONE	5-29-14	14:18							X	X	X	X		
	833-2	1	500	SOIL	HCl	5-29-14	10:53							X	X	X	X		
	833-2	1	500	AIR	H <sub>2</sub> SO <sub>4</sub>	5-29-14	10:53							X	X	X	X		
	833-2	1	500	SLUDGE	HNO <sub>3</sub>	5-29-14	13:31							X	X	X	X		
	833-2	1	250	WATER	NaOH	5-29-14	13:31							X	X	X	X		

Relinquished By: [Signature] Date: 5-29-14 Time: 14:36  
 Received By: MRC TRAP Date: 5-29-14 Time: 14:36  
 Relinquished By: [Signature] Date: 5/29/14 Time: 16:30  
 Received By: [Signature] Date: 5/29/14 Time: 14:36  
 Lab Use Only: Intact  / N Headspace Y / N Temp 10.1 / 10 Log-in Review DPH / 509  
 Remarks: on ice  
TRAP analysis in Lab  
103 No 9/203  
AS  
48891826  
 Dry Weight Basis Required  
 TRRP Report Required





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## 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: June 10, 2014

Work Order: 14053023



DP: 692  
Project Location: 1025 East OHara, Anthony, NM  
Project Name: Del Oro 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
364405	692-02	water	2014-05-30	12:15	2014-05-30
364406	692-04	water	2014-05-30	11:14	2014-05-30

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.

This report consists of a total of 16 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  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2014-05-30 and assigned to work order 14053023. Samples for work order 14053023 were received intact at a temperature of 1.0 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	95073	2014-05-30 at 16:51	112462	2014-05-30 at 16:51
NO3 (IC)	E 300.0	95073	2014-05-30 at 16:51	112462	2014-05-30 at 16:51
TDS	SM 2540C	95089	2014-06-02 at 12:20	112475	2014-06-02 at 12:20
TKN	SM 4500-NH3 B,C	95251	2014-06-09 at 10:00	112659	2014-06-09 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 14053023 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.

The temperature of the Cold Box for storing samples was between 6 and 15.0 degrees C between June 8th and June 9th, 2014. We do not believe this will affect your TKN results.

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: 364405 - 692-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112462 Date Analyzed: 2014-05-30 Analyzed By: JR  
 Prep Batch: 95073 Sample Preparation: 2014-05-30 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>906</b>	<b>906</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364405 - 692-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112462 Date Analyzed: 2014-05-30 Analyzed By: JR  
 Prep Batch: 95073 Sample Preparation: 2014-05-30 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>128</b>	<b>128</b>	<1.87	mg/L	50	1.87	0.5	0.0374

**Sample: 364405 - 692-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 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	<b>3370</b>	<b>3370</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364405 - 692-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112659 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95251 Sample Preparation: 2014-06-09 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	<b>4.20</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364406 - 692-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112462 Date Analyzed: 2014-05-30 Analyzed By: JR  
 Prep Batch: 95073 Sample Preparation: 2014-05-30 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>481</b>	<b>481</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364406 - 692-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112462 Date Analyzed: 2014-05-30 Analyzed By: JR  
 Prep Batch: 95073 Sample Preparation: 2014-05-30 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	<b>38.7</b>	<b>38.7</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364406 - 692-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 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	<b>2010</b>	<b>2010</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364406 - 692-04**

Report Date: June 10, 2014

Work Order: 14053023  
Del Oro Dairy

Page Number: 6 of 16  
1025 East OHara, Anthony, NM

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Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-06-09	Analyzed By:	CF
QC Batch:	112659	Sample Preparation:	2014-06-09	Prepared By:	CF
Prep Batch:	95251				

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>4.20</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

---

## Method Blanks

### Method Blank (1)

QC Batch: 112462  
Prep Batch: 95073Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-30Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112462  
Prep Batch: 95073Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-30Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112475  
Prep Batch: 95089Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112659  
Prep Batch: 95251Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: CF  
Prepared By: CF

Report Date: June 10, 2014

Work Order: 14053023  
Del Oro Dairy

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1025 East OHara, Anthony, NM

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---



# Duplicates

**Duplicate (1)**    Duplicated Sample: 364337

QC Batch: 112475  
Prep Batch: 95089

Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2660	2670	mg/L	1	0	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112462  
Prep Batch: 95073Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-30Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	25.1	mg/L	1	25.0	<0.0238	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			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	25.1	mg/L	1	25.0	<0.0238	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: 112462  
Prep Batch: 95073Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-30Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.97	mg/L	1	5.00	<0.0374	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.96	mg/L	1	5.00	<0.0374	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: 112475  
Prep Batch: 95089Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	995	mg/L	1	1000	<2.50	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	991	mg/L	1	1000	<2.50	99	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: 112659  
Prep Batch: 95251

Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09

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	42.7	mg/L	1	50.0	<1.80	85	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							
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	85 - 115	6	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: 364406

QC Batch: 112659  
Prep Batch: 95251

Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09

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	46.2	mg/L	1	50.0	4.2	84	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
Total Kjeldahl Nitrogen - N		2	51.8	mg/L	1	50.0	4.2	95	80 - 120	11	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: 112462

Date Analyzed: 2014-05-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-05-30

### Standard (CCV-1)

QC Batch: 112462

Date Analyzed: 2014-05-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.87	97	90 - 110	2014-05-30

### Standard (CCV-2)

QC Batch: 112462

Date Analyzed: 2014-05-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-05-30

### Standard (CCV-2)

QC Batch: 112462

Date Analyzed: 2014-05-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-05-30

**Standard (ICV-1)**

QC Batch: 112659

Date Analyzed: 2014-06-09

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	mg/L	5.00	4.62	92	85 - 115	2014-06-09

**Standard (CCV-1)**

QC Batch: 112659

Date Analyzed: 2014-06-09

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	mg/L	5.00	5.04	101	85 - 115	2014-06-09

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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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Phone #:

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1221 Tower Trail Ln, El Paso TX 79907

Fax #:

vajala@dhpump.com

E-mail:

Contact Person:

Victor Ayala

Invoice to (if different from above):

Del Oro Dairy, PO Box 1846, Anthony, TX 88021

Jerry Settles 575-882-4331

Project #:

441983

Project Name:

Del Oro Dairy

Project Location (including state):

Del Oro Dairy, 1025 East O'Hara, Anthony, NM

Sampler Signature:

*JWS*

LAB #	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
<del>692-01</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>692-01</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
364445	692-02	1	500	X	X	X	X	X	X	X	X	X	5-30-14	12:15
1-2	692-02	1	250	X	X	X	X	X	X	X	X	X	12:15	12:15
4M	692-04	1	500	X	X	X	X	X	X	X	X	X	11:14	11:14
1-2	692-04	1	250	X	X	X	X	X	X	X	X	X	11:14	11:14
<del>692-05</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
<del>692-05</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
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<del>692-05</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>
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<del>692-05</del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>	<del>          </del>

Relinquished By:

*JWS*

Date:

5-30-14 / 12:45

Received By:

*D7044* 5-30-14 12:45

Time:

12:45

Date:

5-30-14

Lab Use Only

Intact  / N

Remarks:

ICE

Headspace Y / N  /

Temp 12-1 / 11-10

Log-in Revison

Log-in Revision

Relinquished By:

*Amey* 5-30-14 16:30

Date:

5-30-14 16:30

Received at Laboratory By:

*Amey* 5-30-14 16:30

Time:

16:30

Date:

5-30-14

Dry Weight Basis Required

TRRP Report Required

LAB Order ID # 140 5023

Company Name: D&H Petroleum & Environmental Services  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
 Fax #: \_\_\_\_\_  
 E-mail: vajala@dhpump.com

Contact Person: Victor Ayala  
 Invoice to (if different from above): Jerry Settles 575-882-4331  
 Del Oro Dairy, PO Box 1846, Anthony, TX 88021  
 Project #: 441983  
 Project Name: Del Oro Dairy  
 Sampler Signature: Juv

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		TIME		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE		DATE	
<del>692-01</del>	<del>_____</del>	<del>1</del>	<del>500</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-01</del>	<del>_____</del>	<del>1</del>	<del>500</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-02</del>	<del>_____</del>	<del>1</del>	<del>250</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>1-2 692-02</del>	<del>_____</del>	<del>1</del>	<del>250</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>406 692-04</del>	<del>_____</del>	<del>1</del>	<del>500</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>1-2 692-04</del>	<del>_____</del>	<del>1</del>	<del>250</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-05</del>	<del>_____</del>	<del>1</del>	<del>_____</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-05</del>	<del>_____</del>	<del>1</del>	<del>_____</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-06</del>	<del>_____</del>	<del>1</del>	<del>_____</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-07</del>	<del>_____</del>	<del>1</del>	<del>_____</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-07</del>	<del>_____</del>	<del>1</del>	<del>_____</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-08</del>	<del>_____</del>	<del>1</del>	<del>_____</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-08</del>	<del>_____</del>	<del>1</del>	<del>_____</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-09</del>	<del>_____</del>	<del>1</del>	<del>_____</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-09</del>	<del>_____</del>	<del>1</del>	<del>_____</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>
<del>692-09</del>	<del>_____</del>	<del>1</del>	<del>_____</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>_____</del>	<del>_____</del>

ANALYSIS REQUEST

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 \_\_\_\_\_

Relinquished By: Juv Date: 5-30-14 Time: 12:45  
 Relinquished By: Penny Date: 5-30-14 Time: 16:30

Received By: DJ & L Date: 5-30-14 Time: 12:45  
 Received at Laboratory By: Brenda TA Date: 6/1/14 Time: 9:20  
W. Old 4/1/14

Lab Use Only  
 Intact Y / N  
 Headspace Y / N NA  
 Temp 12-1 / 11-02  
 Log-in Review \_\_\_\_\_

Remarks: ICE  
LS 48891824  
4:13.5  
 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

Edward DeRuyter  
 Sunset Dairy  
 17900 Stern Drive  
 P.O. Box 10  
 Mesquite, NM, 88048

Report Date: June 10, 2014

Work Order: 14053024



DP: 257  
 Project Location: 17900 S. Stern Dr., Mesquite, NM  
 Project Name: Sunset 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
364407	257-01	water	2014-05-30	08:23	2014-05-30
364408	257-02	water	2014-05-30	10:20	2014-05-30
364409	257/260-01	water	2014-05-30	09:43	2014-05-30
364410	257 Lagoon	water	2014-05-30	08:40	2014-05-30

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.

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.*

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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QC Batch 112462 - Method Blank (1) . . . . .	10
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## Case Narrative

Samples for project Sunset Dairy were received by TraceAnalysis, Inc. on 2014-05-30 and assigned to work order 14053024. Samples for work order 14053024 were received intact at a temperature of 1.0 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	95073	2014-05-30 at 16:51	112462	2014-05-30 at 16:51
NO3 (IC)	E 300.0	95073	2014-05-30 at 16:51	112462	2014-05-30 at 16:51
TDS	SM 2540C	95109	2014-06-03 at 13:15	112495	2014-06-03 at 13:15
TKN	SM 4500-NH3 B,C	95253	2014-06-09 at 10:00	112660	2014-06-09 at 14:40

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 14053024 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.

The temperature of the Cold Box for storing samples was between 6 and 15.0 degrees C between June 8th and June 9th, 2014. We do not believe this will affect your TKN results.

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: 364407 - 257-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112462 Date Analyzed: 2014-05-30 Analyzed By: JR  
 Prep Batch: 95073 Sample Preparation: 2014-05-30 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>739</b>	<b>739</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364407 - 257-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112462 Date Analyzed: 2014-05-30 Analyzed By: JR  
 Prep Batch: 95073 Sample Preparation: 2014-05-30 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	<b>47.9</b>	<b>47.9</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364407 - 257-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112495 Date Analyzed: 2014-06-03 Analyzed By: MC  
 Prep Batch: 95109 Sample Preparation: 2014-06-03 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	<b>3320</b>	<b>3320</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364407 - 257-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112660 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95253 Sample Preparation: 2014-06-09 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	J	2	<b>3.50</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364408 - 257-02**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 112462      Date Analyzed: 2014-05-30      Analyzed By: JR  
 Prep Batch: 95073      Sample Preparation: 2014-05-30      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>531</b>	<b>531</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364408 - 257-02**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 112462      Date Analyzed: 2014-05-30      Analyzed By: JR  
 Prep Batch: 95073      Sample Preparation: 2014-05-30      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>11.5</b>	<b>11.5</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364408 - 257-02**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 112495      Date Analyzed: 2014-06-03      Analyzed By: MC  
 Prep Batch: 95109      Sample Preparation: 2014-06-03      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	<b>2100</b>	<b>2100</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364408 - 257-02**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112660 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95253 Sample Preparation: 2014-06-09 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364409 - 257/260-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112462 Date Analyzed: 2014-05-30 Analyzed By: JR  
 Prep Batch: 95073 Sample Preparation: 2014-05-30 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>658</b>	<b>658</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364409 - 257/260-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112462 Date Analyzed: 2014-05-30 Analyzed By: JR  
 Prep Batch: 95073 Sample Preparation: 2014-05-30 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>4.82</b>	<b>4.82</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364409 - 257/260-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112495 Date Analyzed: 2014-06-03 Analyzed By: MC  
 Prep Batch: 95109 Sample Preparation: 2014-06-03 Prepared By: MC

*continued . . .*

*sample 364409 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2640</b>	<b>2640</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364409 - 257/260-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112660 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95253 Sample Preparation: 2014-06-09 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	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364410 - 257 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112462 Date Analyzed: 2014-05-30 Analyzed By: JR  
 Prep Batch: 95073 Sample Preparation: 2014-05-30 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>3990</b>	<b>3990</b>	<11.9	mg/L	500	11.9	2.5	0.0238

**Sample: 364410 - 257 Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112462 Date Analyzed: 2014-05-30 Analyzed By: JR  
 Prep Batch: 95073 Sample Preparation: 2014-05-30 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	<b>6.21</b>	<b>6.21</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364410 - 257 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112495 Date Analyzed: 2014-06-03 Analyzed By: MC  
 Prep Batch: 95109 Sample Preparation: 2014-06-03 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	1	<b>25100</b>	<b>25100</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364410 - 257 Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112660 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95253 Sample Preparation: 2014-06-09 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	<b>182</b>	<b>182</b>	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112462  
Prep Batch: 95073Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-30Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112462  
Prep Batch: 95073Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-30Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112495  
Prep Batch: 95109Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112660  
Prep Batch: 95253Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 364534

QC Batch: 112495  
Prep Batch: 95109

Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1540	1500	mg/L	1	3	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112462  
Prep Batch: 95073Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-30Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	25.1	mg/L	1	25.0	<0.0238	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	25.1	mg/L	1	25.0	<0.0238	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: 112462  
Prep Batch: 95073Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-30Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.97	mg/L	1	5.00	<0.0374	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.96	mg/L	1	5.00	<0.0374	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: 112495  
Prep Batch: 95109Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	1020	mg/L	1	1000	<2.50	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	90 - 110	1	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: 112660  
Prep Batch: 95253

Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09

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	45.5	mg/L	1	50.0	<1.80	91	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							
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	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: 364408QC Batch: 112462  
Prep Batch: 95073Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-30Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2010	mg/L	55.6	1390	531	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	2020	mg/L	55.6	1390	531	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: 364408QC Batch: 112462  
Prep Batch: 95073Date Analyzed: 2014-05-30  
QC Preparation: 2014-05-30Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	288	mg/L	55.6	278	11.5	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	288	mg/L	55.6	278	11.5	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: 364532QC Batch: 112660  
Prep Batch: 95253Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	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
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	80 - 120	0	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: 112462

Date Analyzed: 2014-05-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-05-30

### Standard (CCV-1)

QC Batch: 112462

Date Analyzed: 2014-05-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.87	97	90 - 110	2014-05-30

### Standard (CCV-2)

QC Batch: 112462

Date Analyzed: 2014-05-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-05-30

### Standard (CCV-2)

QC Batch: 112462

Date Analyzed: 2014-05-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-05-30

**Standard (CCV-3)**

QC Batch: 112462

Date Analyzed: 2014-05-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-05-30

**Standard (CCV-3)**

QC Batch: 112462

Date Analyzed: 2014-05-30

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-05-30

**Standard (ICV-1)**

QC Batch: 112660

Date Analyzed: 2014-06-09

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	mg/L	5.00	4.62	92	85 - 115	2014-06-09

**Standard (CCV-1)**

QC Batch: 112660

Date Analyzed: 2014-06-09

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	mg/L	5.00	5.18	104	85 - 115	2014-06-09

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	Pass

---

# Appendix

## Report Definitions

Name	Definition
MDL	Method Detection Limit
MLQ	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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

## Result Comments

- 1 Ran Lagoon sample at 10ml.

## **Attachments**

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

6701 Abardien, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

155 McCurtcheon, 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 # 14053224

Company Name: D&H Petroleum & Environmental Services  
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
Contact Person: Victor Ayala  
Phone #: 915-859-8150  
Cell #: vajala@dhpump.com  
Fax #: vajala@dhpump.com  
E-mail: vajala@dhpump.com

Project Name: Sunset Dairy  
Project Location (including state): Sunset Dairy, PO Box 10, Mesquite, NM 88048  
Project #: 441982  
Sampler Signature: [Signature]

Invoice to (if different from above): Sunset Dairy, PO Box 10, Mesquite, NM 88048

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
16207-1	257-01	1	500	X				X					5-30-14	9:23
L-2	257-01	1	250	X				X					5-30-14	9:23
08-1	257-02	1	500	X				X					10:20	10:20
L-2	257-02	1	250	X				X					10:20	10:20
<del>---</del>	<del>---</del>	<del>1</del>	<del>---</del>	<del>X</del>				<del>X</del>					<del>---</del>	<del>---</del>
<del>---</del>	<del>---</del>	<del>1</del>	<del>---</del>	<del>X</del>				<del>X</del>					<del>---</del>	<del>---</del>
25702-1	257/260-01	1	800	X				X					9:43	9:43
L-2	257/260-01	1	250	X				X					9:43	9:43
10-1	257 Lagoon	1	500	X				X					9:40	9:40
L-2	257 Lagoon	1	250	X				X					8:40	8:40

Relinquished By: [Signature] Date: 5-30-14 Time: 12:45  
Received By: DJH Date: 5-30-14 Time: 12:45  
Intact  N  
Headspace  Y  
Temp 124 1110C  
Log-in Review

ANALYSIS REQUEST	
MTBE 8021B/602	X
BTEX 8021B/602	X
TPH 418.1 / TX1005	X
TX 1005 Extended (C35)	X
PAH 8270C	X
PAH 8270 (Low Level Analysis)	X
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
Other - Phosphorus (EPA 6010B)	X
Turn Around Time	
Hold	

Remarks: 2  
Dry Weight Basis Required  
TRRP Report Required



Company Name: D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
1221 Tower Trail Ln, El Paso TX 79907  
 Contact Person: Victor Ayala  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-mail: vajala@dhpump.com

Project #: 441982  
 Project Name: Sunset Dairy  
 Ed DeRuyter 575-233-2029  
 Sampler Signature: *[Signature]*

Project Location (including state):  
Sunset Dairy, 1790

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
36407-1	257-01	1	500	X				X	X	X	X	X	5-30-14	9:23
1-2	257-01	1	250	X				X	X	X	X	X		9:23
08-1	257-02	1	500	X				X	X	X	X	X	10:20	10:20
1-2	257-02	1	250	X				X	X	X	X	X	10:20	10:20
257-00		1		X				X	X	X	X	X		
257-00		1		X				X	X	X	X	X		
34402-1	257/260-01	1	800	X				X	X	X	X	X	9:43	9:43
1-2	257/260-01	1	250	X				X	X	X	X	X	9:43	9:43
10-1	257 Lagoon	1	500	X				X	X	X	X	X	8:40	8:40
1-2	257 Lagoon	1	250	X				X	X	X	X	X	8:40	8:40

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  
 Other - Phosphorus (EPA 6010B)

Turn Around Time

Hold

Reinquired By: *[Signature]* Date: 5-30-14 Time: 12:45  
 Received By: *[Signature]* Date: 5-30-14 Time: 12:45

Reinquired By: *[Signature]* Date: 5-30-14 Time: 16:30  
 Received By: *[Signature]* Date: 5-30-14 Time: 9:20

Lab Use Only  
 Intact  N  
 Headspace  N  
 Temp 18.1 11.8  
 Log-in Review \_\_\_\_\_

Remarks: *[Handwritten notes]*

*sample 364594 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

---

## Method Blanks

### Method Blank (1)

QC Batch: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

### Method Blank (1)

QC Batch: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112546  
Prep Batch: 95154Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112591  
Prep Batch: 95190Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05Analyzed By: MC  
Prepared By: MC

---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

**Method Blank (1)**QC Batch: 112738  
Prep Batch: 95321Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

**Method Blank (1)**QC Batch: 112739  
Prep Batch: 95322Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

---

## Duplicates

**Duplicate (1)** Duplicated Sample: 364588QC Batch: 112546  
Prep Batch: 95154Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2220	2260	mg/L	1	2	10

**Duplicate (1)** Duplicated Sample: 364593QC Batch: 112591  
Prep Batch: 95190Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1740	1640	mg/L	1	6	10

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.7	mg/L	1	25.0	<0.0238	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.8	mg/L	1	25.0	<0.0238	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: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.91	mg/L	1	5.00	<0.0374	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.91	mg/L	1	5.00	<0.0374	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: 112546  
Prep Batch: 95154Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	993	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	995	mg/L	1	1000	<2.50	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: 112591  
Prep Batch: 95190

Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	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	1010	mg/L	1	1000	<2.50	101	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: 112738  
Prep Batch: 95321

Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11

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	44.1	mg/L	1	50.0	<1.80	88	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	Rec.	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	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: 112739  
Prep Batch: 95322

Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11

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	46.2	mg/L	1	50.0	<1.80	92	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 Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	3	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: 364593QC Batch: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1960	mg/L	55.6	1390	506	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
Chloride		1	1960	mg/L	55.6	1390	506	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: 364593QC Batch: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	278	mg/L	55.6	278	5.18	98	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	278	mg/L	55.6	278	5.18	98	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: 364591QC Batch: 112738  
Prep Batch: 95321Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	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: 364701

QC Batch: 112739  
Prep Batch: 95322

Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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							
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	80 - 120	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: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-06-03

**Standard (CCV-1)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-06-03

**Standard (CCV-2)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-06-03

**Standard (CCV-2)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-06-03

**Standard (CCV-3)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-06-03

**Standard (CCV-3)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-06-03

**Standard (CCV-4)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-06-03

**Standard (CCV-4)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-06-03

**Standard (ICV-1)**

QC Batch: 112738

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.48	90	85 - 115	2014-06-11

**Standard (CCV-1)**

QC Batch: 112738

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.90	98	85 - 115	2014-06-11

**Standard (ICV-1)**

QC Batch: 112739

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.48	90	85 - 115	2014-06-11

**Standard (CCV-1)**

QC Batch: 112739

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.90	98	85 - 115	2014-06-11

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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	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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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Fax (432) 689-6313

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

email: lab@traceanalysis.com

Company Name: **D&H Petroleum** Phone #: **915-894-8150**  
 Address: (Street, City, Zip) **1221 Tower Trail Ln, El Paso, TX, 79927** Fax #: **915-894-8150**  
 Contact Person: **VICTOR AYALA** E-mail: **VAIALA@DHPUMP.COM**  
 Invoice to: **VARIOUS DRUMS**  
 (if different from above)  
 Project #: **441968** Project Name: **LINDA ARMSTRONG 575-233-3620**  
 Project Location (including state): **DANA ANA COUNTY, NM** Project Signature: **[Signature]**

## ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 EX(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	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCBs 8082 / 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	NITRATES EPA 300.0	TKN SM H4D NORG C	CHLORIDE EPA 300.0	Total Dissolved Solids SM 2540C	Hold
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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
264588-1	DAD-16	1	600	X				X						6-3-14	13:05
1-2	DAD-16	1	250	X				X							13:08
8-1	DAD-17	1	500	X				X						12:21	
1-2	DAD-17	1	250	X				X						12:21	
90-1	DAD-18	1	500	X				X						11:35	
1-2	DAD-18	1	250	X				X						11:35	
91-1	DAD-5	1	500	X				X						10:24	
1-2	DAD-5	1	250	X				X						10:24	
92-1	DAD-4	1	500	X				X						9:36	
1-2	DAD-4	1	250	X				X						9:36	

REMARKS:

LAB USE ONLY

INST: **INST 1** Time: **14:30** Company: **D&H** Date: **6-3-14** Received by: **[Signature]**

OBS: **3** Time: **14:30** Company: **D&H** Date: **6-3-14** Received by: **[Signature]**

COR: **2** Time: **14:30** Company: **D&H** Date: **6-3-14** Received by: **[Signature]**

INST: **INST 1** Time: **16:30** Company: **D&H** Date: **6-3-14** Received by: **[Signature]**

OBS: **3** Time: **16:30** Company: **D&H** Date: **6-3-14** Received by: **[Signature]**

COR: **2** Time: **16:30** Company: **D&H** Date: **6-3-14** Received by: **[Signature]**

Carrier # **Ad 574**

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting Limits Are Needed



# TraceAnalysis, Inc.

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1 (888) 588-3443

BioAquatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750  
Fax (972) 242-7508

email: lab@traceanalysis.com

Company Name: **3H PETROLEUM** Phone #: **415-859-8150**  
 Address: (Street, City, Zip) **1221 TREE TRAIL LN, EL PASO, TX, 79927** Fax #: **VAYALAG@hump.com**  
 Contact Person: **VICTOR AYALA** E-mail:  
 Invoice to: **VARIMS DARRIG** Project Name: **LINDA ARMSTRONG 575-233-3223**  
 (If different from above) **441968** Project Name: **DANA ANA CONSORTIUM**  
 Project #: **441968** Sampler Signature: **Judy**  
 Project Location (including state): **DANA ANA COUNTY, NM**

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
264524	DAD-2	1	500	X			X					6-3-14	8:56
264525	DAD-2	1	150	X			X					8:56	8:56
944-1	DAD-1	1	500	X			X					8:27	8:27
VB-52	DAD-2/K1005	1	200	X			X					8:27	8:27

Relinquished by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30**  
 Received by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30**  
 INST: **3** OBS: **3** COR: **2**  
 Relinquished by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30**  
 Received by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30**  
 INST: **3** OBS: **3** COR: **2**  
 Relinquished by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30**  
 Received by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30**  
 INST: **3** OBS: **3** COR: **2**

## 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 EX(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"/>	PCB's 8082 / 608
<input type="checkbox"/>	Pesticides 8081 / 608
<input type="checkbox"/>	BOD, TSS, pH
<input type="checkbox"/>	Moisture Content
<input type="checkbox"/>	Cl, F, SO <sub>4</sub> , NO <sub>3</sub> , N, NO <sub>2</sub> , N, PO <sub>4</sub> , P, Alkalinity
<input type="checkbox"/>	Na, Ca, Mg, K, TDS, EC
<input type="checkbox"/>	Nitrite EPA 300.0
<input type="checkbox"/>	TN EPA 4500 NORG.C
<input type="checkbox"/>	Chloride EPA 800.0
<input type="checkbox"/>	TOTAL DISSOLVED SOLIDS SM 2540 (MILL)
<input type="checkbox"/>	Turn Around Time if different from standard

### REMARKS:

### LAB USE ONLY

Intercept  N  
 Headspace Y/N/N/A  
 Log-in  **14**  
 Carrier # **Call**

# TraceAnalysis, Inc.

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 Address: (Street, City, Zip) **1221 TOWER TRAIL LN, EL PASO, TX, 79927** Fax #: **915-854-8150**  
 Contact Person: **VICTOR AYALA** E-mail: **VAYALAD@PUMP.COM**  
 Invoice to: **VARIOUS DAIRIES**  
 Project #: **441968** Project Name: **LINDA ARMSTRONG 575-233-3620**  
 Project Location (including state): **DONA ANA COUNTY, NM** 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	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE			TIME
864588-1	DAD-16	1	500	X			X			X				6-3-14	13:06	
1-2	DAD-16	1	250	X			X			X				13:08		
8-1	DAD-17	1	500	X			X			X				12:21		
1-2	DAD-17	1	250	X			X			X				12:21		
90-1	DAD-18	1	500	X			X			X				11:35		
1-2	DAD-18	1	250	X			X			X				11:35		
91-1	DAD-5	1	500	X			X			X				10:24		
1-2	DAD-5	1	250	X			X			X				10:24		
92-1	DAD-4	1	500	X			X			X				9:36		
1-2	DAD-4	1	250	X			X			X				9:36		

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	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	NITRATES EPA 300.0	TKN SM 450 NORG C	CHLORIDE EPA 300.0	TOTM DISSOLVED SOLIDS SM 2540C	
																				X	X	X	X

Relinquished by: **[Signature]** Company: **D&H** Date: **6-3-14** Time: **14:30**  
 Received by: **[Signature]** Company: **DA** Date: **6-3-14** Time: **9:30**  
 Relinquished by: **[Signature]** Company: **DA** Date: **6-3-14** Time: **16:30**  
 Received by: **[Signature]** Company: **DA** Date: **6-3-14** Time: **9:30**

LAB USE ONLY  
 Initials: **[Initials]**  
 Headspace: **[Initials]**  
 Login: **[Initials]**

REMARKS:  
 Dry Weight Basis Required   
 TRRP Report Required   
 Check if Special Reporting Limits Are Needed

**TraceAnalysis, Inc.**

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Address: (Street, City, Zip)  
1221 TORRE TRAIL LN, EL PASO, TX, 79927

Contact Person: **VICTOR AYALA**  
E-mail: **VAYAL@ahpump.com**

Invoice to: **VARIOUS DARRIES**  
(If different from above)  
Project #: **441968**

Project Location (including state): **DONA ANA COUNTY, NM**  
Project Name: **DONA ANA CONSORTIUM**  
Sampler Signature: *July*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING TIME
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	
364574	DAD-2	1	500	X			X		X			6-3-14 8:56
122	DAD-2	1	250	X			X		X			8:56
94-1	DAD-1	1	500	X			X		X			8:27
122	DAD-2 / 122-1	1	250	X			X		X			8:27

**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	
NITRATE	EPA 300.0
TKN	SM 4500 NORG C
CHLORIDE	EPA 800.0
TOTAL DISSOLVED SOLIDS	SM 2540 C MTD
Turn Around Time	If different from standard
Hold	

LAB USE  
OBS 3  
COR 2  
ONLY

INST: 10  
OBS: 39  
COR: 33

Received by: *[Signature]* Date: 6-3-14  
Received by: *[Signature]* Date: 6-3-14  
Received by: *[Signature]* Date: 6-3-14

REMARKS:

Dry Weight Basis Required  
TRRP Report Required  
Check if Special Reporting Limits Are Needed

Carrier # **US: 20979014**



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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

Linda Armstrong  
 Dona Ana Dairies

Report Date: June 11, 2014

P.O. Box 10  
 Mesquite, NM, 88048

Work Order: 14060325



Project Name: Dona Ana Dairies

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
364588	DAD-16	water	2014-06-03	13:08	2014-06-03
364589	DAD-17	water	2014-06-03	12:21	2014-06-03
364590	DAD-18	water	2014-06-03	11:35	2014-06-03
364591	DAD-5	water	2014-06-03	10:24	2014-06-03
364592	DAD-4	water	2014-06-03	09:36	2014-06-03
364593	DAD-2	water	2014-06-03	08:56	2014-06-03
364594	DAD-1	water	2014-06-03	08:27	2014-06-03

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.

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.*

*Michael Abel*

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Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Dona Ana Dairies were received by TraceAnalysis, Inc. on 2014-06-03 and assigned to work order 14060325. Samples for work order 14060325 were received intact at a temperature of 2 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	95128	2014-06-03 at 18:56	112514	2014-06-03 at 18:56
NO3 (IC)	E 300.0	95128	2014-06-03 at 18:56	112514	2014-06-03 at 18:56
TDS	SM 2540C	95154	2014-06-04 at 14:40	112546	2014-06-04 at 14:40
TDS	SM 2540C	95190	2014-06-05 at 15:20	112591	2014-06-05 at 15:20
TKN	SM 4500-NH3 B,C	95321	2014-06-11 at 10:30	112738	2014-06-11 at 15:30
TKN	SM 4500-NH3 B,C	95322	2014-06-11 at 10:30	112739	2014-06-11 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 14060325 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.

The temperature of the Cold Box for storing samples was between 6 and 15.0 degrees C between June 8th and June 9th, 2014. We do not believe this will affect your TKN results.

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: 364588 - DAD-16**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112514 Date Analyzed: 2014-06-03 Analyzed By: JR  
 Prep Batch: 95128 Sample Preparation: 2014-06-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>569</b>	<b>569</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364588 - DAD-16**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112514 Date Analyzed: 2014-06-03 Analyzed By: JR  
 Prep Batch: 95128 Sample Preparation: 2014-06-03 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	<b>1.49</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364588 - DAD-16**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112546 Date Analyzed: 2014-06-04 Analyzed By: MC  
 Prep Batch: 95154 Sample Preparation: 2014-06-04 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	<b>2260</b>	<b>2260</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364588 - DAD-16**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 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	J	2	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364589 - DAD-17**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112514 Date Analyzed: 2014-06-03 Analyzed By: JR  
 Prep Batch: 95128 Sample Preparation: 2014-06-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>525</b>	<b>525</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364589 - DAD-17**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112514 Date Analyzed: 2014-06-03 Analyzed By: JR  
 Prep Batch: 95128 Sample Preparation: 2014-06-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	<b>1.03</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364589 - DAD-17**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112546 Date Analyzed: 2014-06-04 Analyzed By: MC  
 Prep Batch: 95154 Sample Preparation: 2014-06-04 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	<b>2600</b>	<b>2600</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364589 - DAD-17**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 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	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364590 - DAD-18**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112514 Date Analyzed: 2014-06-03 Analyzed By: JR  
 Prep Batch: 95128 Sample Preparation: 2014-06-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>749</b>	<b>749</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364590 - DAD-18**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112514 Date Analyzed: 2014-06-03 Analyzed By: JR  
 Prep Batch: 95128 Sample Preparation: 2014-06-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>13.2</b>	<b>13.2</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364590 - DAD-18**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112546 Date Analyzed: 2014-06-04 Analyzed By: MC  
 Prep Batch: 95154 Sample Preparation: 2014-06-04 Prepared By: MC

*continued . . .*

*sample 364590 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2760</b>	<b>2760</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364590 - DAD-18**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112738

Prep Batch: 95321

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-06-11

Sample Preparation: 2014-06-11

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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364591 - DAD-5**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112514

Prep Batch: 95128

Analytical Method: E 300.0

Date Analyzed: 2014-06-03

Sample Preparation: 2014-06-03

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	<b>497</b>	<b>497</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364591 - DAD-5**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112514

Prep Batch: 95128

Analytical Method: E 300.0

Date Analyzed: 2014-06-03

Sample Preparation: 2014-06-03

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	J	1	<b>2.20</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364591 - DAD-5**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112546 Date Analyzed: 2014-06-04 Analyzed By: MC  
 Prep Batch: 95154 Sample Preparation: 2014-06-04 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	<b>2000</b>	<b>2000</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364591 - DAD-5**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364592 - DAD-4**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112514 Date Analyzed: 2014-06-03 Analyzed By: JR  
 Prep Batch: 95128 Sample Preparation: 2014-06-03 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>740</b>	<b>740</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364592 - DAD-4**

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	NO3 (IC)	Date Analyzed:	2014-06-03	Analyzed By:	JR
QC Batch:	112514	Sample Preparation:	2014-06-03	Prepared By:	JR
Prep Batch:	95128				

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	<b>0.988</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364592 - DAD-4**

Laboratory:	El Paso	Analytical Method:	SM 2540C	Prep Method:	N/A
Analysis:	TDS	Date Analyzed:	2014-06-04	Analyzed By:	MC
QC Batch:	112546	Sample Preparation:	2014-06-04	Prepared By:	MC
Prep Batch:	95154				

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2810</b>	<b>2810</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364592 - DAD-4**

Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-06-11	Analyzed By:	CF
QC Batch:	112739	Sample Preparation:	2014-06-11	Prepared By:	CF
Prep Batch:	95322				

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	<b>3.50</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364593 - DAD-2**

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2014-06-03	Analyzed By:	JR
QC Batch:	112514	Sample Preparation:	2014-06-03	Prepared By:	JR
Prep Batch:	95128				

*continued ...*

*sample 364593 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>506</b>	<b>506</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364593 - DAD-2**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112514 Date Analyzed: 2014-06-03 Analyzed By: JR  
 Prep Batch: 95128 Sample Preparation: 2014-06-03 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	<b>5.18</b>	<b>5.18</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364593 - DAD-2**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112591 Date Analyzed: 2014-06-05 Analyzed By: MC  
 Prep Batch: 95190 Sample Preparation: 2014-06-05 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	<b>1640</b>	<b>1640</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364593 - DAD-2**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112739 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95322 Sample Preparation: 2014-06-11 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364594 - DAD-1**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112514 Date Analyzed: 2014-06-03 Analyzed By: JR  
 Prep Batch: 95128 Sample Preparation: 2014-06-03 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>491</b>	<b>491</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364594 - DAD-1**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112514 Date Analyzed: 2014-06-03 Analyzed By: JR  
 Prep Batch: 95128 Sample Preparation: 2014-06-03 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	<b>6.13</b>	<b>6.13</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364594 - DAD-1**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112591 Date Analyzed: 2014-06-05 Analyzed By: MC  
 Prep Batch: 95190 Sample Preparation: 2014-06-05 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	<b>2020</b>	<b>2020</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364594 - DAD-1**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112739 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95322 Sample Preparation: 2014-06-11 Prepared By: CF

*continued ...*



*sample 364594 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

---

## Method Blanks

### Method Blank (1)

QC Batch: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

### Method Blank (1)

QC Batch: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112546  
Prep Batch: 95154Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112591  
Prep Batch: 95190Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05Analyzed By: MC  
Prepared By: MC

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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

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**Method Blank (1)**QC Batch: 112738  
Prep Batch: 95321Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

**Method Blank (1)**QC Batch: 112739  
Prep Batch: 95322Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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## Duplicates

**Duplicate (1)** Duplicated Sample: 364588QC Batch: 112546  
Prep Batch: 95154Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2220	2260	mg/L	1	2	10

**Duplicate (1)** Duplicated Sample: 364593QC Batch: 112591  
Prep Batch: 95190Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1740	1640	mg/L	1	6	10

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.7	mg/L	1	25.0	<0.0238	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.8	mg/L	1	25.0	<0.0238	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: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.91	mg/L	1	5.00	<0.0374	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.91	mg/L	1	5.00	<0.0374	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: 112546  
Prep Batch: 95154Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	993	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	995	mg/L	1	1000	<2.50	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: 112591  
Prep Batch: 95190

Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	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	1010	mg/L	1	1000	<2.50	101	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: 112738  
Prep Batch: 95321

Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11

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	44.1	mg/L	1	50.0	<1.80	88	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.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	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: 112739  
Prep Batch: 95322

Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11

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	46.2	mg/L	1	50.0	<1.80	92	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 Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	3	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: 364593QC Batch: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1960	mg/L	55.6	1390	506	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1960	mg/L	55.6	1390	506	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: 364593QC Batch: 112514  
Prep Batch: 95128Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	278	mg/L	55.6	278	5.18	98	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	278	mg/L	55.6	278	5.18	98	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: 364591QC Batch: 112738  
Prep Batch: 95321Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	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: 364701

QC Batch: 112739  
Prep Batch: 95322

Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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							
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	80 - 120	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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## Calibration Standards

**Standard (CCV-1)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-06-03

**Standard (CCV-1)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-06-03

**Standard (CCV-2)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-06-03

**Standard (CCV-2)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-06-03

**Standard (CCV-3)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-06-03

**Standard (CCV-3)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-06-03

**Standard (CCV-4)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-06-03

**Standard (CCV-4)**

QC Batch: 112514

Date Analyzed: 2014-06-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-06-03

**Standard (ICV-1)**

QC Batch: 112738

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.48	90	85 - 115	2014-06-11

**Standard (CCV-1)**

QC Batch: 112738

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.90	98	85 - 115	2014-06-11

**Standard (ICV-1)**

QC Batch: 112739

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.48	90	85 - 115	2014-06-11

**Standard (CCV-1)**

QC Batch: 112739

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.90	98	85 - 115	2014-06-11

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

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

email: lab@traceanalysis.com

Company Name: **DH Petroleum** Phone #: **915-894-8150**  
 Address: (Street, City, Zip)  
 Contact Person: **VICTOR AYALA** E-mail: **VAIALA@DH.PETRO.COM**  
 Invoice to: **VARIOUS DWIGLES**  
 (if different from above)  
 Project #: **441968** Project Name: **DNA ANA CONCRETUM**  
 Project Location (including state): **DONA ANA COUNTY, NM**  
 Sampler Signature: *[Signature]*

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 EX(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	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCBs 8082 / 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	NITRATES EPA 300.0	TKN SM HGD NORG C	CHLORIDE EPA 300.0	Total Dissolved Solids SM 2540C	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>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	TIME
264588-1	DAD-16	1	600	X				X						6-3-14	13:05
1-2	DAD-16	1	250	X				X							13:08
8-1	DAD-17	1	500	X				X						12:21	
1-2	DAD-17	1	250	X				X						12:21	
90-1	DAD-18	1	500	X				X						11:35	
1-2	DAD-18	1	250	X				X						11:35	
91-1	DAD-5	1	500	X				X						10:24	
1-2	DAD-5	1	250	X				X						10:24	
92-1	DAD-4	1	500	X				X						9:36	
1-2	DAD-4	1	250	X				X						9:36	

**LAB USE ONLY**

Relinquished by: *[Signature]* Company: **DH** Date: **6-3-14** Time: **14:30**  
 Received by: *[Signature]* Company: **Trace** Date: **6-3-14** Time: **14:30**

Relinquished by: *[Signature]* Company: **DH** Date: **6-3-14** Time: **14:30**  
 Received by: *[Signature]* Company: **Trace** Date: **6-3-14** Time: **14:30**

Relinquished by: *[Signature]* Company: **DH** Date: **6-3-14** Time: **14:30**  
 Received by: *[Signature]* Company: **Trace** Date: **6-3-14** Time: **14:30**

REMARKS:

Dry Weight Basis Required   
 TRRP Report Required   
 Check If Special Reporting Limits Are Needed

Carrier # *[Signature]*

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
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BioAquatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
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email: lab@traceanalysis.com

Company Name: **3H PETROLEUM** Phone #: **415-859-8150**  
 Address: (Street, City, Zip) **1221 TREE TRAIL LN, EL PASO, TX, 79927** Fax #: **VAYALAG@hump.com**  
 Contact Person: **VICTOR AYALA** E-mail:  
 Invoice to: **VARIMS DARRIG** Project Name: **LINDA ARMSTRONG 575-233-3223**  
 (If different from above) **441968** Project Name: **DANA ANA CONSORTIUM**  
 Project #: **441968** Sampler Signature: **Judy**  
 Project Location (including state): **DANA ANA COUNTY, NM**

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		TIME	Turn Around Time if different from standard
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE		
264524	DAD-2	1	500	X			X					6-3-14 8:56		
264525	DAD-2	1	150	X			X					8:56		
944-1	DAD-1	1	500	X			X					8:27		
VB-52	DAD-2/K1005	1	200	X			X					8:27		

## 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 Ex(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"/>	PCB's 8082 / 608
<input type="checkbox"/>	Pesticides 8081 / 608
<input type="checkbox"/>	BOD, TSS, pH
<input type="checkbox"/>	Moisture Content
<input type="checkbox"/>	Cl, F, SO <sub>4</sub> , NO <sub>3</sub> , N, NO <sub>2</sub> , N, PO <sub>4</sub> , P, Alkalinity
<input type="checkbox"/>	Na, Ca, Mg, K, TDS, EC
<input type="checkbox"/>	Nitrite EPA 300.0
<input type="checkbox"/>	TEN SM 4500 NDR/C
<input type="checkbox"/>	Chloride EPA 800.0
<input type="checkbox"/>	TOTAL DISSOLVED SOLIDS SM 2540 (MIL)
<input type="checkbox"/>	Hold

Relinquished by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30** Received by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30** INST: **3** OBS: **3** COR: **2**

Relinquished by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30** Received by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30** INST: **3** OBS: **3** COR: **2**

Relinquished by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30** Received by: **Judy** Company: **DH** Date: **6-3-14** Time: **14:30** INST: **3** OBS: **3** COR: **2**

LAB USE ONLY  
 Interferent  N  
 Headspace Y/N/N/A  Y  
 Log-in  **WLP 14**

REMARKS:



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Contact Person: **VICTOR AYALA**  
Phone #: **915-834-8150**  
Fax #: **915-834-8150**  
E-mail: **VAYALA@DHPUMP.COM**

Invoice to: **VARIOUS DAIRIES**  
(If different from above)  
Project #: **4419600**  
Project Name: **LINDA ARMSTRONG 575-233-3620**  
Project Location (including state): **DONA ANA COUNTY, NM**  
Sampler Signature: **[Signature]**

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING			TIME
				WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	TIME	
864588-1	DAD-16	1	500	X			X			X				6-3-14	13:06
1-2	DAD-16	1	250	X			X			X				13:08	
8-1	DAD-17	1	500	X			X			X				12:21	
1-2	DAD-17	1	250	X			X			X				12:21	
90-1	DAD-18	1	500	X			X			X				11:35	
1-2	DAD-18	1	250	X			X			X				11:35	
91-1	DAD-5	1	500	X			X			X				10:24	
1-2	DAD-5	1	250	X			X			X				10:24	
92-1	DAD-4	1	500	X			X			X				9:36	
1-2	DAD-4	1	250	X			X			X				9:36	

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	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	NITRATES EPA 300.0	TKN SM 450 NORG C	CHLORIDE EPA 300.0	TOTM DISSOLVED SOLIDS SM 2540C	
																				X	X	X	X

Relinquished by: **[Signature]** Company: **D&H** Date: **6-3-14** Time: **14:30**

Relinquished by: **[Signature]** Company: **D&H** Date: **6-3-14** Time: **14:30**

Relinquished by: **[Signature]** Company: **D&H** Date: **6-3-14** Time: **16:30**

Received by: **[Signature]** Company: **D&H** Date: **6-3-14** Time: **9:30**

Received by: **[Signature]** Company: **D&H** Date: **6-3-14** Time: **9:30**

Received by: **[Signature]** Company: **D&H** Date: **6-3-14** Time: **9:30**

LAB USE ONLY  
Initials: **[Initials]**  
Headspace: **[Initials]**  
Log-in: **[Initials]**

REMARKS:

Dry Weight Basis Required   
TRRP Report Required   
Check if Special Reporting Limits Are Needed

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E-mail: VAYALA@ahpump.com  
Phone #: 915-859-8150  
Fax #:

Invoice to: VARIOUS DARRIES  
(If different from above)  
Project #: 441960  
Project Name: DONA ANA CONSORTIUM  
Sampler Signature: GUY

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	MATRIX			PRESERVATIVE METHOD						SAMPLING		
			WATER	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	TIME	
<u>3645934</u>	<u>DAD-2</u>	<u>1</u>	<u>X</u>				<u>X</u>		<u>X</u>				<u>6-3-14</u>	<u>8:56</u>
<u>1-2</u>	<u>DAD-2</u>	<u>1</u>	<u>X</u>					<u>X</u>	<u>X</u>					<u>8:56</u>
<u>94-1</u>	<u>DAD-1</u>	<u>1</u>	<u>X</u>				<u>X</u>		<u>X</u>				<u>8:27</u>	
<u>16-2</u>	<u>DAD-2 / 16:56</u>	<u>1</u>	<u>X</u>					<u>X</u>	<u>X</u>				<u>8:27</u>	

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	NITRATE EPA 300.0	TKN SM 4500 NORG C	CHLORIDE EPA 800.0	TOTAL DISSOLVED SOLIDS SM 2540 CMLT	Turn Around Time if different from standard	Hold		

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST:	OBS:	COR:	LAB USE ONLY	REMARKS:
<u>GUY</u>	<u>DH</u>	<u>6-3-14</u>	<u>14:50</u>	<u>[Signature]</u>				<u>INST 10</u>	<u>OBS 3</u>	<u>COR 2</u>	<u>ONLY</u>	
<u>[Signature]</u>	<u>[Signature]</u>	<u>6-3-14</u>	<u>14:50</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>6-3-14</u>	<u>14:50</u>	<u>INST 10</u>	<u>OBS 3</u>	<u>COR 2</u>		
<u>[Signature]</u>	<u>[Signature]</u>	<u>6-3-14</u>	<u>16:30</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>6-3-14</u>	<u>16:30</u>	<u>INST 10</u>	<u>OBS 3</u>	<u>COR 3</u>		

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.  
Carrier # 65: 20979014  
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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

Jerry Settles  
 Del Oro Dairy, LLC.  
 1025 East O'Hara  
 P.O. Box 1846  
 Anthony, NM, 88021

Report Date: June 11, 2014

Work Order: 14060229



DP: 692  
 Project Location: 1025 East OHara, Anthony, NM  
 Project Name: Del Oro 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
364532	692-01	water	2014-06-02	11:55	2014-06-02
364533	692-05	water	2014-06-02	12:55	2014-06-02
364534	692-06	water	2014-06-02	10:33	2014-06-02
364535	692 Lagoon	water	2014-06-02	10:46	2014-06-02
364536	692-08	water	2014-06-02	11:19	2014-06-02
364537	692-09	water	2014-06-02	13:33	2014-06-02
364538	692-07	water	2014-06-02	12:33	2014-06-02

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.

This report consists of a total of 28 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.*

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2014-06-02 and assigned to work order 14060229. Samples for work order 14060229 were received intact at a temperature of 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	95106	2014-06-02 at 19:57	112492	2014-06-02 at 19:57
NO3 (IC)	E 300.0	95106	2014-06-02 at 19:57	112492	2014-06-02 at 19:57
TDS	SM 2540C	95109	2014-06-03 at 13:15	112495	2014-06-03 at 13:15
TDS	SM 2540C	95154	2014-06-04 at 14:40	112546	2014-06-04 at 14:40
TDS	SM 2540C	95190	2014-06-05 at 15:20	112591	2014-06-05 at 15:20
TKN	SM 4500-NH3 B,C	95253	2014-06-09 at 10:00	112660	2014-06-09 at 14:40
TKN	SM 4500-NH3 B,C	95321	2014-06-11 at 10:30	112738	2014-06-11 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 14060229 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.

The temperature of the Cold Box for storing samples was between 6 and 15.0 degrees C between June 8th and June 9th, 2014. We do not believe this will affect your TKN results.

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: 364532 - 692-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>154</b>	<b>154</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 364532 - 692-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>98.2</b>	<b>98.2</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 364532 - 692-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112495 Date Analyzed: 2014-06-03 Analyzed By: MC  
 Prep Batch: 95109 Sample Preparation: 2014-06-03 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	<b>2660</b>	<b>2660</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364532 - 692-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112660 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95253 Sample Preparation: 2014-06-09 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	J	2	<b>4.20</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364533 - 692-05**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 112492      Date Analyzed: 2014-06-02      Analyzed By: JR  
 Prep Batch: 95106      Sample Preparation: 2014-06-02      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>427</b>	<b>427</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 364533 - 692-05**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 112492      Date Analyzed: 2014-06-02      Analyzed By: JR  
 Prep Batch: 95106      Sample Preparation: 2014-06-02      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>6.50</b>	<b>6.50</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364533 - 692-05**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 112495      Date Analyzed: 2014-06-03      Analyzed By: MC  
 Prep Batch: 95109      Sample Preparation: 2014-06-03      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	<b>1460</b>	<b>1460</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364533 - 692-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>3.50</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364534 - 692-06**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>453</b>	<b>453</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 364534 - 692-06**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>3.90</b>	<b>3.90</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364534 - 692-06**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112495 Date Analyzed: 2014-06-03 Analyzed By: MC  
 Prep Batch: 95109 Sample Preparation: 2014-06-03 Prepared By: MC

*continued . . .*

*sample 364534 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>1500</b>	<b>1500</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364534 - 692-06**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112738

Prep Batch: 95321

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-06-11

Sample Preparation: 2014-06-11

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	<b>3.50</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364535 - 692 Lagoon**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112492

Prep Batch: 95106

Analytical Method: E 300.0

Date Analyzed: 2014-06-02

Sample Preparation: 2014-06-02

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	<b>22700</b>	<b>22700</b>	<23.8	mg/L	1000	23.8	2.5	0.0238

**Sample: 364535 - 692 Lagoon**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112492

Prep Batch: 95106

Analytical Method: E 300.0

Date Analyzed: 2014-06-02

Sample Preparation: 2014-06-02

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	u	1	<0.748	<10.0	<0.748	mg/L	20	0.748	0.5	0.0374

**Sample: 364535 - 692 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112591 Date Analyzed: 2014-06-05 Analyzed By: MC  
 Prep Batch: 95190 Sample Preparation: 2014-06-05 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	1	<b>127000</b>	<b>127000</b>	<250	mg/L	100	250	2.5	2.5

**Sample: 364535 - 692 Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 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	<b>448</b>	<b>448</b>	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364536 - 692-08**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>435</b>	<b>435</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 364536 - 692-08**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 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	<b>4.70</b>	<b>4.70</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364536 - 692-08**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112546 Date Analyzed: 2014-06-04 Analyzed By: MC  
 Prep Batch: 95154 Sample Preparation: 2014-06-04 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	<b>1300</b>	<b>1300</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364536 - 692-08**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 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	<b>4.90</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364537 - 692-09**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

*continued ...*

*sample 364537 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>459</b>	<b>459</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 364537 - 692-09**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 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	<b>6.81</b>	<b>6.81</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364537 - 692-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112546 Date Analyzed: 2014-06-04 Analyzed By: MC  
 Prep Batch: 95154 Sample Preparation: 2014-06-04 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	<b>1300</b>	<b>1300</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364537 - 692-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364538 - 692-07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>527</b>	<b>527</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364538 - 692-07**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 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	<b>3.20</b>	<b>3.20</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364538 - 692-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112546 Date Analyzed: 2014-06-04 Analyzed By: MC  
 Prep Batch: 95154 Sample Preparation: 2014-06-04 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	<b>1590</b>	<b>1590</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364538 - 692-07**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 Prepared By: CF

*continued ...*

*sample 364538 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
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	<b>2.80</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8



## Method Blanks

### Method Blank (1)

QC Batch: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.29	mg/L	0.0238

### Method Blank (1)

QC Batch: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112495  
Prep Batch: 95109Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112546  
Prep Batch: 95154Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: MC  
Prepared By: MC

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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

**Method Blank (1)**QC Batch: 112591  
Prep Batch: 95190Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05Analyzed By: MC  
Prepared By: MC

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Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

**Method Blank (1)**QC Batch: 112660  
Prep Batch: 95253Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

**Method Blank (1)**QC Batch: 112738  
Prep Batch: 95321Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

## Duplicates

**Duplicate (1)** Duplicated Sample: 364534

QC Batch: 112495                                      Date Analyzed: 2014-06-03                                      Analyzed By: MC  
Prep Batch: 95109                                      QC Preparation: 2014-06-03                                      Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1540	1500	mg/L	1	3	10

**Duplicate (1)** Duplicated Sample: 364588

QC Batch: 112546                                      Date Analyzed: 2014-06-04                                      Analyzed By: MC  
Prep Batch: 95154                                      QC Preparation: 2014-06-04                                      Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2220	2260	mg/L	1	2	10

**Duplicate (1)** Duplicated Sample: 364593

QC Batch: 112591                                      Date Analyzed: 2014-06-05                                      Analyzed By: MC  
Prep Batch: 95190                                      QC Preparation: 2014-06-05                                      Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1740	1640	mg/L	1	6	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.3	mg/L	1	25.0	<0.0238	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.2	mg/L	1	25.0	<0.0238	97	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: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.80	mg/L	1	5.00	<0.0374	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.78	mg/L	1	5.00	<0.0374	96	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: 112495  
Prep Batch: 95109Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	1020	mg/L	1	1000	<2.50	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		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	90 - 110	1	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: 112546  
Prep Batch: 95154

Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	993	mg/L	1	1000	<2.50	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							
Total Dissolved Solids		1	995	mg/L	1	1000	<2.50	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: 112591  
Prep Batch: 95190

Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	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	1010	mg/L	1	1000	<2.50	101	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: 112660  
Prep Batch: 95253

Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09

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	45.5	mg/L	1	50.0	<1.80	91	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 Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	85 - 115	2

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: 112738  
Prep Batch: 95321

Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11

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	44.1	mg/L	1	50.0	<1.80	88	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 Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	2

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: 364533QC Batch: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1820	mg/L	55.6	1390	427	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							
Chloride		1	1800	mg/L	55.6	1390	427	99	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: 364533QC Batch: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	276	mg/L	55.6	278	6.5	97	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	273	mg/L	55.6	278	6.5	96	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: 364532QC Batch: 112660  
Prep Batch: 95253Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	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							
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	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: 364591

QC Batch: 112738  
Prep Batch: 95321

Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	80 - 120	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: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.3	97	90 - 110	2014-06-02

### Standard (CCV-1)

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.81	96	90 - 110	2014-06-02

### Standard (CCV-2)

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-06-02

### Standard (CCV-2)

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.84	97	90 - 110	2014-06-02

**Standard (CCV-3)**

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-06-02

**Standard (CCV-3)**

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-06-02

**Standard (CCV-4)**

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-06-02

**Standard (CCV-4)**

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.87	97	90 - 110	2014-06-02

**Standard (ICV-1)**

QC Batch: 112660

Date Analyzed: 2014-06-09

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	mg/L	5.00	4.62	92	85 - 115	2014-06-09

**Standard (CCV-1)**

QC Batch: 112660

Date Analyzed: 2014-06-09

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	mg/L	5.00	5.18	104	85 - 115	2014-06-09

**Standard (ICV-1)**

QC Batch: 112738

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.48	90	85 - 115	2014-06-11

**Standard (CCV-1)**

QC Batch: 112738

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.90	98	85 - 115	2014-06-11

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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

## Result Comments

- Sample was a oily sludge in thickness. Had to dilute sample – 1ml/100 ml dh2o cylinder.

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

5701 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) 585-4844

Company Name:

D&H Petroleum & Environmental Services

Address: (Street, City, Zip)

1221 Tower Trail Ln, El Paso TX 79907

Contact Person:

Victor Ayala

Phone #:

Cell #:

Fax #:

E-mail:

915-859-8150

yaiala@dhpump.com

Invoice to (if different from above):

Del Oro Dairy, PO Box 1846, Anthony, TX 88021

Project #:

441983

Project Name:

Del Oro Dairy

Project Location (including state):

Del Oro Dairy, 1025 East O'Hara, Anthony, NM

Sampler Signature:

*July*

Jerry Settles 575-882-4331

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
364532-1	692-01	1	500	X				X						6-2-14	11:55
364532-2	692-01	1	250	X				X						6-2-14	11:55
364532-3	692-01	1	500	X				X							
364532-4	692-01	1	500	X				X							
364532-5	692-01	1	500	X				X							
364532-6	692-01	1	500	X				X							
364532-7	692-05	1	500	X				X						12:55	
364532-8	692-05	1	250	X				X						12:55	
364532-9	692-06	1	500	X				X						10:33	
364532-10	692-06	1	250	X				X						10:33	
364532-11	692-08	1	400	X				X						10:46	
364532-12	692-08	1	250	X				X						10:46	
364532-13	692-08	1	500	X				X						11:19	
364532-14	692-08	1	250	X				X						11:19	
364532-15	692-09	1	500	X				X						13:33	
364532-16	692-09	1	250	X				X						13:33	

Relinquished By: *July*  
Date: 6-2-14 14:45

Received By: *[Signature]*  
Date: 6-2-14 14:45

Received at Laboratory By: *[Signature]*  
Date: 6-2-14 14:45

Lab Use Only  
Intact  Y  N  
Headspace Y  N  
Temp 110.0 °C  
Log in Review  Y  N

Remarks:  
PAH 8270 (Low Level Analysis)  
PAH 8270C  
TX 1005 Extended (C35)  
TPH 418.1 / TX1005  
BTX 8021B/602  
MTBE 8021B/602

Dry Weight Basis Required  
TRRP Report Required

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
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Carrollton, Texas 75006  
Tel (972) 242-7750

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

Company Name: **DTH Petroleum** Phone #: **915-859-8150**  
 Address: **(Street, City, Zip)** Fax #:   
 Contact Person: **VICTOR AYALA** E-mail: **vayala@dthpump.com**  
 Invoice to:   
 (If different from above) **DEL CRO DAIRY, PO Box 1816, ANTHONY, TX 78802**  
 Project #: **441983** Project Name: **DEL CRO DAIRY**  
 Project Location (including state): **DEL CRO DAIRY, 1025 O'HARA, ANTHONY, NM**  
 Sampler Signature: **GLV**  
 PRESERVATIVE: **GLV**

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				METHOD				SAMPLING				
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE	TIME	
28581	692-07	1	500 X					X			X				6-24-12	12:33
28582	692-07	1	250 X					X			X				6-24-12	12:33

## 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 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"/>	PCB's 8082 / 608
<input type="checkbox"/>	Pesticides 8081 / 608
<input type="checkbox"/>	BOD, TSS, PH
<input type="checkbox"/>	Moisture Content
<input type="checkbox"/>	Cl, F, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity
<input type="checkbox"/>	Na, Ca, Mg, K, TDS, EC
<input checked="" type="checkbox"/>	NITRATE & NITROGEN EPA 3005.0
<input checked="" type="checkbox"/>	CHLORIDE EPA METHOD 3000
<input checked="" type="checkbox"/>	TDS SM 2540 C MB
<input checked="" type="checkbox"/>	TKN SM 4500 NORS C

Relinquished by: <b>July DTH</b>	Company: <b>DTH</b>	Date: <b>6-22-14</b>	Time: <b>11:45</b>	Received by: <b>[Signature]</b>	Company: <b>[Signature]</b>	Date: <b>6-24-14</b>	Time: <b>12:33</b>	INST <input type="checkbox"/>	OBS <input type="checkbox"/>	COR <input type="checkbox"/>
Relinquished by: <b>[Signature]</b>	Company: <b>Trace</b>	Date: <b>6-27-14</b>	Time: <b>16:36</b>	Received by: <b>[Signature]</b>	Company: <b>[Signature]</b>	Date: <b>6-27-14</b>	Time: <b>16:36</b>	INST <input type="checkbox"/>	OBS <input type="checkbox"/>	COR <input type="checkbox"/>

LAB USE ONLY  
 Intact  N  
 Headspace Y/N/NA  
 Log-Review

REMARKS:

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. ORIGINAL COPY

Carrier # **Cargary**





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

(Corrected Report)

Bruce Bonestroo  
 River Valley Dairy, LLC  
 1400 La Chuga Rd., Mesquite  
 P.O. Box 1929  
 Anthony, NM, 88021

Report Date: June 12, 2014

Work Order: 14052235



DP: 167  
 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
363806	167-04	water	2014-05-22	13:40	2014-05-22
363807	167-06	water	2014-05-22	13:14	2014-05-22

### Report Corrections (Work Order 14052235)

- 6/12/14: Reran and report TKN on samples 363806 and 363807.

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.

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.*

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2014-05-22 and assigned to work order 14052235. Samples for work order 14052235 were received intact at a temperature of 4.0 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	94932	2014-05-22 at 18:42	112284	2014-05-22 at 18:42
NO3 (IC)	E 300.0	94932	2014-05-22 at 18:42	112284	2014-05-22 at 18:42
TDS	SM 2540C	94957	2014-05-27 at 13:56	112315	2014-05-27 at 13:56
TKN	SM 4500-NH3 B,C	95140	2014-06-04 at 10:00	112528	2014-06-04 at 15:15

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 14052235 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: 363806 - 167-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1010</b>	<b>1010</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363806 - 167-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112284 Date Analyzed: 2014-05-22 Analyzed By: JR  
 Prep Batch: 94932 Sample Preparation: 2014-05-22 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>26.5</b>	<b>26.5</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363806 - 167-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112315 Date Analyzed: 2014-05-27 Analyzed By: MC  
 Prep Batch: 94957 Sample Preparation: 2014-05-27 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	<b>3600</b>	<b>3600</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363806 - 167-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112528 Date Analyzed: 2014-06-04 Analyzed By: CF  
 Prep Batch: 95140 Sample Preparation: 2014-06-04 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	<b>22.4</b>	<b>22.4</b>	<1.80	mg/L	1	1.80	10	1.8

**Sample: 363807 - 167-06**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 112284                              Date Analyzed: 2014-05-22                      Analyzed By: JR  
 Prep Batch: 94932                              Sample Preparation: 2014-05-22                      Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>726</b>	<b>726</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 363807 - 167-06**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 112284                              Date Analyzed: 2014-05-22                              Analyzed By: JR  
 Prep Batch: 94932                              Sample Preparation: 2014-05-22                              Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>22.8</b>	<b>22.8</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 363807 - 167-06**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 112315                              Date Analyzed: 2014-05-27                              Analyzed By: MC  
 Prep Batch: 94957                              Sample Preparation: 2014-05-27                              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	<b>2660</b>	<b>2660</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 363807 - 167-06**

Report Date: June 12, 2014

Work Order: 14052235  
River Valley Dairy, LLC

Page Number: 7 of 18  
1400 La Chuga Rd., Mesquite, NM

---

Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-06-04	Analyzed By:	CF
QC Batch:	112528	Sample Preparation:	2014-06-04	Prepared By:	CF
Prep Batch:	95140				

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.80</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

---

## Method Blanks

### Method Blank (1)

QC Batch: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112315  
Prep Batch: 94957Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112528  
Prep Batch: 95140Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: CF  
Prepared By: CF



Report Date: June 12, 2014

Work Order: 14052235  
River Valley Dairy, LLC

Page Number: 9 of 18  
1400 La Chuga Rd., Mesquite, NM

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 363801

QC Batch: 112315  
 Prep Batch: 94957

Date Analyzed: 2014-05-27  
 QC Preparation: 2014-05-27

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1080	1160	mg/L	1	7	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112284  
Prep Batch: 94932

Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.9	mg/L	1	25.0	<0.0238	104	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
Chloride		1	25.8	mg/L	1	25.0	<0.0238	103	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: 112284  
Prep Batch: 94932

Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22

Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	102	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
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	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: 112315  
Prep Batch: 94957

Date Analyzed: 2014-05-27  
QC Preparation: 2014-05-27

Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1000	mg/L	1	1000	<2.50	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	998	mg/L	1	1000	<2.50	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: 112528  
Prep Batch: 95140

Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04

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	44.1	mg/L	1	50.0	<1.80	88	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							
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.80	85	85 - 115	3	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: 363800QC Batch: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1780	mg/L	55.6	1390	312	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	1780	mg/L	55.6	1390	312	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: 363800QC Batch: 112284  
Prep Batch: 94932Date Analyzed: 2014-05-22  
QC Preparation: 2014-05-22Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	284	mg/L	55.6	278	<2.08	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	283	mg/L	55.6	278	<2.08	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: 363936QC Batch: 112528  
Prep Batch: 95140Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	80 - 120	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: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-05-22

### Standard (CCV-2)

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-05-22

### Standard (CCV-3)

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-05-22

### Standard (CCV-3)

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-05-22

**Standard (CCV-4)**

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.0	100	90 - 110	2014-05-22

**Standard (CCV-4)**

QC Batch: 112284

Date Analyzed: 2014-05-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-05-22

**Standard (ICV-1)**

QC Batch: 112528

Date Analyzed: 2014-06-04

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	mg/L	5.00	4.34	87	85 - 115	2014-06-04

**Standard (CCV-1)**

QC Batch: 112528

Date Analyzed: 2014-06-04

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	mg/L	5.00	5.04	101	85 - 115	2014-06-04



---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.**  
 Lubbock, TX 79424  
 Tel (806) 794-1296  
 Fax (806) 794-1298

Company Name: TraceAnalysis, Inc.  
 Phone #: 915-859-8150  
 Cell #: 915-859-8150

D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
 Contact Person: Victor Ayala  
 E-mail: vajala@dhpump.com

Project #: 88021  
 Project Name: River Valley Dairy, LLC  
 Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM  
 Project Address: River Valley Dairy, PO Box 1929, Anthony, NM 88021  
 Project Phone: 575-233-2061  
 Project E-mail: Project Name: River Valley Dairy, LLC  
 Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		Turn Around Time	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE	DATE			TIME
167-01		1		X				X	X	X	X	X	X	X			
167-04		1		X				X	X	X	X	X	X	X			
167-05		1		X				X	X	X	X	X	X	X			
167-06		1		X				X	X	X	X	X	X	X			
167-07		1		X				X	X	X	X	X	X	X			
167-08		1		X				X	X	X	X	X	X	X			
167-09		1		X				X	X	X	X	X	X	X			
167-10		1		X				X	X	X	X	X	X	X			
167-11		1		X				X	X	X	X	X	X	X			
167-12		1		X				X	X	X	X	X	X	X			
167-13		1		X				X	X	X	X	X	X	X			
167-14		1		X				X	X	X	X	X	X	X			
167-15		1		X				X	X	X	X	X	X	X			
167-16		1		X				X	X	X	X	X	X	X			
167-17		1		X				X	X	X	X	X	X	X			
167-18		1		X				X	X	X	X	X	X	X			
167-19		1		X				X	X	X	X	X	X	X			
167-20		1		X				X	X	X	X	X	X	X			
167-21		1		X				X	X	X	X	X	X	X			
167-22		1		X				X	X	X	X	X	X	X			
167-23		1		X				X	X	X	X	X	X	X			
167-24		1		X				X	X	X	X	X	X	X			
167-25		1		X				X	X	X	X	X	X	X			
167-26		1		X				X	X	X	X	X	X	X			
167-27		1		X				X	X	X	X	X	X	X			
167-28		1		X				X	X	X	X	X	X	X			
167-29		1		X				X	X	X	X	X	X	X			
167-30		1		X				X	X	X	X	X	X	X			
167-31		1		X				X	X	X	X	X	X	X			
167-32		1		X				X	X	X	X	X	X	X			
167-33		1		X				X	X	X	X	X	X	X			
167-34		1		X				X	X	X	X	X	X	X			
167-35		1		X				X	X	X	X	X	X	X			
167-36		1		X				X	X	X	X	X	X	X			
167-37		1		X				X	X	X	X	X	X	X			
167-38		1		X				X	X	X	X	X	X	X			
167-39		1		X				X	X	X	X	X	X	X			
167-40		1		X				X	X	X	X	X	X	X			
167-41		1		X				X	X	X	X	X	X	X			
167-42		1		X				X	X	X	X	X	X	X			
167-43		1		X				X	X	X	X	X	X	X			
167-44		1		X				X	X	X	X	X	X	X			
167-45		1		X				X	X	X	X	X	X	X			
167-46		1		X				X	X	X	X	X	X	X			
167-47		1		X				X	X	X	X	X	X	X			
167-48		1		X				X	X	X	X	X	X	X			
167-49		1		X				X	X	X	X	X	X	X			
167-50		1		X				X	X	X	X	X	X	X			
167-51		1		X				X	X	X	X	X	X	X			
167-52		1		X				X	X	X	X	X	X	X			
167-53		1		X				X	X	X	X	X	X	X			
167-54		1		X				X	X	X	X	X	X	X			
167-55		1		X				X	X	X	X	X	X	X			
167-56		1		X				X	X	X	X	X	X	X			
167-57		1		X				X	X	X	X	X	X	X			
167-58		1		X				X	X	X	X	X	X	X			
167-59		1		X				X	X	X	X	X	X	X			
167-60		1		X				X	X	X	X	X	X	X			
167-61		1		X				X	X	X	X	X	X	X			
167-62		1		X				X	X	X	X	X	X	X			
167-63		1		X				X	X	X	X	X	X	X			
167-64		1		X				X	X	X	X	X	X	X			
167-65		1		X				X	X	X	X	X	X	X			
167-66		1		X				X	X	X	X	X	X	X			
167-67		1		X				X	X	X	X	X	X	X			
167-68		1		X				X	X	X	X	X	X	X			
167-69		1		X				X	X	X	X	X	X	X			
167-70		1		X				X	X	X	X	X	X	X			
167-71		1		X				X	X	X	X	X	X	X			
167-72		1		X				X	X	X	X	X	X	X			
167-73		1		X				X	X	X	X	X	X	X			
167-74		1		X				X	X	X	X	X	X	X			
167-75		1		X				X	X	X	X	X	X	X			
167-76		1		X				X	X	X	X	X	X	X			
167-77		1		X				X	X	X	X	X	X	X			
167-78		1		X				X	X	X	X	X	X	X			
167-79		1		X				X	X	X	X	X	X	X			
167-80		1		X				X	X	X	X	X	X	X			
167-81		1		X				X	X	X	X	X	X	X			
167-82		1		X				X	X	X	X	X	X	X			
167-83		1		X				X	X	X	X	X	X	X			
167-84		1		X				X	X	X	X	X	X	X			
167-85		1		X				X	X	X	X	X	X	X			
167-86		1		X				X	X	X	X	X	X	X			
167-87		1		X				X	X	X	X	X	X	X			
167-88		1		X				X	X	X	X	X	X	X			
167-89		1		X				X	X	X	X	X	X	X			
167-90		1		X				X	X	X	X	X	X	X			
167-91		1		X				X	X	X	X	X	X	X			
167-92		1		X				X	X	X	X	X	X	X			
167-93		1		X				X	X	X	X	X	X	X			
167-94		1		X				X	X	X	X	X	X	X			
167-95		1		X				X	X	X	X	X	X	X			
167-96		1		X				X	X	X	X	X	X	X			
167-97		1		X				X	X	X	X	X	X	X			
167-98		1		X				X	X	X	X	X	X	X			
167-99		1		X				X	X	X	X	X	X	X			
167-100		1		X				X	X	X	X	X	X	X			

ANALYSIS REQUEST

TX 1005 Extended (C35)

TPH 418.1 / TX1005

BTEX 8021B/602

MTRB 8021B/602

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

Remarks: ICE

Lab Use Only

Intac  Y  N

Headspace  Y  N

Temp 12.2 41.4

Log-In Review [Signature]

Received By: [Signature] Date: 5-22-14 Time: 14:10

Relinquished By: [Signature] Date: 5-22-14 Time: 16:30

Received at Laboratory By: [Signature] Date: 5-22-14 Time: 14:20

Relinquished By: [Signature] Date: 5-22-14 Time: 16:30



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
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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

Linda Armstrong  
 Dona Ana Dairies

Report Date: June 12, 2014

P.O. Box 10  
 Mesquite, NM, 88048

Work Order: 14060438



Project Name: Dona Ana Dairies

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
364701	DAD-19	water	2014-06-04	11:20	2014-06-04
364702	DAD-08	water	2014-06-04	12:30	2014-06-04
364703	DAD-09	water	2014-06-04	14:08	2014-06-04
364704	DAD-21	water	2014-06-04	15:00	2014-06-04

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.

This report consists of a total of 20 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  
 Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Dona Ana Dairies were received by TraceAnalysis, Inc. on 2014-06-04 and assigned to work order 14060438. Samples for work order 14060438 were received intact at a temperature of 15 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	95166	2014-06-04 at 17:53	112558	2014-06-04 at 17:53
NO3 (IC)	E 300.0	95166	2014-06-04 at 17:53	112558	2014-06-04 at 17:53
TDS	SM 2540C	95190	2014-06-05 at 15:20	112591	2014-06-05 at 15:20
TKN	SM 4500-NH3 B,C	95322	2014-06-11 at 10:30	112739	2014-06-11 at 15:30
TKN	SM 4500-NH3 B,C	95352	2014-06-12 at 09:30	112769	2014-06-12 at 13:40

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 14060438 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: 364701 - DAD-19

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112558 Date Analyzed: 2014-06-04 Analyzed By: JR  
 Prep Batch: 95166 Sample Preparation: 2014-06-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>914</b>	<b>914</b>	<1.19	mg/L	50	1.19	2.5	0.0238

## Sample: 364701 - DAD-19

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112558 Date Analyzed: 2014-06-04 Analyzed By: JR  
 Prep Batch: 95166 Sample Preparation: 2014-06-04 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	<b>54.3</b>	<b>54.3</b>	<0.374	mg/L	10	0.374	0.5	0.0374

## Sample: 364701 - DAD-19

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112591 Date Analyzed: 2014-06-05 Analyzed By: MC  
 Prep Batch: 95190 Sample Preparation: 2014-06-05 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	<b>3220</b>	<b>3220</b>	<2.50	mg/L	1	2.50	2.5	2.5

## Sample: 364701 - DAD-19

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112739 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95322 Sample Preparation: 2014-06-11 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	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364702 - DAD-08**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112558 Date Analyzed: 2014-06-04 Analyzed By: JR  
 Prep Batch: 95166 Sample Preparation: 2014-06-04 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>2210</b>	<b>2210</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364702 - DAD-08**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112558 Date Analyzed: 2014-06-04 Analyzed By: JR  
 Prep Batch: 95166 Sample Preparation: 2014-06-04 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>55.8</b>	<b>55.8</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 364702 - DAD-08**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112591 Date Analyzed: 2014-06-05 Analyzed By: MC  
 Prep Batch: 95190 Sample Preparation: 2014-06-05 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	<b>5840</b>	<b>5840</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364702 - DAD-08**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112769 Date Analyzed: 2014-06-12 Analyzed By: CF  
 Prep Batch: 95352 Sample Preparation: 2014-06-12 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364703 - DAD-09**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112558 Date Analyzed: 2014-06-04 Analyzed By: JR  
 Prep Batch: 95166 Sample Preparation: 2014-06-04 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>440</b>	<b>440</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 364703 - DAD-09**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112558 Date Analyzed: 2014-06-04 Analyzed By: JR  
 Prep Batch: 95166 Sample Preparation: 2014-06-04 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>3.14</b>	<b>3.14</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364703 - DAD-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112591 Date Analyzed: 2014-06-05 Analyzed By: MC  
 Prep Batch: 95190 Sample Preparation: 2014-06-05 Prepared By: MC

*continued . . .*

*sample 364703 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>1580</b>	<b>1580</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364703 - DAD-09**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112769

Prep Batch: 95352

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-06-12

Sample Preparation: 2014-06-12

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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364704 - DAD-21**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112558

Prep Batch: 95166

Analytical Method: E 300.0

Date Analyzed: 2014-06-04

Sample Preparation: 2014-06-04

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	<b>532</b>	<b>532</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364704 - DAD-21**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112558

Prep Batch: 95166

Analytical Method: E 300.0

Date Analyzed: 2014-06-04

Sample Preparation: 2014-06-04

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	<b>15.0</b>	<b>15.0</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364704 - DAD-21**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112591 Date Analyzed: 2014-06-05 Analyzed By: MC  
 Prep Batch: 95190 Sample Preparation: 2014-06-05 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	<b>2180</b>	<b>2180</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364704 - DAD-21**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112769 Date Analyzed: 2014-06-12 Analyzed By: CF  
 Prep Batch: 95352 Sample Preparation: 2014-06-12 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

---

## Method Blanks

### Method Blank (1)

QC Batch: 112558  
Prep Batch: 95166Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.0238

### Method Blank (1)

QC Batch: 112558  
Prep Batch: 95166Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112591  
Prep Batch: 95190Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112739  
Prep Batch: 95322Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

**Method Blank (1)**

QC Batch: 112769

Date Analyzed: 2014-06-12

Analyzed By: CF

Prep Batch: 95352

QC Preparation: 2014-06-12

Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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# Duplicates

**Duplicate (1)**    Duplicated Sample: 364593

QC Batch: 112591  
Prep Batch: 95190

Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1740	1640	mg/L	1	6	10

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 112558  
Prep Batch: 95166Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.7	mg/L	1	25.0	<0.0238	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.8	mg/L	1	25.0	<0.0238	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: 112558  
Prep Batch: 95166Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.89	mg/L	1	5.00	<0.0374	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.92	mg/L	1	5.00	<0.0374	98	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: 112591  
Prep Batch: 95190Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	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: 112739  
Prep Batch: 95322

Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 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: 112769  
Prep Batch: 95352

Date Analyzed: 2014-06-12  
QC Preparation: 2014-06-12

Analyzed By: CF  
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	46.9	mg/L	1	50.0	<1.80	94	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	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: 364703QC Batch: 112558  
Prep Batch: 95166Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1840	mg/L	55.6	1390	440	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
Chloride		1	1840	mg/L	55.6	1390	440	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: 364703QC Batch: 112558  
Prep Batch: 95166Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	275	mg/L	55.6	278	3.14	98	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	276	mg/L	55.6	278	3.14	98	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: 364701QC Batch: 112739  
Prep Batch: 95322Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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							
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	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: 364704

QC Batch: 112769  
Prep Batch: 95352

Date Analyzed: 2014-06-12  
QC Preparation: 2014-06-12

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	80 - 120	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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## Calibration Standards

**Standard (CCV-1)**

QC Batch: 112558

Date Analyzed: 2014-06-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-06-04

**Standard (CCV-1)**

QC Batch: 112558

Date Analyzed: 2014-06-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-06-04

**Standard (CCV-2)**

QC Batch: 112558

Date Analyzed: 2014-06-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-06-04

**Standard (CCV-2)**

QC Batch: 112558

Date Analyzed: 2014-06-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-06-04

**Standard (CCV-3)**

QC Batch: 112558

Date Analyzed: 2014-06-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-06-04

**Standard (CCV-3)**

QC Batch: 112558

Date Analyzed: 2014-06-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-06-04

**Standard (ICV-1)**

QC Batch: 112739

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.48	90	85 - 115	2014-06-11

**Standard (CCV-1)**

QC Batch: 112739

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.90	98	85 - 115	2014-06-11

**Standard (ICV-1)**

QC Batch: 112769

Date Analyzed: 2014-06-12

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	mg/L	5.00	4.34	87	85 - 115	2014-06-12

**Standard (CCV-1)**

QC Batch: 112769

Date Analyzed: 2014-06-12

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	mg/L	5.00	4.34	87	85 - 115	2014-06-12

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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	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

LAB Order ID # 14060438

Page 1 of 1

# Trace Analysis, Inc.

email: lab@traceanalysis.com

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

Brandon & Clark  
3403 Industrial Blvd.  
Hobbs, NM 88240  
Tel (575) 392-7561  
Fax (575) 392-4808

Company Name: **D.H. Petroleum**

Address: (Street, City, ZIP)

1221 Tower Trail Ln El Paso TX 799

Phone #: 915-859-8157

ANALYSIS REQUEST  
(Circle or Specify Method No.)

Contact Person: **Victor Ayala**

Invoice to: **Vacuous Davies**

E-mail: **ayala@dhpump.com**

(if different from above) **Linda Armstrong**

Project Name: **Dona Ana Conservatives**

Project #: **441968**

Project Location (including state): **Dona Ana County, NM**

Project Location (including state): **Dona Ana County, NM**  
Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX						PRESERVATIVE METHOD				SAMPLING		DATE	TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE				
347014	DAD-19	1	500	X							X	X	X	X		6-4-14	11:20
↓-a	DAD-19	1	250	X							X	X	X	X		6-4-14	11:20
347021	DAD-08	1	500	X							X	X	X	X			12:30
↓-b	DAD-08	1	250	X							X	X	X	X			12:30
34700-1	DAD-09	1	500	X							X	X	X	X			14:08
↓-2	DAD-09	1	250	X							X	X	X	X			14:08
34700-4	DAD-21	1	500	X							X	X	X	X			15:00
↓-2	DAD-21	1	250	X							X	X	X	X			15:00

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  
 Nitrates EPA 300.0  
 TKN SM 4600 NORGIC  
 Chloride EPA 300.0  
 Total Dissolved Solids SM 2540C  
 Turn Around Time if different from standard

Relinquished by: *[Signature]* Company: **D.H.** Date: **6-4-14** Time: **1545**

Received by: *[Signature]* Company: **D.H.** Date: **6-4-14** Time: **1545**

Relinquished by: *[Signature]* Company: **D.H.** Date: **6-4-14** Time: **1545**

Received by: *[Signature]* Company: **D.H.** Date: **6-4-14** Time: **1545**

Relinquished by: *[Signature]* Company: **D.H.** Date: **6-4-14** Time: **1545**

Received by: *[Signature]* Company: **D.H.** Date: **6-4-14** Time: **1545**



**TraceAnalysis, Inc.**  
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BioAquatic Testing  
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 Carrollton, Texas 75006  
 Tel (972) 242-7750  
 Fax (972) 242-7750

Company Name: **D&H Petroleum** Phone #: **915-859-8157**  
 Address: (Street, City, Zip) **1221 Tower Trail Ln El Paso Tx 799** Fax #:  
 Contact Person: **Victor Ayala** E-mail: **vayala@dhump.com**  
 Invoice to: (If different from above) **Varvov Daries**  
 Project #: **441968** Project Name: **Linda Armstrong 575-233-3620**  
 Project Location (including state): **Dona Ana County, NM** Sampler Signatures: **Dona Ana Consortium**

**ANALYSIS REQUEST (Circle or Specify Method No.)**

LAB #	FIELD CODE	# CONTAINERS	VOLUME / AMOUNT	MATRIX	PRESERVATIVE METHOD	DATE	SAMPLING TIME	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	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	Nitrates EPA 300.0	TKN 5M 4600 NORS-C	Chloride EPA 300.0	Total Dissolved Solids 5M 2540C	Turn Around Time if different from standard	Hold				
364701	DAD-19	1	500	X	X	X	6-4-14 11:20																													
364702	DAD-19	1	250	X	X	X	6-4-14 11:20																													
364702	DAD-08	1	500	X	X	X	1230																													
364702	DAD-08	1	250	X	X	X	1230																													
364700-1	DAD-09	1	500	X	X	X	1408																													
364700-1	DAD-09	1	250	X	X	X	1408																													
364700-1	DAD-21	1	500	X	X	X	1500																													
364700-1	DAD-21	1	250	X	X	X	1500																													

**LAB USE ONLY**

Relinquished by: *[Signature]* Company: **D&H** Date: **6-4-14** Time: **1545**  
 Received by: *[Signature]* Company: **D&H** Date: **6-4-14** Time: **1545**

Relinquished by: *[Signature]* Company: **D&H** Date: **6-4-14** Time: **1545**  
 Received by: *[Signature]* Company: **D&H** Date: **6-4-14** Time: **1545**

Relinquished by: *[Signature]* Company: **D&H** Date: **6-4-14** Time: **1545**  
 Received by: *[Signature]* Company: **D&H** Date: **6-4-14** Time: **1545**

REMARKS:

Dry Weight Basis Required   
 TRRP Report Required   
 Check If Special Reporting Limits Are Needed

Carrier # **Carry**



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

(Corrected Report)

Jerry Settles  
 Del Oro Dairy, LLC.  
 1025 East O'Hara  
 P.O. Box 1846  
 Anthony, NM, 88021

Report Date: June 13, 2014

Work Order: 14060229



DP: 692  
 Project Location: 1025 East OHara, Anthony, NM  
 Project Name: Del Oro 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
364532	692-01	water	2014-06-02	11:55	2014-06-02
364533	692-05	water	2014-06-02	12:55	2014-06-02
364534	692-06	water	2014-06-02	10:33	2014-06-02
364535	692 Lagoon	water	2014-06-02	10:46	2014-06-02
364536	692-08	water	2014-06-02	11:19	2014-06-02
364537	692-09	water	2014-06-02	13:33	2014-06-02
364538	692-07	water	2014-06-02	12:33	2014-06-02

### Report Corrections (Work Order 14060229)

- 6/13/14: Reran Chloride and Nitrate on sample 364532.

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.

This report consists of a total of 28 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 "Michael Abel". The signature is written in a cursive, slightly slanted style.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2014-06-02 and assigned to work order 14060229. Samples for work order 14060229 were received intact at a temperature of 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	95106	2014-06-02 at 19:57	112492	2014-06-02 at 19:57
NO3 (IC)	E 300.0	95106	2014-06-02 at 19:57	112492	2014-06-02 at 19:57
TDS	SM 2540C	95109	2014-06-03 at 13:15	112495	2014-06-03 at 13:15
TDS	SM 2540C	95154	2014-06-04 at 14:40	112546	2014-06-04 at 14:40
TDS	SM 2540C	95190	2014-06-05 at 15:20	112591	2014-06-05 at 15:20
TKN	SM 4500-NH3 B,C	95253	2014-06-09 at 10:00	112660	2014-06-09 at 14:40
TKN	SM 4500-NH3 B,C	95321	2014-06-11 at 10:30	112738	2014-06-11 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 14060229 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.

The temperature of the Cold Box for storing samples was between 6 and 15.0 degrees C between June 8th and June 9th, 2014. We do not believe this will affect your TKN results.

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: 364532 - 692-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>612</b>	<b>612</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364532 - 692-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 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	<b>98.2</b>	<b>98.2</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 364532 - 692-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112495 Date Analyzed: 2014-06-03 Analyzed By: MC  
 Prep Batch: 95109 Sample Preparation: 2014-06-03 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	<b>2660</b>	<b>2660</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364532 - 692-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112660 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95253 Sample Preparation: 2014-06-09 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	J	2	<b>4.20</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364533 - 692-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>427</b>	<b>427</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 364533 - 692-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>6.50</b>	<b>6.50</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364533 - 692-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112495 Date Analyzed: 2014-06-03 Analyzed By: MC  
 Prep Batch: 95109 Sample Preparation: 2014-06-03 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	<b>1460</b>	<b>1460</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364533 - 692-05**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 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	J	2	<b>3.50</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364534 - 692-06**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>453</b>	<b>453</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 364534 - 692-06**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>3.90</b>	<b>3.90</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364534 - 692-06**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112495 Date Analyzed: 2014-06-03 Analyzed By: MC  
 Prep Batch: 95109 Sample Preparation: 2014-06-03 Prepared By: MC

*continued . . .*

*sample 364534 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>1500</b>	<b>1500</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364534 - 692-06**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112738

Prep Batch: 95321

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-06-11

Sample Preparation: 2014-06-11

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	<b>3.50</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364535 - 692 Lagoon**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112492

Prep Batch: 95106

Analytical Method: E 300.0

Date Analyzed: 2014-06-02

Sample Preparation: 2014-06-02

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	<b>22700</b>	<b>22700</b>	<23.8	mg/L	1000	23.8	2.5	0.0238

**Sample: 364535 - 692 Lagoon**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112492

Prep Batch: 95106

Analytical Method: E 300.0

Date Analyzed: 2014-06-02

Sample Preparation: 2014-06-02

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	u	1	<0.748	<10.0	<0.748	mg/L	20	0.748	0.5	0.0374

**Sample: 364535 - 692 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112591 Date Analyzed: 2014-06-05 Analyzed By: MC  
 Prep Batch: 95190 Sample Preparation: 2014-06-05 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	1	<b>127000</b>	<b>127000</b>	<250	mg/L	100	250	2.5	2.5

**Sample: 364535 - 692 Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 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	<b>448</b>	<b>448</b>	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364536 - 692-08**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>435</b>	<b>435</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 364536 - 692-08**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 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	<b>4.70</b>	<b>4.70</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364536 - 692-08**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112546 Date Analyzed: 2014-06-04 Analyzed By: MC  
 Prep Batch: 95154 Sample Preparation: 2014-06-04 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	<b>1300</b>	<b>1300</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364536 - 692-08**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 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	<b>4.90</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364537 - 692-09**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

*continued ...*

*sample 364537 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>459</b>	<b>459</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 364537 - 692-09**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 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	<b>6.81</b>	<b>6.81</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364537 - 692-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112546 Date Analyzed: 2014-06-04 Analyzed By: MC  
 Prep Batch: 95154 Sample Preparation: 2014-06-04 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	<b>1300</b>	<b>1300</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364537 - 692-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364538 - 692-07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>527</b>	<b>527</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364538 - 692-07**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112492 Date Analyzed: 2014-06-02 Analyzed By: JR  
 Prep Batch: 95106 Sample Preparation: 2014-06-02 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	<b>3.20</b>	<b>3.20</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364538 - 692-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112546 Date Analyzed: 2014-06-04 Analyzed By: MC  
 Prep Batch: 95154 Sample Preparation: 2014-06-04 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	<b>1590</b>	<b>1590</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364538 - 692-07**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112738 Date Analyzed: 2014-06-11 Analyzed By: CF  
 Prep Batch: 95321 Sample Preparation: 2014-06-11 Prepared By: CF

*continued ...*

sample 364538 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
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	<b>2.80</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.29	mg/L	0.0238

### Method Blank (1)

QC Batch: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112495  
Prep Batch: 95109Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112546  
Prep Batch: 95154Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: MC  
Prepared By: MC



---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

**Method Blank (1)**QC Batch: 112591  
Prep Batch: 95190Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05Analyzed By: MC  
Prepared By: MC

---

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

---

**Method Blank (1)**QC Batch: 112660  
Prep Batch: 95253Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

**Method Blank (1)**QC Batch: 112738  
Prep Batch: 95321Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

# Duplicates

**Duplicate (1)** Duplicated Sample: 364534QC Batch: 112495  
Prep Batch: 95109Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1540	1500	mg/L	1	3	10

**Duplicate (1)** Duplicated Sample: 364588QC Batch: 112546  
Prep Batch: 95154Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2220	2260	mg/L	1	2	10

**Duplicate (1)** Duplicated Sample: 364593QC Batch: 112591  
Prep Batch: 95190Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1740	1640	mg/L	1	6	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.3	mg/L	1	25.0	<0.0238	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.2	mg/L	1	25.0	<0.0238	97	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: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.80	mg/L	1	5.00	<0.0374	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.78	mg/L	1	5.00	<0.0374	96	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: 112495  
Prep Batch: 95109Date Analyzed: 2014-06-03  
QC Preparation: 2014-06-03Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	1020	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	90 - 110	1	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: 112546  
Prep Batch: 95154

Date Analyzed: 2014-06-04  
QC Preparation: 2014-06-04

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	993	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	995	mg/L	1	1000	<2.50	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: 112591  
Prep Batch: 95190

Date Analyzed: 2014-06-05  
QC Preparation: 2014-06-05

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	1010	mg/L	1	1000	<2.50	101	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	1010	mg/L	1	1000	<2.50	101	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: 112660  
Prep Batch: 95253

Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09

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	45.5	mg/L	1	50.0	<1.80	91	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 Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	85 - 115	2

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: 112738  
Prep Batch: 95321

Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11

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	44.1	mg/L	1	50.0	<1.80	88	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 Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	85 - 115	2

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: 364533QC Batch: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1820	mg/L	55.6	1390	427	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							
Chloride		1	1800	mg/L	55.6	1390	427	99	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: 364533QC Batch: 112492  
Prep Batch: 95106Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: JR  
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	276	mg/L	55.6	278	6.5	97	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	273	mg/L	55.6	278	6.5	96	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: 364532QC Batch: 112660  
Prep Batch: 95253Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	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							
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	<1.80	92	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: 364591

QC Batch: 112738  
Prep Batch: 95321

Date Analyzed: 2014-06-11  
QC Preparation: 2014-06-11

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	80 - 120	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: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.3	97	90 - 110	2014-06-02

### Standard (CCV-1)

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.81	96	90 - 110	2014-06-02

### Standard (CCV-2)

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-06-02

### Standard (CCV-2)

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.84	97	90 - 110	2014-06-02



**Standard (CCV-3)**

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-06-02

**Standard (CCV-3)**

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-06-02

**Standard (CCV-4)**

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-06-02

**Standard (CCV-4)**

QC Batch: 112492

Date Analyzed: 2014-06-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.87	97	90 - 110	2014-06-02

**Standard (ICV-1)**

QC Batch: 112660

Date Analyzed: 2014-06-09

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	mg/L	5.00	4.62	92	85 - 115	2014-06-09

**Standard (CCV-1)**

QC Batch: 112660

Date Analyzed: 2014-06-09

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	mg/L	5.00	5.18	104	85 - 115	2014-06-09

**Standard (ICV-1)**

QC Batch: 112738

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.48	90	85 - 115	2014-06-11

**Standard (CCV-1)**

QC Batch: 112738

Date Analyzed: 2014-06-11

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	mg/L	5.00	4.90	98	85 - 115	2014-06-11

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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

## Result Comments

- 1 Sample was a oily sludge in thickness. Had to dilute sample – 1ml/100 ml dh2o cylinder.

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

5701 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) 585-4844

Company Name:

D&H Petroleum & Environmental Services

Address: (Street, City, Zip)

1221 Tower Trail Ln, El Paso TX 79907

Contact Person:

Victor Ayala

Phone #:

Cell #:

Fax #:

E-mail:

915-859-8150

915-859-8150

915-859-8150

915-859-8150

915-859-8150

Invoice to (if different from above):

Del Oro Dairy, PO Box 1846, Anthony, TX 88021

Project #:

441983

Project Name:

Del Oro Dairy

Project Location (including state):

Del Oro Dairy, 1025 East O'Hara, Anthony, NM

Sampler Signature:

*July*

Jerry Settles 575-882-4331

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
364533-1	692-01	1	500	X				X						6-2-14	11:55
364533-2	692-01	1	250	X				X						6-2-14	11:55
364533-3	692-01	1	500	X				X							
364533-4	692-01	1	500	X				X							
364533-5	692-01	1	500	X				X							
364533-6	692-05	1	500	X				X						12:55	
364533-7	692-05	1	250	X				X						12:55	
364533-8	692-06	1	500	X				X						10:33	
364533-9	692-06	1	250	X				X						10:33	
364533-10	692-06	1	400	X				X						10:46	
364533-11	692-06	1	250	X				X						10:46	
364533-12	692-08	1	500	X				X						11:19	
364533-13	692-08	1	250	X				X						11:19	
364533-14	692-08	1	250	X				X						13:33	
364533-15	692-09	1	250	X				X						13:33	

Relinquished By: *July*  
Date: 6-2-14 14:45

Received By: *[Signature]*  
Date: 6-2-14 14:45

Received at Laboratory By: *[Signature]*  
Date: 6-2-14 14:45

Lab Use Only  
Intact  Y  N  
Headspace Y  N  
Temp 110.0  Y  N  
Log in Review  Y  N

Remarks:  
PAH 8270 (Low Level Analysis)  
PAH 8270C  
TX 1005 Extended (C35)  
TPH 418.1 / TX1005  
BTX 8021B/602  
MTBE 8021B/602

PHOSPHORUS SM 4500  
Total Kjeldahl Nitrogen SM 4500 NORG C  
Total Dissolved Solids SM 2540 C MOD  
Sulfate EPA Method 300.0  
Chloride EPA Method 300.0  
Nitrate as Nitrogen EPA 300.0  
Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7

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  
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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)

George Segura  
 Big Sky Dairy  
 17800 Stern Drive  
 P.O. Box 10  
 Mesquite, NM, 88048

Report Date: June 17, 2014

Work Order: 14052928



DP: 833  
 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
364336	833 Lagoon	water	2014-05-29	11:03	2014-05-29
364337	833-4	water	2014-05-29	09:20	2014-05-29
364338	833-7	water	2014-05-29	12:23	2014-05-29
364339	833-6	water	2014-05-29	14:18	2014-05-29
364340	833-5	water	2014-05-29	10:53	2014-05-29
364341	833-10	water	2014-05-29	13:31	2014-05-29

### Report Corrections (Work Order 14052928)

- 6/17/14: Reran and reported TKN on sample 364337.

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.

This report consists of a total of 24 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 "Michael Abel". The signature is written in a cursive style with a large, sweeping initial 'M'.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2014-05-29 and assigned to work order 14052928. Samples for work order 14052928 were received intact at a temperature of 1.0 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	95036	2014-05-29 at 18:53	112416	2014-05-29 at 18:53
NO3 (IC)	E 300.0	95036	2014-05-29 at 18:53	112416	2014-05-29 at 18:53
TDS	SM 2540C	95089	2014-06-02 at 12:20	112475	2014-06-02 at 12:20
TKN	SM 4500-NH3 B,C	95251	2014-06-09 at 10:00	112659	2014-06-09 at 14:30
TKN	SM 4500-NH3 B,C	95421	2014-06-16 at 09:40	112859	2014-06-16 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 14052928 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.

The temperature of the Cold Box for storing samples was between 6 and 15.0 degrees C between June 8th and June 9th, 2014. We do not believe this will affect your TKN results.

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: 364336 - 833 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>845</b>	<b>845</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364336 - 833 Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 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	<b>4.53</b>	<b>4.53</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364336 - 833 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 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	<b>5710</b>	<b>5710</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364336 - 833 Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112659 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95251 Sample Preparation: 2014-06-09 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	<b>357</b>	<b>357</b>	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364337 - 833-4**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>780</b>	<b>780</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364337 - 833-4**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>23.5</b>	<b>23.5</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364337 - 833-4**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 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	<b>2670</b>	<b>2670</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364337 - 833-4**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112859 Date Analyzed: 2014-06-16 Analyzed By: CF  
 Prep Batch: 95421 Sample Preparation: 2014-06-16 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	<b>5.60</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364338 - 833-7**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>1380</b>	<b>1380</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364338 - 833-7**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>87.0</b>	<b>87.0</b>	<0.374	mg/L	10	0.374	0.5	0.0374

**Sample: 364338 - 833-7**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 Prepared By: MC

*continued . . .*

*sample 364338 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>4760</b>	<b>4760</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364338 - 833-7**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112659

Prep Batch: 95251

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-06-09

Sample Preparation: 2014-06-09

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	<b>4.90</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364339 - 833-6**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112416

Prep Batch: 95036

Analytical Method: E 300.0

Date Analyzed: 2014-05-29

Sample Preparation: 2014-05-29

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	<b>760</b>	<b>760</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364339 - 833-6**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112416

Prep Batch: 95036

Analytical Method: E 300.0

Date Analyzed: 2014-05-29

Sample Preparation: 2014-05-29

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	<b>26.5</b>	<b>26.5</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364339 - 833-6**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 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	<b>2460</b>	<b>2460</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364339 - 833-6**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112659 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95251 Sample Preparation: 2014-06-09 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	<b>3.50</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364340 - 833-5**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>1070</b>	<b>1070</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364340 - 833-5**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>15.6</b>	<b>15.6</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364340 - 833-5**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 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	<b>3130</b>	<b>3130</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364340 - 833-5**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112659 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95251 Sample Preparation: 2014-06-09 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	J	2	<b>4.20</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364341 - 833-10**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 Prepared By: JR

*continued ...*

*sample 364341 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>667</b>	<b>667</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364341 - 833-10**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112416 Date Analyzed: 2014-05-29 Analyzed By: JR  
 Prep Batch: 95036 Sample Preparation: 2014-05-29 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	<b>3.20</b>	<b>3.20</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364341 - 833-10**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112475 Date Analyzed: 2014-06-02 Analyzed By: MC  
 Prep Batch: 95089 Sample Preparation: 2014-06-02 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	<b>2670</b>	<b>2670</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364341 - 833-10**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112659 Date Analyzed: 2014-06-09 Analyzed By: CF  
 Prep Batch: 95251 Sample Preparation: 2014-06-09 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	<b>2.10</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

## Method Blanks

### Method Blank (1)

QC Batch: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112475  
Prep Batch: 95089Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112659  
Prep Batch: 95251Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

**Method Blank (1)**

QC Batch: 112859  
Prep Batch: 95421

Date Analyzed: 2014-06-16  
QC Preparation: 2014-06-16

Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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# Duplicates

Duplicate (1) Duplicated Sample: 364337

QC Batch: 112475  
Prep Batch: 95089

Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2660	2670	mg/L	1	0	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	24.3	mg/L	1	25.0	<0.0238	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	24.3	mg/L	1	25.0	<0.0238	97	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: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.82	mg/L	1	5.00	<0.0374	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.81	mg/L	1	5.00	<0.0374	96	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: 112475  
Prep Batch: 95089Date Analyzed: 2014-06-02  
QC Preparation: 2014-06-02Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1	995	mg/L	1	1000	<2.50	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	991	mg/L	1	1000	<2.50	99	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: 112659  
Prep Batch: 95251

Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09

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	42.7	mg/L	1	50.0	<1.80	85	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							
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	85 - 115	6	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: 112859  
Prep Batch: 95421

Date Analyzed: 2014-06-16  
QC Preparation: 2014-06-16

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	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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: 364341QC Batch: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2130	mg/L	55.6	1390	667	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
Chloride		1	2120	mg/L	55.6	1390	667	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: 364341QC Batch: 112416  
Prep Batch: 95036Date Analyzed: 2014-05-29  
QC Preparation: 2014-05-29Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	270	mg/L	55.6	278	3.2	96	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	268	mg/L	55.6	278	3.2	95	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: 364406QC Batch: 112659  
Prep Batch: 95251Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	46.2	mg/L	1	50.0	4.2	84	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							
Total Kjeldahl Nitrogen - N		2	51.8	mg/L	1	50.0	4.2	95	80 - 120	11	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: 365335

QC Batch: 112859  
Prep Batch: 95421

Date Analyzed: 2014-06-16  
QC Preparation: 2014-06-16

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	4.9	81	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							
Total Kjeldahl Nitrogen - N		2	49.0	mg/L	1	50.0	4.9	88	80 - 120	7	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: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-05-29

### Standard (CCV-1)

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.84	97	90 - 110	2014-05-29

### Standard (CCV-2)

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-05-29

### Standard (CCV-2)

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-05-29

**Standard (CCV-3)**

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-05-29

**Standard (CCV-3)**

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-05-29

**Standard (CCV-4)**

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-05-29

**Standard (CCV-4)**

QC Batch: 112416

Date Analyzed: 2014-05-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2014-05-29

**Standard (ICV-1)**

QC Batch: 112659

Date Analyzed: 2014-06-09

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	mg/L	5.00	4.62	92	85 - 115	2014-06-09

**Standard (CCV-1)**

QC Batch: 112659

Date Analyzed: 2014-06-09

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	mg/L	5.00	5.04	101	85 - 115	2014-06-09

**Standard (ICV-1)**

QC Batch: 112859

Date Analyzed: 2014-06-16

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	mg/L	5.00	4.62	92	85 - 115	2014-06-16

**Standard (CCV-1)**

QC Batch: 112859

Date Analyzed: 2014-06-16

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	mg/L	5.00	4.76	95	85 - 115	2014-06-16

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

Company Name: **14052988 TraceAnalysis, Inc.**  
 D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: **vavala@dhpump.com**  
 Victor Ayala

Phone #: 915-859-8150  
 Cell #:  
 Fax #:  
 E-mail:

Page 1 of 1

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # **14052988**

Project Name: **George Segura 575-233-3620**  
 Big Sky Dairy  
 Sampler Signature: *[Signature]*  
 Project Location (including state):  
 Big Sky Dairy, 17800 Stern Drive, Mesquite, NM

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	X
Nitrates EPA 300	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Hold	

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
<del>833-1</del>	<del>LAGOON</del>	<del>1</del>	<del>500</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>5-29-14</del>	<del>11:03</del>
<del>833-2</del>	<del>LAGOON</del>	<del>1</del>	<del>250</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>5-29-14</del>	<del>11:03</del>
<del>833-3</del>	<del>LAGOON</del>	<del>1</del>	<del>500</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>5-29-14</del>	<del>9:20</del>
<del>833-4</del>	<del>LAGOON</del>	<del>1</del>	<del>500</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>5-29-14</del>	<del>9:20</del>
<del>833-5</del>	<del>LAGOON</del>	<del>1</del>	<del>500</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>5-29-14</del>	<del>12:23</del>
<del>833-6</del>	<del>LAGOON</del>	<del>1</del>	<del>500</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>5-29-14</del>	<del>14:18</del>
<del>833-7</del>	<del>LAGOON</del>	<del>1</del>	<del>250</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>5-29-14</del>	<del>14:18</del>
<del>833-8</del>	<del>LAGOON</del>	<del>1</del>	<del>500</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>5-29-14</del>	<del>10:53</del>
<del>833-9</del>	<del>LAGOON</del>	<del>1</del>	<del>250</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>5-29-14</del>	<del>10:53</del>
<del>833-10</del>	<del>LAGOON</del>	<del>1</del>	<del>500</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>5-29-14</del>	<del>13:31</del>
<del>833-11</del>	<del>LAGOON</del>	<del>1</del>	<del>250</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>5-29-14</del>	<del>13:31</del>

Relinquished By: **July** Date: **5-29-14** Time: **14:36**  
 Received By: **MRC TRAP** Date: **5-29-14** Time: **14:36**  
 Relinquished By: **MRC TRAP** Date: **5/29/14** Time: **16:30**  
 Received By: **MRC TRAP** Date: **5-29-14** Time: **14:36**

Lab Use Only  
 Intact  /   
 Headspace Y / N  
 Temp **10.1 / 0**  
 Log-in Review **DPH**  
 Remarks: **on ice**  
**TRN analysis in Lab**  
**103 No 9/203**  
**AS**  
**48891826**





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
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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

Linda Armstrong  
Dona Ana Dairies

Report Date: June 17, 2014

P.O. Box 10  
Mesquite, NM, 88048

Work Order: 14060933



Project Name: Dona Ana Dairies

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
365165	DAD-03	water	2014-06-09	09:16	2014-06-09
365166	DAD-12	water	2014-06-09	10:15	2014-06-09
365167	DAD-13	water	2014-06-09	10:34	2014-06-09
365168	DAD-10	water	2014-06-09	11:27	2014-06-09
365169	DAD-20	water	2014-06-09	12:44	2014-06-09

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.

This report consists of a total of 20 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  
Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Dona Ana Dairies were received by TraceAnalysis, Inc. on 2014-06-09 and assigned to work order 14060933. Samples for work order 14060933 were received intact at a temperature of 2.0 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	95284	2014-06-09 at 17:30	112695	2014-06-09 at 17:30
NO3 (IC)	E 300.0	95284	2014-06-09 at 17:30	112695	2014-06-09 at 17:30
TDS	SM 2540C	95283	2014-06-09 at 14:35	112694	2014-06-09 at 14:35
TKN	SM 4500-NH3 B,C	95421	2014-06-16 at 09:40	112859	2014-06-16 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 14060933 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: 365165 - DAD-03

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112695 Date Analyzed: 2014-06-09 Analyzed By: JR  
 Prep Batch: 95284 Sample Preparation: 2014-06-09 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>838</b>	<b>838</b>	<1.19	mg/L	50	1.19	2.5	0.0238

## Sample: 365165 - DAD-03

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112695 Date Analyzed: 2014-06-09 Analyzed By: JR  
 Prep Batch: 95284 Sample Preparation: 2014-06-09 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1	<0.187	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

## Sample: 365165 - DAD-03

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112694 Date Analyzed: 2014-06-09 Analyzed By: MC  
 Prep Batch: 95283 Sample Preparation: 2014-06-09 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	<b>3410</b>	<b>3410</b>	<2.50	mg/L	1	2.50	2.5	2.5

## Sample: 365165 - DAD-03

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112859 Date Analyzed: 2014-06-16 Analyzed By: CF  
 Prep Batch: 95421 Sample Preparation: 2014-06-16 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	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 365166 - DAD-12**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112695 Date Analyzed: 2014-06-09 Analyzed By: JR  
 Prep Batch: 95284 Sample Preparation: 2014-06-09 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>603</b>	<b>603</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 365166 - DAD-12**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112695 Date Analyzed: 2014-06-09 Analyzed By: JR  
 Prep Batch: 95284 Sample Preparation: 2014-06-09 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>19.3</b>	<b>19.3</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 365166 - DAD-12**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112694 Date Analyzed: 2014-06-09 Analyzed By: MC  
 Prep Batch: 95283 Sample Preparation: 2014-06-09 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	<b>2750</b>	<b>2750</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 365166 - DAD-12**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112859 Date Analyzed: 2014-06-16 Analyzed By: CF  
 Prep Batch: 95421 Sample Preparation: 2014-06-16 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 365167 - DAD-13**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112695 Date Analyzed: 2014-06-09 Analyzed By: JR  
 Prep Batch: 95284 Sample Preparation: 2014-06-09 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>507</b>	<b>507</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 365167 - DAD-13**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112695 Date Analyzed: 2014-06-09 Analyzed By: JR  
 Prep Batch: 95284 Sample Preparation: 2014-06-09 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>5.82</b>	<b>5.82</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 365167 - DAD-13**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112694 Date Analyzed: 2014-06-09 Analyzed By: MC  
 Prep Batch: 95283 Sample Preparation: 2014-06-09 Prepared By: MC

*continued . . .*

*sample 365167 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>2000</b>	<b>2000</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 365167 - DAD-13**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112859

Prep Batch: 95421

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-06-16

Sample Preparation: 2014-06-16

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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 365168 - DAD-10**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112695

Prep Batch: 95284

Analytical Method: E 300.0

Date Analyzed: 2014-06-09

Sample Preparation: 2014-06-09

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	<b>454</b>	<b>454</b>	<0.238	mg/L	10	0.238	2.5	0.0238

**Sample: 365168 - DAD-10**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112695

Prep Batch: 95284

Analytical Method: E 300.0

Date Analyzed: 2014-06-09

Sample Preparation: 2014-06-09

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	<b>6.86</b>	<b>6.86</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 365168 - DAD-10**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112694 Date Analyzed: 2014-06-09 Analyzed By: MC  
 Prep Batch: 95283 Sample Preparation: 2014-06-09 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	<b>1560</b>	<b>1560</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 365168 - DAD-10**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112859 Date Analyzed: 2014-06-16 Analyzed By: CF  
 Prep Batch: 95421 Sample Preparation: 2014-06-16 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 365169 - DAD-20**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112695 Date Analyzed: 2014-06-09 Analyzed By: JR  
 Prep Batch: 95284 Sample Preparation: 2014-06-09 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	<b>773</b>	<b>773</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 365169 - DAD-20**



Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	NO3 (IC)	Date Analyzed:	2014-06-09	Analyzed By:	JR
QC Batch:	112695	Sample Preparation:	2014-06-09	Prepared By:	JR
Prep Batch:	95284				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>20.4</b>	<b>20.4</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 365169 - DAD-20**

Laboratory:	El Paso	Analytical Method:	SM 2540C	Prep Method:	N/A
Analysis:	TDS	Date Analyzed:	2014-06-09	Analyzed By:	MC
QC Batch:	112694	Sample Preparation:	2014-06-09	Prepared By:	MC
Prep Batch:	95283				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	<b>2470</b>	<b>2470</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 365169 - DAD-20**

Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-06-16	Analyzed By:	CF
QC Batch:	112859	Sample Preparation:	2014-06-16	Prepared By:	CF
Prep Batch:	95421				

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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

---

## Method Blanks

### Method Blank (1)

QC Batch: 112694  
Prep Batch: 95283Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112695  
Prep Batch: 95284Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112695  
Prep Batch: 95284Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112859  
Prep Batch: 95421Date Analyzed: 2014-06-16  
QC Preparation: 2014-06-16Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

# Duplicates

**Duplicate (1)**    Duplicated Sample: 364955

QC Batch: 112694  
 Prep Batch: 95283

Date Analyzed: 2014-06-09  
 QC Preparation: 2014-06-09

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1740	1750	mg/L	1	1	10

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 112694  
Prep Batch: 95283Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1000	mg/L	1	1000	<2.50	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	992	mg/L	1	1000	<2.50	99	90 - 110	1	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: 112695  
Prep Batch: 95284Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.1	mg/L	1	25.0	<0.0238	96	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
Chloride		1	24.1	mg/L	1	25.0	<0.0238	96	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: 112695  
Prep Batch: 95284Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.79	mg/L	1	5.00	<0.0374	96	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							
Nitrate-N		1	4.78	mg/L	1	5.00	<0.0374	96	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: 112859  
Prep Batch: 95421

Date Analyzed: 2014-06-16  
QC Preparation: 2014-06-16

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	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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: 365168QC Batch: 112695  
Prep Batch: 95284Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1860	mg/L	55.6	1390	454	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
Chloride		1	1820	mg/L	55.6	1390	454	98	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: 365168QC Batch: 112695  
Prep Batch: 95284Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	279	mg/L	55.6	278	6.86	98	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	273	mg/L	55.6	278	6.86	96	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: 365335QC Batch: 112859  
Prep Batch: 95421Date Analyzed: 2014-06-16  
QC Preparation: 2014-06-16Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	4.9	81	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
Total Kjeldahl Nitrogen - N		2	49.0	mg/L	1	50.0	4.9	88	80 - 120	7	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: 112695

Date Analyzed: 2014-06-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2014-06-09

**Standard (CCV-1)**

QC Batch: 112695

Date Analyzed: 2014-06-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.84	97	90 - 110	2014-06-09

**Standard (CCV-2)**

QC Batch: 112695

Date Analyzed: 2014-06-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-06-09

**Standard (CCV-2)**

QC Batch: 112695

Date Analyzed: 2014-06-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-06-09

**Standard (CCV-3)**

QC Batch: 112695

Date Analyzed: 2014-06-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-06-09

**Standard (CCV-3)**

QC Batch: 112695

Date Analyzed: 2014-06-09

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-06-09

**Standard (ICV-1)**

QC Batch: 112859

Date Analyzed: 2014-06-16

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	mg/L	5.00	4.62	92	85 - 115	2014-06-16

**Standard (CCV-1)**

QC Batch: 112859

Date Analyzed: 2014-06-16

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	mg/L	5.00	4.76	95	85 - 115	2014-06-16

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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.

LAB Order ID # 1460933

Company Name: D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln, El Paso TX 79907  
Contact Person: Victor Ayala  
Phone #: 915-859-8150  
Cell #:   
Fax #:   
E-mail: vajala@dhpump.com

Project Name: Linda Armstrong 575-233-3620  
Project #: 441960  
Project Location (including state): Various Dairies, Dona Ana County, NIM  
Sampler Signature: [Signature]

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	
365165	DAD-03	1	500	X				X				X			6-9-14	9:16
1-2	DAD-03	1	250	X				X				X			9:16	9:16
166	DAD-04 12	1	500	X				X				X			10:15	10:15
1-2	DAD-04 12	1	250	X				X				X			10:15	10:15
117	DAD-04 13	1	500	X				X				X			10:34	10:34
1-2	DAD-04 13	1	250	X				X				X			10:34	10:34
118	DAD-04 10	1	500	X				X				X			11:27	11:27
1-2	DAD-04 10	1	250	X				X				X			11:27	11:27
169	DAD-04 20	1	500	X				X				X			12:44	12:44
1-2	DAD-04 20	1	250	X				X				X			12:44	12:44
	DAD-08	1		X				X				X				
	DAD-10	1		X				X				X				
	DAD-11	1		X				X				X				
	DAD-14	1		X				X				X				
	DAD-15	1		X				X				X				
	DAD-19	1		X				X				X				

ANALYSIS REQUEST

TX 1005 Extended (C35)	
TPH 418.1 / TX1005	
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

Turn Around Time

Hold

Remarks: on ice

Lab Use Only  
Intact Y / N  
Headspace Y / N  
Temp 55 cc  
Login Review 11/14/14

DRS 48891822

Dry Weight Basis Required   
TRRP Report Required

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
<u>July</u>	<u>6-9-14</u>	<u>14:15</u>	<u>MRC TAEP</u>	<u>6-9-14</u>	<u>14:15</u>
<u>MRC TAEP</u>	<u>6-9-14</u>	<u>16:35</u>	<u>Received at Laboratory By:</u> <u>Brendy TA</u> <u>Wanda</u>	<u>6/10/14</u>	<u>9:40</u>



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: June 17, 2014

P.O. Box 10  
 Mesquite, NM, 88048

Work Order: 14060622



Project Name: Dona Ana Dairies

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
364955	DAD-15	water	2014-06-06	08:04	2014-06-06
364956	DAD-11	water	2014-06-06	08:41	2014-06-06
364957	DAD-14	water	2014-06-06	09:19	2014-06-06
364958	DAD-22	water	2014-06-06	10:28	2014-06-06

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.

This report consists of a total of 20 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  
 Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Dona Ana Dairies were received by TraceAnalysis, Inc. on 2014-06-06 and assigned to work order 14060622. Samples for work order 14060622 were received intact at a temperature of 5.0 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	95241	2014-06-06 at 17:35	112644	2014-06-06 at 17:35
NO3 (IC)	E 300.0	95241	2014-06-06 at 17:35	112644	2014-06-06 at 17:35
TDS	SM 2540C	95283	2014-06-09 at 14:35	112694	2014-06-09 at 14:35
TKN	SM 4500-NH3 B,C	95353	2014-06-12 at 09:30	112771	2014-06-12 at 13:40
TKN	SM 4500-NH3 B,C	95421	2014-06-16 at 09:40	112859	2014-06-16 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 14060622 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: 364955 - DAD-15

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112644 Date Analyzed: 2014-06-06 Analyzed By: JR  
 Prep Batch: 95241 Sample Preparation: 2014-06-06 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>510</b>	<b>510</b>	<1.19	mg/L	50	1.19	2.5	0.0238

## Sample: 364955 - DAD-15

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112644 Date Analyzed: 2014-06-06 Analyzed By: JR  
 Prep Batch: 95241 Sample Preparation: 2014-06-06 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	<b>6.09</b>	<b>6.09</b>	<0.187	mg/L	5	0.187	0.5	0.0374

## Sample: 364955 - DAD-15

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112694 Date Analyzed: 2014-06-09 Analyzed By: MC  
 Prep Batch: 95283 Sample Preparation: 2014-06-09 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	<b>1750</b>	<b>1750</b>	<2.50	mg/L	1	2.50	2.5	2.5

## Sample: 364955 - DAD-15

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112859 Date Analyzed: 2014-06-16 Analyzed By: CF  
 Prep Batch: 95421 Sample Preparation: 2014-06-16 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	U	2	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364956 - DAD-11**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112644 Date Analyzed: 2014-06-06 Analyzed By: JR  
 Prep Batch: 95241 Sample Preparation: 2014-06-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>477</b>	<b>477</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364956 - DAD-11**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112644 Date Analyzed: 2014-06-06 Analyzed By: JR  
 Prep Batch: 95241 Sample Preparation: 2014-06-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	<b>1.31</b>	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364956 - DAD-11**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112694 Date Analyzed: 2014-06-09 Analyzed By: MC  
 Prep Batch: 95283 Sample Preparation: 2014-06-09 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	<b>1860</b>	<b>1860</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364956 - DAD-11**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112771 Date Analyzed: 2014-06-12 Analyzed By: CF  
 Prep Batch: 95353 Sample Preparation: 2014-06-12 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	J	2	<b>4.90</b>	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364957 - DAD-14**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112644 Date Analyzed: 2014-06-06 Analyzed By: JR  
 Prep Batch: 95241 Sample Preparation: 2014-06-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>943</b>	<b>943</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364957 - DAD-14**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112644 Date Analyzed: 2014-06-06 Analyzed By: JR  
 Prep Batch: 95241 Sample Preparation: 2014-06-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>29.6</b>	<b>29.6</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364957 - DAD-14**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112694 Date Analyzed: 2014-06-09 Analyzed By: MC  
 Prep Batch: 95283 Sample Preparation: 2014-06-09 Prepared By: MC

*continued . . .*

*sample 364957 continued ...*

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	<b>3340</b>	<b>3340</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364957 - DAD-14**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 112771

Prep Batch: 95353

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-06-12

Sample Preparation: 2014-06-12

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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

**Sample: 364958 - DAD-22**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 112644

Prep Batch: 95241

Analytical Method: E 300.0

Date Analyzed: 2014-06-06

Sample Preparation: 2014-06-06

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	<b>906</b>	<b>906</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 364958 - DAD-22**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 112644

Prep Batch: 95241

Analytical Method: E 300.0

Date Analyzed: 2014-06-06

Sample Preparation: 2014-06-06

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	<b>6.80</b>	<b>6.80</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 364958 - DAD-22**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112694 Date Analyzed: 2014-06-09 Analyzed By: MC  
 Prep Batch: 95283 Sample Preparation: 2014-06-09 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	<b>2480</b>	<b>2480</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 364958 - DAD-22**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112771 Date Analyzed: 2014-06-12 Analyzed By: CF  
 Prep Batch: 95353 Sample Preparation: 2014-06-12 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

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## Method Blanks

### Method Blank (1)

QC Batch: 112644  
Prep Batch: 95241Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.0238	mg/L	0.0238

### Method Blank (1)

QC Batch: 112644  
Prep Batch: 95241Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112694  
Prep Batch: 95283Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112771  
Prep Batch: 95353Date Analyzed: 2014-06-12  
QC Preparation: 2014-06-12Analyzed By: CF  
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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**Method Blank (1)**

QC Batch: 112859

Date Analyzed: 2014-06-16

Analyzed By: CF

Prep Batch: 95421

QC Preparation: 2014-06-16

Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

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# Duplicates

**Duplicate (1)**    Duplicated Sample: 364955

QC Batch: 112694  
Prep Batch: 95283

Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09

Analyzed By: MC  
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1740	1750	mg/L	1	1	10



## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 112644  
Prep Batch: 95241Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	24.7	mg/L	1	25.0	<0.0238	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.8	mg/L	1	25.0	<0.0238	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: 112644  
Prep Batch: 95241Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: JR  
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.89	mg/L	1	5.00	<0.0374	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.90	mg/L	1	5.00	<0.0374	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: 112694  
Prep Batch: 95283Date Analyzed: 2014-06-09  
QC Preparation: 2014-06-09Analyzed By: MC  
Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	1000	mg/L	1	1000	<2.50	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	992	mg/L	1	1000	<2.50	99	90 - 110	1	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: 112771  
Prep Batch: 95353

Date Analyzed: 2014-06-12  
QC Preparation: 2014-06-12

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	43.4	mg/L	1	50.0	<1.80	87	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.80	91	85 - 115	5	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: 112859  
Prep Batch: 95421

Date Analyzed: 2014-06-16  
QC Preparation: 2014-06-16

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	43.4	mg/L	1	50.0	<1.80	87	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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	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: 364955QC Batch: 112644  
Prep Batch: 95241Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1970	mg/L	55.6	1390	510	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
Chloride		1	1970	mg/L	55.6	1390	510	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: 364955QC Batch: 112644  
Prep Batch: 95241Date Analyzed: 2014-06-06  
QC Preparation: 2014-06-06Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	278	mg/L	55.6	278	6.09	98	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	278	mg/L	55.6	278	6.09	98	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: 365025QC Batch: 112771  
Prep Batch: 95353Date Analyzed: 2014-06-12  
QC Preparation: 2014-06-12Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.80	87	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							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.80	90	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: 365335

QC Batch: 112859  
Prep Batch: 95421

Date Analyzed: 2014-06-16  
QC Preparation: 2014-06-16

Analyzed By: CF  
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	4.9	81	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							
Total Kjeldahl Nitrogen - N		2	49.0	mg/L	1	50.0	4.9	88	80 - 120	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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## Calibration Standards

**Standard (CCV-1)**

QC Batch: 112644

Date Analyzed: 2014-06-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-06-06

**Standard (CCV-1)**

QC Batch: 112644

Date Analyzed: 2014-06-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-06-06

**Standard (CCV-2)**

QC Batch: 112644

Date Analyzed: 2014-06-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-06-06

**Standard (CCV-2)**

QC Batch: 112644

Date Analyzed: 2014-06-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.88	98	90 - 110	2014-06-06

**Standard (CCV-3)**

QC Batch: 112644

Date Analyzed: 2014-06-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-06-06

**Standard (CCV-3)**

QC Batch: 112644

Date Analyzed: 2014-06-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-06-06

**Standard (ICV-1)**

QC Batch: 112771

Date Analyzed: 2014-06-12

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	mg/L	5.00	4.34	87	85 - 115	2014-06-12

**Standard (CCV-1)**

QC Batch: 112771

Date Analyzed: 2014-06-12

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	mg/L	5.00	4.62	92	85 - 115	2014-06-12

**Standard (ICV-1)**

QC Batch: 112859

Date Analyzed: 2014-06-16

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	mg/L	5.00	4.62	92	85 - 115	2014-06-16

**Standard (CCV-1)**

QC Batch: 112859

Date Analyzed: 2014-06-16

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	mg/L	5.00	4.76	95	85 - 115	2014-06-16

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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 Abardeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1296  
Fax (806) 794-1298

# TraceAnalysis, Inc.

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):

Dona Ana Dairies, PO Box 10, Mesquite, NM 88048

Project #:

441968

Project Location (including state):

Various Dairies, Dona Ana County, NM

Project Name:

Dona Ana Dairies Consortium

Sampler Signature:

*Sub*

155 McQuirren, Ste. H El Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

Phone #: 915-859-8150

Cell #:

Fax #:

E-mail: [vajala@dhpump.com](mailto:vajala@dhpump.com)

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 14060622

### ANALYSIS REQUEST

Method	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
MTBE 8021B/602				X			
BTEX 8021B/602				X			
TPH 418.1 / TX1005				X			
TX 1005 Extended (C35)				X			
Hold							

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
347554	DAD-15	1	500	X				X	X	X	X	X	6-6-14	8:04
1-2	DAD-15	1	250	X				X	X	X	X	X		8:04
9564	DAD-11	1	500	X				X	X	X	X	X		8:41
1	DAD-11	1	250	X				X	X	X	X	X		8:41
9571	DAD-14	1	500	X				X	X	X	X	X		9:19
1-2	DAD-14	1	250	X				X	X	X	X	X		9:19
9581	DAD-22	1	500	X				X	X	X	X	X		10:28
1	DAD-22	1	250	X				X	X	X	X	X		10:28

Relinquished By: <i>Sub</i>	Date: 6-6-14	Time: 10:55	Received By: <i>DJH</i>	Date: 6-6-14	Time: 10:55
Relinquished By: <i>Therese Morris</i>	Date: 6-6-14	Time: 16:30	Received at Laboratory By:	Date:	Time:

Lab Use Only	Intact: (Y) (N)	Headspace Y (N)	Temp <i>16.1</i>	Dry Weight Basis Required
Remarks:			Log-in Review <i>Sub</i>	TRRP Report Required

LAB Order ID # 14060622

Company Name: D&H Petroleum & Environmental Services  
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
Contact Person: Victor Ayala  
Phone #: 915-859-8150  
Cell #:   
Fax #:   
E-mail: vajala@dhpump.com

Invoice to (if different from above):  
Dona Ana Dairies, PO Box 10, Mesquite, NM 88048  
Project #: 441968  
Project Name: Dona Ana Dairies Consortium  
Sampler Signature: [Signature]

Project Location (including state):  
Various Dairies, Dona Ana County, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		TIME	Turn Around Time	Hold	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ICE	NONE				DATE
3442551	DAD-15	1	500	X				X				X			6-6-14	8:04	
1-2	DAD-15	1	250	X				X				X				8:04	
9561	DAD-11	1	500	X				X				X				8:41	
1	DAD-11	1	250	X				X				X				8:41	
9571	DAD-14	1	500	X				X				X				9:19	
1-2	DAD-14	1	250	X				X				X				9:19	
9581	DAD-22	1	500	X				X				X				10:28	
1	DAD-22	1	250	X				X				X				10:28	
		1		X				X				X					
		1		X				X				X					
		1		X				X				X					
		1		X				X				X					

ANALYSIS REQUEST

TX 1005 Extended (C35)	
TPH 418.1 / TX1005	
BTEX 8021B/602	
MTBE 8021B/602	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	
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: 6-6-14 Time: 10:55  
 Relinquished By: D7 d.H. Date: 6-6-14 Time: 16:30  
 Received By: [Signature] Date: 6-6-14 Time: 10:55  
 Received at Laboratory By: [Signature] Date: 6-6-14 Time: 10:55  
 Lab Use Only: Intact (Y) N  
 Headspace Y / N (N) A  
 Temp 42.1 51.5 51.5 51.5  
 Log-in Review [Signature]  
 Remarks: 85 48891822 8/3/17  
 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

Linda Armstrong  
 Dona Ana Dairies

Report Date: June 20, 2014

P.O. Box 10  
 Mesquite, NM, 88048

Work Order: 14061215



Project Location: Various Dairies, Dona Ana County, NM  
 Project Name: Dona Ana Dairies Consortium  
 Project #: DAD

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
365466	DAD-7	water	2014-06-12	08:42	2014-06-12

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.

This report consists of a total of 16 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  
 Dr. Michael Abel, Project Manager

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## Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2014-06-12 and assigned to work order 14061215. Samples for work order 14061215 were received intact at a temperature of 7.0 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	95383	2014-06-12 at 16:45	112805	2014-06-12 at 16:45
NO3 (IC)	E 300.0	95383	2014-06-12 at 16:45	112805	2014-06-12 at 16:45
TDS	SM 2540C	95402	2014-06-13 at 12:40	112835	2014-06-13 at 12:40
TKN	SM 4500-NH3 B,C	95529	2014-06-19 at 09:40	112970	2014-06-19 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 14061215 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: 365466 - DAD-7**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112805 Date Analyzed: 2014-06-12 Analyzed By: JR  
 Prep Batch: 95383 Sample Preparation: 2014-06-12 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	<b>540</b>	<b>540</b>	<1.19	mg/L	50	1.19	2.5	0.0238

**Sample: 365466 - DAD-7**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 112805 Date Analyzed: 2014-06-12 Analyzed By: JR  
 Prep Batch: 95383 Sample Preparation: 2014-06-12 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	<b>5.44</b>	<b>5.44</b>	<0.187	mg/L	5	0.187	0.5	0.0374

**Sample: 365466 - DAD-7**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 112835 Date Analyzed: 2014-06-13 Analyzed By: MC  
 Prep Batch: 95402 Sample Preparation: 2014-06-13 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	<b>2020</b>	<b>2020</b>	<2.50	mg/L	1	2.50	2.5	2.5

**Sample: 365466 - DAD-7**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 112970 Date Analyzed: 2014-06-19 Analyzed By: CF  
 Prep Batch: 95529 Sample Preparation: 2014-06-19 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	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8



## Method Blanks

### Method Blank (1)

QC Batch: 112805  
Prep Batch: 95383Date Analyzed: 2014-06-12  
QC Preparation: 2014-06-12Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.29	mg/L	0.0238

### Method Blank (1)

QC Batch: 112805  
Prep Batch: 95383Date Analyzed: 2014-06-12  
QC Preparation: 2014-06-12Analyzed By: JR  
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

### Method Blank (1)

QC Batch: 112835  
Prep Batch: 95402Date Analyzed: 2014-06-13  
QC Preparation: 2014-06-13Analyzed By: MC  
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1	<2.50	mg/L	2.5

### Method Blank (1)

QC Batch: 112970  
Prep Batch: 95529Date Analyzed: 2014-06-19  
QC Preparation: 2014-06-19Analyzed By: CF  
Prepared By: CF

---

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.80	mg/L	1.8

---

# Duplicates

Duplicate (1) Duplicated Sample: 365617

QC Batch: 112835  
 Prep Batch: 95402

Date Analyzed: 2014-06-13  
 QC Preparation: 2014-06-13

Analyzed By: MC  
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	4140	4080	mg/L	1	1	10



Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids		1	999	mg/L	1	1000	<2.50	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: 112970  
 Prep Batch: 95529

Date Analyzed: 2014-06-19  
 QC Preparation: 2014-06-19

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	45.5	mg/L	1	50.0	<1.80	91	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							
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.80	88	85 - 115	3	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: 365466QC Batch: 112805  
Prep Batch: 95383Date Analyzed: 2014-06-12  
QC Preparation: 2014-06-12Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1960	mg/L	55.6	1390	540	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1950	mg/L	55.6	1390	540	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: 365466QC Batch: 112805  
Prep Batch: 95383Date Analyzed: 2014-06-12  
QC Preparation: 2014-06-12Analyzed By: JR  
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	269	mg/L	55.6	278	5.44	95	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	267	mg/L	55.6	278	5.44	94	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: 366068QC Batch: 112970  
Prep Batch: 95529Date Analyzed: 2014-06-19  
QC Preparation: 2014-06-19Analyzed By: CF  
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	46.9	mg/L	1	50.0	4.2	85	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	RPD Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	4.2	83	80 - 120	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: 112805

Date Analyzed: 2014-06-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2014-06-12

### Standard (CCV-1)

QC Batch: 112805

Date Analyzed: 2014-06-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.85	97	90 - 110	2014-06-12

### Standard (CCV-2)

QC Batch: 112805

Date Analyzed: 2014-06-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-06-12

### Standard (CCV-2)

QC Batch: 112805

Date Analyzed: 2014-06-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.87	97	90 - 110	2014-06-12



**Standard (ICV-1)**

QC Batch: 112970

Date Analyzed: 2014-06-19

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	mg/L	5.00	4.34	87	85 - 115	2014-06-19

**Standard (CCV-1)**

QC Batch: 112970

Date Analyzed: 2014-06-19

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	mg/L	5.00	4.90	98	85 - 115	2014-06-19

---

## Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	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	5.00	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	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-14-10	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

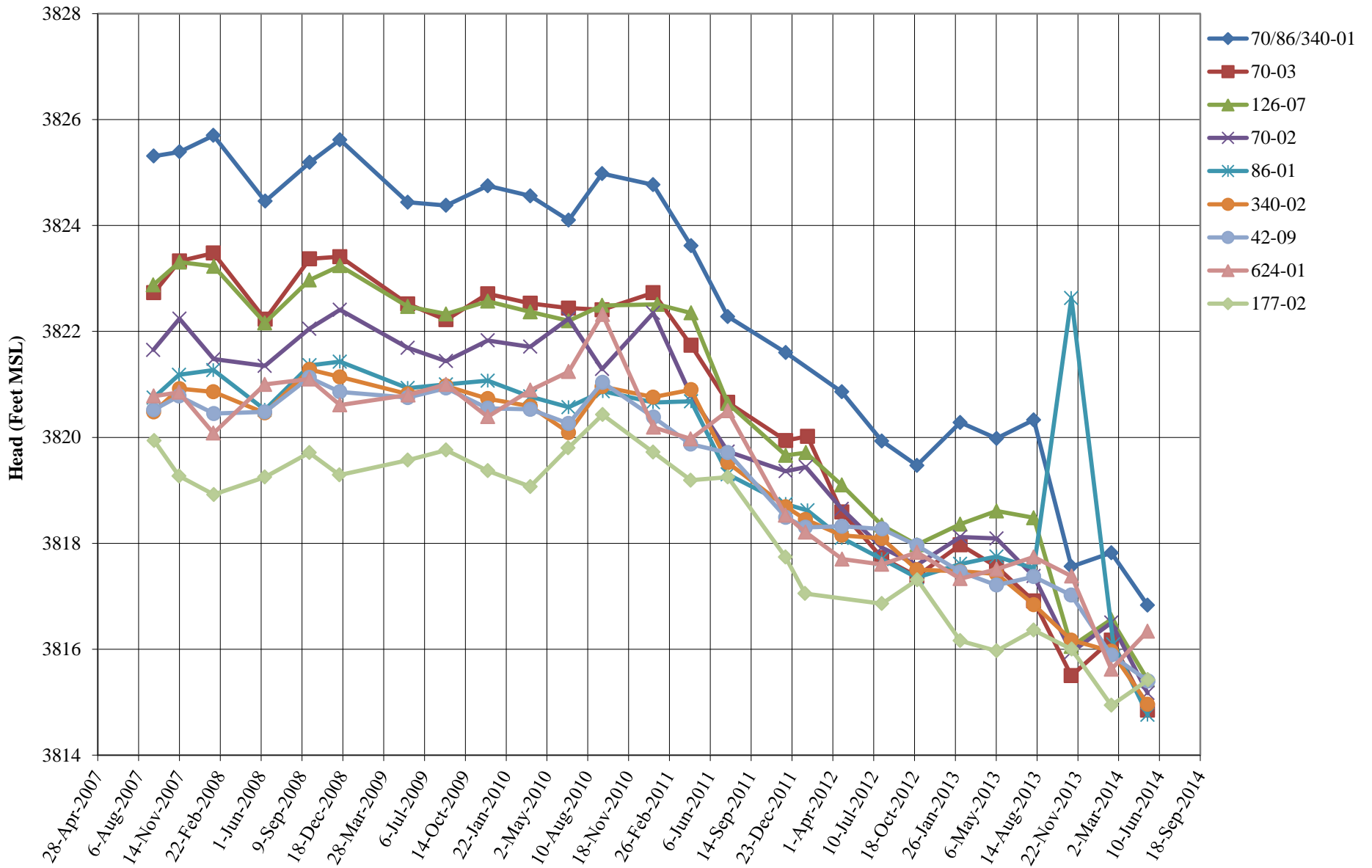
## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

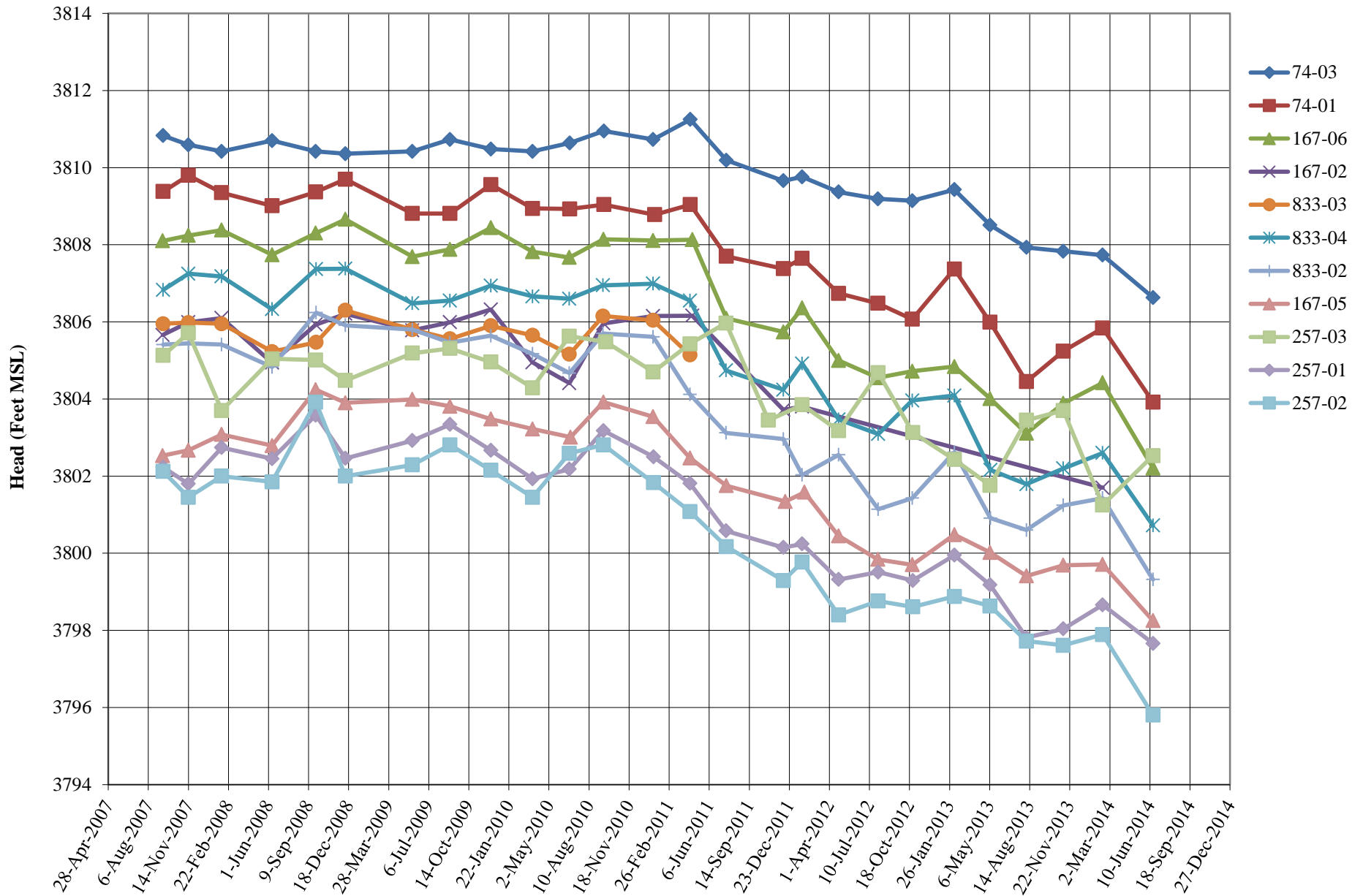


**APPENDIX C  
HYDROGRAPHS**

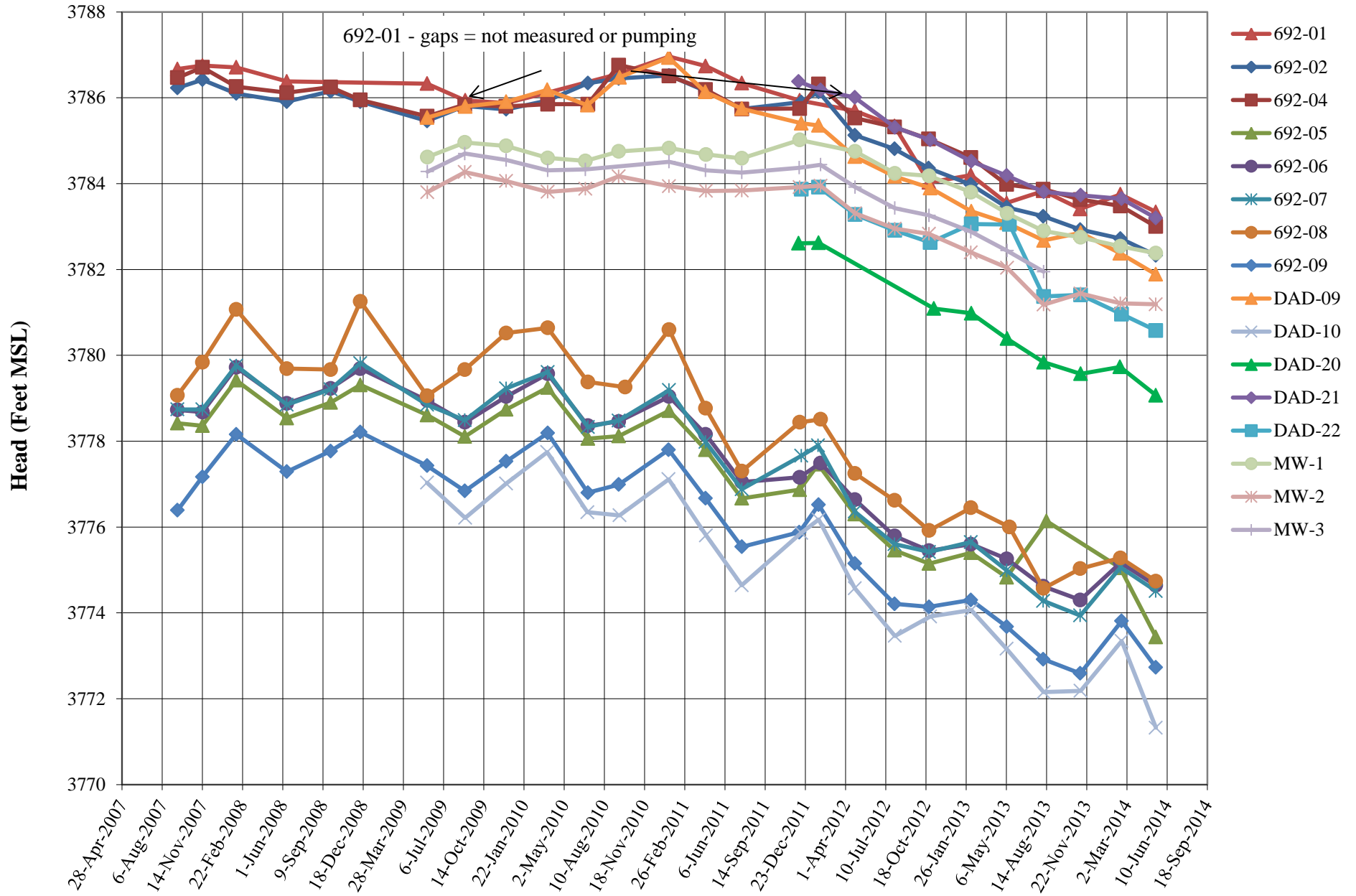
## HYDROGRAPHS FOR DP MONITORING WELLS NORTHERN PORTION DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO



## HYDROGRAPHS FOR DP MONITORING WELLS CENTRAL PORTION DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO



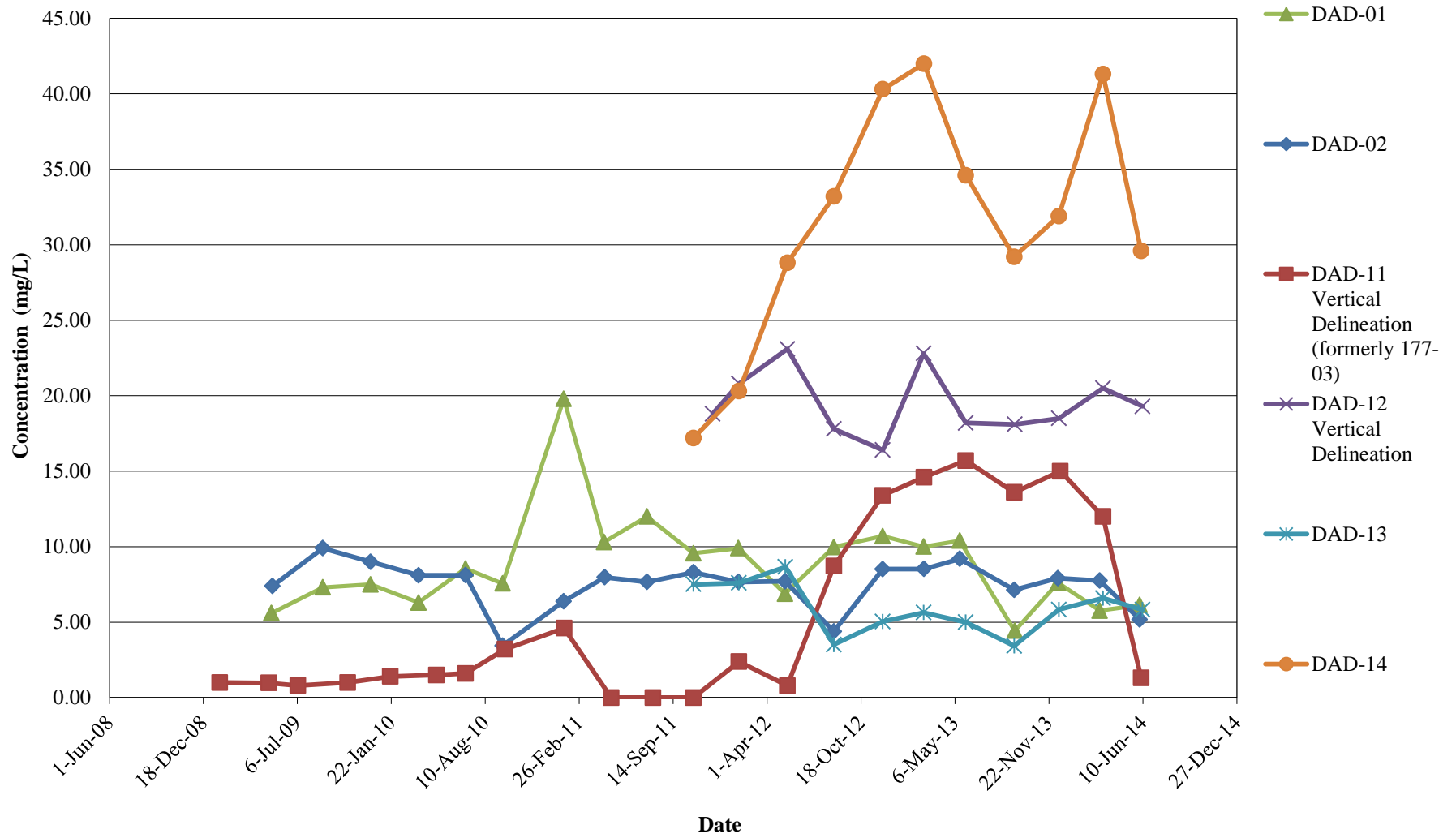
## HYDROGRAPHS FOR DP MONITORING WELLS SOUTHERN PORTION DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO



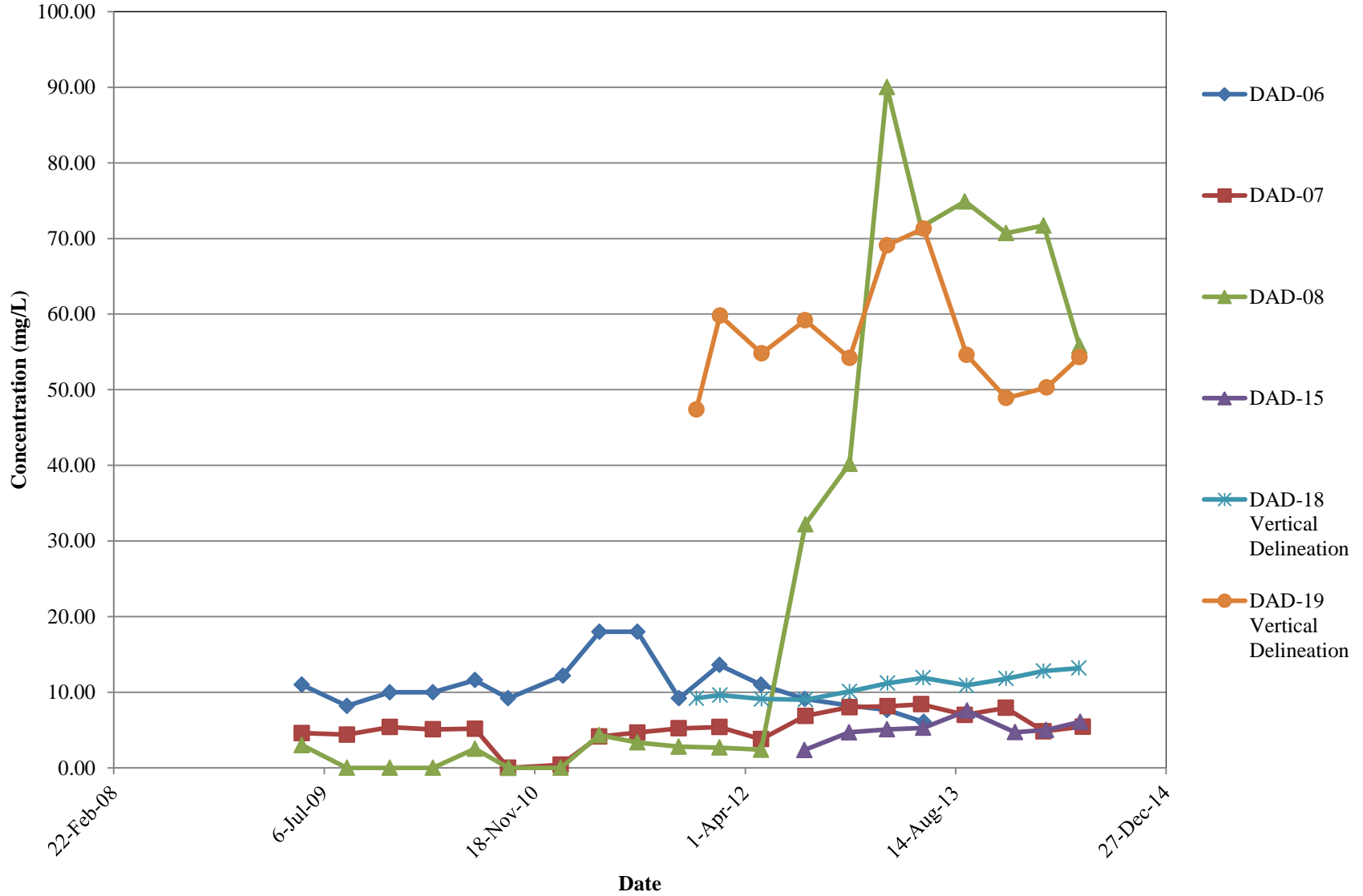


**APPENDIX D  
CONCENTRATION TRENDS**

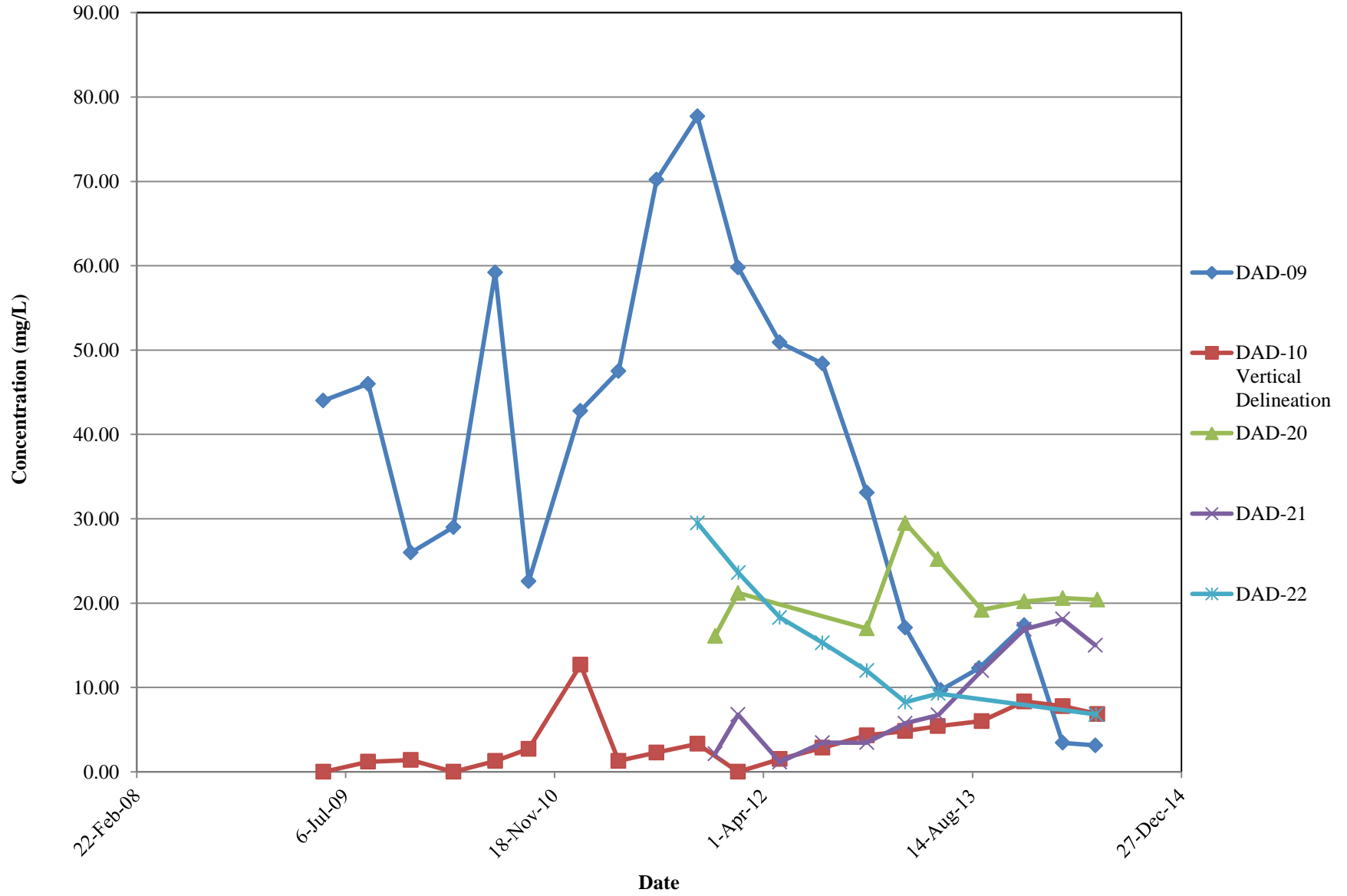
**NITRATE CONCENTRATION TRENDS  
IN SELECT NORTHERN DAD MONITORING WELLS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



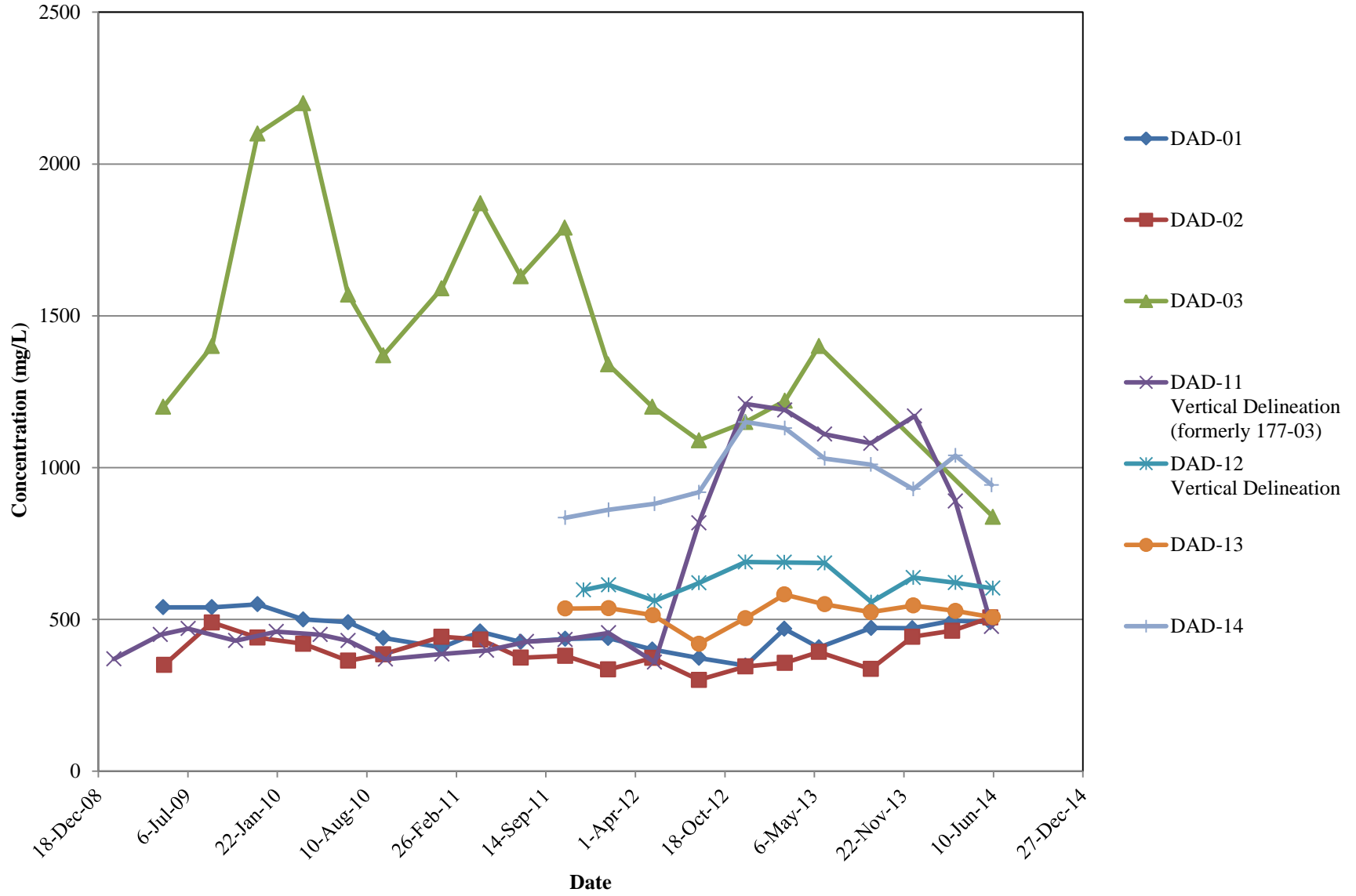
**NITRATE CONCENTRATION TRENDS  
IN SELECT CENTRAL DAD WELLS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



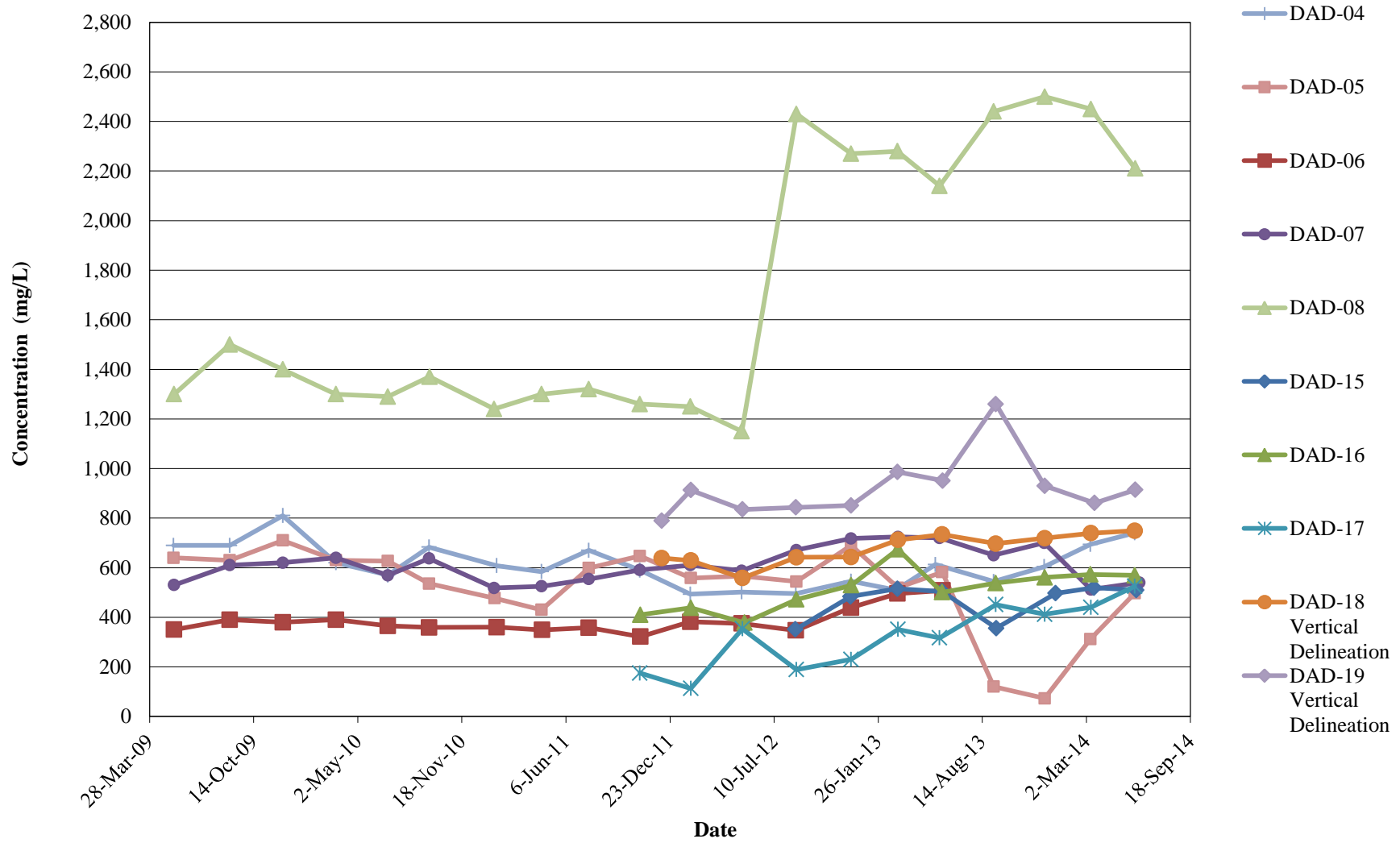
**NITRATE CONCENTRATION TRENDS  
IN SELECT SOUTHERN DAD WELLS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



**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**

