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November 3, 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

November 2014

EA Project No. 1464103.0006



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Teri McMillan
Project Manager

11/03/2014

Date

Jay Snyder
Senior Hydrogeologist

11/03/2014

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 August 12 through 14, 2014, representatives from D&H Petroleum and Environmental Services, Inc. (D&H) gauged all discharge plan (DP) and abatement plan (AP) monitoring wells.
- On August 15 through September 4, 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 three weeks. The samples were delivered to TraceAnalysis, Inc. and analyzed for nitrate using EPA Method 300.0 or SM 4500 NO₃ 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; DAD-10 was resampled on October 3, 2014.
- 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 August 12 through 14, 2014, representatives from D&H gauged the DP and AP monitoring wells with an electronic water level indicator. 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 August 28 through September 3, 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 August 15 through September 4, 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 12.34 feet below top of casing (ft TOC) in abatement well 257-03 to 132.13 ft TOC in Dominguez #2 well 42-12. Groundwater was encountered at shallower depths near the Mesquite Drain and at greater depths near I-10 where the topographic elevation increases.

Potentiometric surface maps were completed using the monitoring well gauging data for the northern, central, and southern portions of the Dairies and are provided as Figures 2, 3, 4, and 5. Hydrographs were completed for select monitoring wells and are provided in Appendix C. On average, water levels have slightly increased in the northern and central areas while continuing to decrease in the southern area when compared to the monitoring event conducted in May 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 9 of the 21 AP monitoring wells sampled. The AP wells that had nitrate concentrations above standards are DAD-08, DAD-10, DAD-11, 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 decreased in wells DAD-04, DAD-05, DAD-08, DAD-12, DAD-14, DAD-15, DAD-18, DAD-19, DAD-20, DAD-21, and DAD-22, while nitrate concentrations increased in wells DAD-01, DAD-02, DAD-07, DAD-09, DAD-10, DAD-11, DAD-13, DAD-16, and DAD-17. Well DAD-08 saw the largest decrease in nitrate concentrations decreasing from 55.8 mg/L in June 2014 to 39.5 mg/L for this monitoring event. Well DAD-11 increased from 1.31 mg/L in June 2014 to 11.1 mg/L, for this monitoring event, DAD-11 had the largest increase in nitrate concentrations since the last event. On August 28, 2014 the results for AP well DAD-10 showed a nitrate concentration of 17.0. This appeared anomalously high, as DAD-10 had not exceeded NMWQCC standards for nitrate since January 2011, with a concentration of 12.7 mg/L. DAD-10 was resampled on October 3, 2014 and had a nitrate concentration of 12.5 mg/L, an increase of approximately 6 mg/L over the previous

monitoring event in June 2014. Nitrate concentrations in the AP wells ranged from below detection limits at <0.126 mg/L in well DAD-04 to 41.0 mg/L in well DAD-19 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-04, DAD-05, DAD-08, and DAD-11. Chloride and TDS concentrations in well DAD-05 had been suspect in the September and December 2013 monitoring events, but concentrations appear to have returned to previous concentrations for the last three quarters. Chloride concentrations in well DAD-11 increased from 477 mg/L in June 2014 to 717 mg/L for this event, and TDS concentrations increased from 1,860 mg/L in June 2014 to 2,950 mg/L for this event. Chloride concentration in the AP wells range from 230 mg/L in well DAD-05 to 1,700 mg/L in well DAD-08 for this event, and TDS ranged from 1,200 mg/L in well DAD-05 to 5,220 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-13 with a nitrate concentration of 6.51 mg/L. The upgradient well (northern land application well (70/86/340-1) had a nitrate concentration of 15.3 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 six quarters. Nitrate concentrations in the well nearest to Dominguez well 624-05, Day Break (Dominguez #2) well 42-02, decreased slightly from 10.2 mg/L in May 2014 to 7.62 mg/L, below NMWQCC standards, for this event.

The chloride and TDS concentrations are above standards in all wells sampled within the northern portion, with the exception of well Former D&J Dairy (Dominguez 2) well 42-08, with a chloride concentration below standards at 159 mg/L. The highest concentrations of chloride and TDS were observed in the Northern Land Application area well 70-03 at 2,590 mg/L and 7,000 mg/L, respectively.

Central Portion

The highest nitrate concentrations were observed in Big Sky Dairy wells 833-07 and 833-08 at

concentrations of 83.6 mg/L and 90.2 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 all of these wells.

Nitrate concentrations were variable in the central portion during this sampling event, with the exception of Buena Vista Dairy II well 74-01, which increased from 62.6 mg/L to 76.2 mg/L.

Chloride and TDS concentrations are above standards in all wells within the central portion. The highest chloride and TDS concentrations were observed at well DAD-08 at 1,700 mg/L and 5,220 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, with the exception of DAD-10 which had a concentration of 17.0 mg/L during this sampling event on August 28, 2014. Due to this anomalously high nitrate concentration, DAD-10 was resampled on October 3, 2014, with a nitrate concentration of 12.5 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 at 19.3 mg/L and 13.0 mg/L, respectively. AP wells DAD-09 and DAD-22 remained below standards for this event at 5.25 mg/L and 6.60 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 132 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 418 mg/L in Del Oro Dairy wells 692-08 and 692-09 to 909 mg/L in well 692-02, while TDS ranged from 1,300 mg/L in Del Oro dairy well 692-08 to 3,510 mg/L in Del Oro Dairy well 692-02. Upgradient well Del Oro 692-09 had a chloride concentration of 418 mg/L and a TDS concentration of 1,450 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 12.34 to 132.13 feet below the top of casing.
- On average, water levels have either increased slightly (in the northern and central areas) or decreased slightly (in the southern area) since May/ June 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 12 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 Former D&J Dairy (Dominguez 2) well 42-08 with a concentration of 159 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 ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
NORTHERN AREA						
Northern Land Application Area						
70-03	12-Aug-2014	424580.78	1510233.88	3871.43	57.24	3814.19
	12-May-2014				56.58	3814.85
	12-Feb-2014				55.26	3816.17
	6-Nov-2013				55.93	3815.50
	6-Aug-2013				54.52	3816.91
	7-May-2013				53.87	3817.56
	7-Feb-2013				53.46	3817.97
	24-Oct-2012				54.05	3817.38
	30-Jul-2012				53.70	3817.73
	23-Apr-2012				52.84	3818.59
	30-Jan-2012				51.41	3820.02
	8-Dec-2011				51.49	3819.94
	19-Jul-2011				50.77	3820.66
	20-Apr-2011				49.69	3821.74
	17-Jan-2011				48.70	3822.73
	14-Sep-2010				49.02	3822.41
	24-Jun-2010				48.99	3822.44
	22-Mar-2010				48.90	3822.53
	8-Dec-2009				48.72	3822.71
	28-Aug-2009				49.21	3822.22
26-May-2009	48.91	3822.52				
11-Dec-2008	48.02	3823.41				
28-Sep-2008	48.06	3823.37				
11-Jun-2008	49.20	3822.23				
5-Feb-2008	47.95	3823.48				
14-Nov-2007	48.10	3823.33				
12-Sep-2007	48.70	3822.73				
70/86/340-01	12-Aug-2014	427320.92	1508461.05	3866.77	50.38	3816.39
	12-May-2014				49.94	3816.83
	12-Feb-2014				48.95	3817.82
	6-Nov-2013				49.21	3817.56
	6-Aug-2013				46.44	3820.33
	7-May-2013				46.79	3819.98
	7-Feb-2013				46.49	3820.28
	24-Oct-2012				47.30	3819.47
	30-Jul-2012				46.84	3819.93
	23-Apr-2012				45.91	3820.86
	8-Dec-2011				45.17	3821.60
	19-Jul-2011				44.49	3822.28
	20-Apr-2011				43.15	3823.62
	17-Jan-2011				42.00	3824.77
	14-Sep-2010				41.79	3824.98
	24-Jun-2010				42.67	3824.10
	22-Mar-2010				42.21	3824.56
	8-Dec-2009				42.02	3824.75
	28-Aug-2009				42.39	3824.38
	26-May-2009				42.33	3824.44
11-Dec-2008	41.15	3825.62				
28-Sep-2008	41.58	3825.19				
11-Jun-2008	42.31	3824.46				
5-Feb-2008	41.07	3825.70				
14-Nov-2007	41.38	3825.39				
12-Sep-2007	41.46	3825.31				

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DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
86/340-01	12-Aug-2014	432021.33	1503216.90	3876.14	57.28	3818.86
	12-May-2014				57.04	3819.10
	12-Feb-2014				55.10	3821.04
	6-Nov-2013				55.78	3820.36
	6-Aug-2013				53.29	3822.85
	7-May-2013				52.65	3823.49
	7-Feb-2013				52.31	3823.83
	24-Oct-2012				53.16	3822.98
	30-Jul-2012				52.70	3823.44
	23-Apr-2012				52.20	3823.94
	30-Jan-2012				51.10	3825.04
	8-Dec-2011				51.20	3824.94
	19-Jul-2011				50.36	3825.78
	20-Apr-2011				48.91	3827.23
	17-Jan-2011				47.00	3829.14
	14-Sep-2010				47.63	3828.51
	24-Jun-2010				48.22	3827.92
	22-Mar-2010				47.66	3828.48
	8-Dec-2009				47.39	3828.75
	28-Aug-2009				47.75	3828.39
26-May-2009	47.86	3828.28				
11-Dec-2008	46.68	3829.46				
28-Sep-2008	47.44	3828.70				
11-Jun-2008	48.11	3828.03				
5-Feb-2008	46.68	3829.46				
14-Nov-2007	47.11	3829.03				
12-Sep-2007	47.85	3828.29				
Organ Dairy (Formerly known as Del Norte Dairy and Daybreak Dairy)						
126-04	12-Aug-2014	423258.23	1510546.24	3850.31	35.61	3814.70
	12-May-2014				34.98	3815.33
	12-Feb-2014				33.79	3816.52
	6-Nov-2013				34.32	3815.99
	6-Aug-2013				32.93	3817.38
	7-May-2013				32.01	3818.30
	7-Feb-2013				32.05	3818.26
	24-Oct-2012				32.58	3817.73
	30-Jul-2012				32.23	3818.08
	23-Apr-2012				31.46	3818.85
	26-Jan-2012				30.89	3819.42
	8-Dec-2011				30.84	3819.47
	19-Jul-2011				30.26	3820.05
	20-Apr-2011				29.09	3821.22
	17-Jan-2011				28.20	3822.11
	14-Sep-2010				28.60	3821.71
	24-Jun-2010				28.21	3822.10
	22-Mar-2010				28.33	3821.98
	8-Dec-2009				28.17	3822.14
	28-Aug-2009				28.50	3821.81
26-May-2009	28.30	3822.01				
11-Dec-2008	27.56	3822.75				
27-Sep-2008	27.96	3822.35				
10-Jun-2008	28.61	3821.70				
6-Feb-2008	27.53	3822.78				
14-Nov-2007	27.61	3822.70				
11-Sep-2007	28.19	3822.12				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
126-05	12-Aug-2014	422293.26	1510649.84	3842.62	27.85	3814.77
	12-May-2014				27.63	3814.99
	12-Feb-2014				26.34	3816.28
	6-Nov-2013				26.67	3815.95
	6-Aug-2013				25.20	3817.42
	7-May-2013				24.65	3817.97
	7-Feb-2013				24.71	3817.91
	24-Oct-2012				24.96	3817.66
	30-Jul-2012				24.73	3817.89
	23-Apr-2012				24.21	3818.41
	26-Jan-2012				23.52	3819.10
	8-Dec-2011				23.50	3819.12
	19-Jul-2011				22.72	3819.90
	20-Apr-2011				21.74	3820.88
	21-Jan-2011				21.30	3821.32
	14-Sep-2010				20.91	3821.71
	24-Jun-2010				21.13	3821.49
	22-Mar-2010				21.06	3821.56
	8-Dec-2009				20.88	3821.74
	28-Aug-2009				20.83	3821.79
26-May-2009	20.91	3821.71				
11-Dec-2008	20.29	3822.33				
27-Sep-2008	20.42	3822.20				
10-Jun-2008	21.26	3821.36				
6-Feb-2008	20.34	3822.28				
14-Nov-2007	20.32	3822.30				
11-Sep-2007	20.74	3821.88				
126-07	12-Aug-2014	423613.62	1509986.47	3850.94	36.22	3814.72
	12-May-2014				35.52	3815.42
	12-Feb-2014				34.38	3816.56
	6-Nov-2013				34.89	3816.05
	6-Aug-2013				32.46	3818.48
	7-May-2013				32.33	3818.61
	7-Feb-2013				32.58	3818.36
	24-Oct-2012				32.97	3817.97
	30-Jul-2012				32.60	3818.34
	23-Apr-2012				31.84	3819.10
	26-Jan-2012				31.23	3819.71
	8-Dec-2011				31.28	3819.66
	19-Jul-2011				30.30	3820.64
	20-Apr-2011				28.59	3822.35
	27-Jan-2011				28.43	3822.51
	14-Sep-2010				28.45	3822.49
	24-Jun-2010				28.74	3822.20
	22-Mar-2010				28.57	3822.37
	8-Dec-2009				28.37	3822.57
	28-Aug-2009				28.61	3822.33
26-May-2009	28.47	3822.47				
11-Dec-2008	27.70	3823.24				
27-Sep-2008	27.97	3822.97				
10-Jun-2008	28.78	3822.16				
6-Feb-2008	27.71	3823.23				
14-Nov-2007	27.63	3823.31				
11-Sep-2007	28.06	3822.88				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
126-09	12-Aug-2014	425154.15	1510994.31	3893.35	78.15	3815.20
	12-May-2014				77.70	3815.65
	12-Feb-2014				76.14	3817.21
	6-Nov-2013				76.91	3816.44
	6-Aug-2013				76.09	3817.26
	7-May-2013				75.40	3817.95
	7-Feb-2013				74.61	3818.74
	24-Oct-2012				75.29	3818.06
	30-Jul-2012				74.98	3818.37
	23-Apr-2012				73.98	3819.37
	26-Jan-2012				72.24	3821.11
	8-Dec-2011				73.34	3820.01
	19-Jul-2011				73.19	3820.16
	20-Apr-2011				72.11	3821.24
	21-Jan-2011				71.00	3822.35
	14-Sep-2010				71.52	3821.83
	29-Jun-2010				72.23	3821.12
	22-Mar-2010				71.03	3822.32
	8-Dec-2009				70.94	3822.41
	28-Aug-2009				71.73	3821.62
26-May-2009	71.12	3822.23				
11-Dec-2008	70.27	3823.08				
27-Sep-2008	70.79	3822.56				
10-Jun-2008	71.47	3821.88				
6-Feb-2008	70.08	3823.27				
14-Nov-2007	70.46	3822.89				
11-Sep-2007	71.39	3821.96				
126-12	14-Aug-2014	421492.11	1510198.45	3838.88	23.37	3815.51
	12-May-2014				23.60	3815.28
	12-Feb-2014				22.46	3816.42
	6-Nov-2013				22.39	3816.49
	6-Aug-2013				21.44	3817.44
	7-May-2013				21.05	3817.83
	7-Feb-2013				20.92	3817.96
	24-Oct-2012				20.53	3818.35
	30-Jul-2012				20.48	3818.40
	23-Apr-2012				20.22	3818.66
	30-Jan-2012				19.79	3819.09
	8-Dec-2011				19.55	3819.33
	19-Jul-2011				18.27	3820.61
	20-Apr-2011				17.62	3821.26
	17-Jan-2011				17.00	3821.88
	16-Sep-2010				16.48	3822.40
	24-Jun-2010				17.30	3821.58
	24-Jun-2010				17.30	3821.58
	22-Mar-2010				17.19	3821.69
	8-Dec-2009				16.99	3821.89
28-Aug-2009	16.49	3822.39				
26-May-2009	16.85	3822.03				
11-Dec-2008	16.37	3822.51				
27-Sep-2008	16.29	3822.59				
10-Jun-2008	17.19	3821.69				
6-Feb-2008	16.62	3822.26				
14-Nov-2007	16.33	3822.55				
11-Sep-2007	16.56	3822.32				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
126-13	12-Aug-2014	423431.96	1510657.41	3857.37	42.60	3814.77
	12-May-2014				42.04	3815.33
	12-Feb-2014				40.78	3816.59
	6-Nov-2013				41.35	3816.02
	6-Aug-2013				39.96	3817.41
	7-May-2013				39.01	3818.36
	7-Feb-2013				39.07	3818.30
	24-Oct-2012				39.60	3817.77
	30-Jul-2012				39.30	3818.07
	23-Apr-2012				38.52	3818.85
	26-Jan-2012				37.80	3819.57
	8-Dec-2011				37.86	3819.51
	19-Jul-2011				37.29	3820.08
	20-Apr-2011				35.23	3822.14
	13-Jan-2011				35.23	3822.14
	14-Sep-2010				35.66	3821.71
	24-Jun-2010				36.01	3821.36
	22-Mar-2010				35.40	3821.97
	8-Dec-2009				35.24	3822.13
	28-Aug-2009				35.60	3821.77
	26-May-2009				35.37	3822.00
11-Dec-2008	34.62	3822.75				
27-Sep-2008	34.99	3822.38				
10-Jun-2008	35.69	3821.68				
6-Feb-2008	NA	NA				
14-Nov-2007	16.33	3841.04				
11-Sep-2007	NA	NA				
Mountain View Dairy						
70-01	12-Aug-2014	423303.43	1510585.63	3851.84	37.18	3814.66
	12-May-2014				36.56	3815.28
	12-Feb-2014				35.33	3816.51
	6-Nov-2013				35.67	3816.17
	6-Aug-2013				34.19	3817.65
	7-May-2013				34.06	3817.78
	7-Feb-2013				33.58	3818.26
	24-Oct-2012				34.08	3817.76
	30-Jul-2012				33.80	3818.04
	23-Apr-2012				33.09	3818.75
	26-Jan-2012				32.29	3819.55
	8-Dec-2011				32.40	3819.44
	9-Jul-2011				31.77	3820.07
	20-Apr-2011				30.69	3821.15
	17-Jan-2011				29.72	3822.12
	14-Sep-2010				30.19	3821.65
	24-Jun-2010				29.30	3822.54
	22-Mar-2010				Unable to open well	
	8-Dec-2009				29.75	3822.09
	28-Aug-2009				30.08	3821.76
	26-May-2009				29.88	3821.96
11-Dec-2008	29.13	3822.71				
27-Sep-2008	29.79	3822.05				
10-Jun-2008	30.20	3821.64				
5-Feb-2008	29.10	3822.74				
13-Nov-2007	29.25	3822.59				
12-Sep-2007	29.77	3822.07				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
70-02	13-Aug-2014	423412.73	1511192.51	3861.25	46.73	3814.52
	12-May-2014				46.08	3815.17
	12-Feb-2014				44.75	3816.50
	6-Nov-2013				45.31	3815.94
	6-Aug-2013				43.87	3817.38
	7-May-2013				43.16	3818.09
	7-Feb-2013				43.13	3818.12
	24-Oct-2012				43.66	3817.59
	30-Jul-2012				43.33	3817.92
	23-Apr-2012				42.60	3818.65
	26-Jan-2012				41.81	3819.44
	8-Dec-2011				41.89	3819.36
	19-Jul-2011				41.52	3819.73
	20-Apr-2011				40.46	3820.79
	17-Jan-2011				38.90	3822.35
	14-Sep-2010				39.96	3821.29
	24-Jun-2010				39.01	3822.24
	22-Mar-2010				39.54	3821.71
	8-Dec-2009				39.42	3821.83
	28-Aug-2009				39.81	3821.44
26-May-2009	39.56	3821.69				
11-Dec-2008	38.84	3822.41				
27-Sep-2008	39.20	3822.05				
10-Jun-2008	39.90	3821.35				
6-Feb-2008	39.77	3821.48				
14-Nov-2007	39.01	3822.24				
11-Sep-2007	39.60	3821.65				
70-04	13-Aug-2014	422798.94	1510922.20	3849.81	35.31	3814.50
	12-May-2014				34.81	3815.00
	12-Feb-2014				33.52	3816.29
	7-Nov-2013				34.05	3815.76
	6-Aug-2013				32.03	3817.78
	7-May-2013				31.80	3818.01
	7-Feb-2013				31.85	3817.96
Buena Vista Dairy I						
86-01	13-Aug-2014	421534.62	1511667.76	3864.96	50.29	3814.67
	12-May-2014				50.20	3814.76
	17-Feb-2014				48.87	3816.09
	6-Nov-2013				42.33	3822.63
	6-Aug-2013				47.43	3817.53
	7-May-2013				47.21	3817.75
	7-Feb-2013				47.35	3817.61
	24-Oct-2012				47.61	3817.35
	30-Jul-2012				47.26	3817.70
	23-Apr-2012				46.86	3818.10
	30-Jan-2012				46.34	3818.62
	8-Dec-2011				46.22	3818.74
	19-Jul-2011				45.66	3819.30
	20-Apr-2011				44.28	3820.68
	17-Jan-2011				44.30	3820.66
	16-Sep-2010				44.09	3820.87
	24-Jun-2010				44.39	3820.57
	22-Mar-2010				44.19	3820.77
	8-Dec-2009				43.89	3821.07
	28-Aug-2009				43.96	3821.00
	26-May-2009				44.03	3820.93
	11-Dec-2008				43.53	3821.43
	28-Sep-2008				43.60	3821.36
10-Jun-2008	44.44	3820.52				
5-Feb-2008	43.69	3821.27				
13-Nov-2007	43.78	3821.18				
12-Sep-2007	44.21	3820.75				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
86-02	12-Aug-2014	421792.08	1510881.53	3848.08	32.62	3815.46
	12-May-2014				32.70	3815.38
	12-Feb-2014				31.62	3816.46
	6-Nov-2013				31.68	3816.40
	6-Aug-2013				30.37	3817.71
	7-May-2013				30.13	3817.95
	7-Feb-2013				30.07	3818.01
	24-Oct-2012				29.71	3818.37
	30-Jul-2012				29.71	3818.37
	23-Apr-2012				29.43	3818.65
	30-Jan-2012				28.94	3819.14
	8-Dec-2011				28.77	3819.31
	19-Jul-2011				27.74	3820.34
	20-Apr-2011				27.18	3820.90
	17-Jan-2011				26.34	3821.74
	16-Sep-2010				26.18	3821.90
	24-Jun-2010				26.79	3821.29
	22-Mar-2010				26.54	3821.54
	8-Dec-2009				26.33	3821.75
	28-Aug-2009				26.11	3821.97
26-May-2009	26.29	3821.79				
11-Dec-2008	25.77	3822.31				
28-Sep-2008	25.78	3822.3				
10-Jun-2008	26.65	3821.43				
5-Feb-2008	26.95	3821.13				
13-Nov-2007	25.88	3822.2				
12-Sep-2007	26.19	3821.89				
Bright Star Dairy						
340-01	12-Aug-2014	421410.13	1511423.42	3858.48	43.32	3815.16
	12-May-2014				43.49	3814.99
	12-Feb-2014				42.30	3816.18
	6-Nov-2013				42.33	3816.15
	6-Aug-2013				41.21	3817.27
	7-May-2013				40.80	3817.68
	7-Feb-2013				40.75	3817.73
	24-Oct-2012				40.82	3817.66
	30-Jul-2012				40.44	3818.04
	23-Apr-2012				40.16	3818.32
	25-Jan-2012				39.70	3818.78
	8-Dec-2011				39.54	3818.94
	19-Jul-2011				38.74	3819.74
	20-Apr-2011				38.14	3820.34
	17-Jan-2011				37.33	3821.15
	14-Sep-2010				37.20	3821.28
	24-Jun-2010				38.05	3820.43
	22-Mar-2010				37.48	3821.00
	8-Dec-2009				37.26	3821.22
	28-Aug-2009				37.10	3821.38
26-May-2009	37.26	3821.22				
11-Dec-2008	36.79	3821.69				
27-Sep-2008	36.77	3821.71				
10-Jun-2008	37.63	3820.85				
6-Feb-2008	37.03	3821.45				
14-Nov-2007	37.00	3821.48				
11-Sep-2007	37.36	3821.12				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
340-02	12-Aug-2014	420641.08	1512051.57	3869.76	54.65	3815.11
	12-May-2014				54.80	3814.96
	12-Feb-2014				53.80	3815.96
	6-Nov-2013				53.59	3816.17
	6-Aug-2013				52.92	3816.84
	7-May-2013				52.34	3817.42
	7-Feb-2013				52.29	3817.47
	24-Oct-2012				52.26	3817.50
	30-Jul-2012				51.67	3818.09
	23-Apr-2012				51.61	3818.15
	25-Jan-2012				51.31	3818.45
	8-Dec-2011				51.07	3818.69
	19-Jul-2011				50.24	3819.52
	20-Apr-2011				48.86	3820.90
	17-Jan-2011				49.00	3820.76
	14-Sep-2010				48.80	3820.96
	24-Jun-2010				49.67	3820.09
	22-Mar-2010				49.17	3820.59
	8-Dec-2009				49.03	3820.73
	28-Aug-2009				48.79	3820.97
26-May-2009	48.94	3820.82				
11-Dec-2008	48.62	3821.14				
28-Sep-2008	48.48	3821.28				
10-Jun-2008	49.30	3820.46				
5-Feb-2008	48.90	3820.86				
14-Nov-2007	48.84	3820.92				
12-Sep-2007	49.28	3820.48				
Former D&J Dairy (Dominguez 2)						
42-02	13-Aug-2014	419982.45	1511126.19	3844.68575	27.44	3817.25
	13-May-2014				28.53	3816.16
	12-Feb-2014				27.97	3816.72
	6-Nov-2013				26.34	3818.35
	14-Aug-2013				26.66	3818.03
	7-May-2013				26.53	3818.16
	7-Feb-2013				26.48	3818.21
	24-Oct-2012				25.91	3818.78
	31-Jul-2012				25.05	3819.64
	23-Apr-2012				25.46	3819.23
	26-Jan-2012				25.71	3818.98
	8-Dec-2011				25.35	3819.34
	19-Jul-2011				23.15	3821.54
	19-Apr-2011				22.80	3821.89
	18-Jan-2011				23.30	3821.39
	15-Sep-2010				22.34	3822.35
	24-Jun-2010				22.84	3821.85
	22-Mar-2010				23.16	3821.53
	8-Dec-2009				22.87	3821.82
	28-Aug-2009				22.43	3822.26
26-May-2009	22.73	3821.96				
11-Dec-2008	22.91	3821.78				
27-Sep-2008	22.28	3822.41				
10-Jun-2008	23.12	3821.57				
6-Feb-2008	23.43	3821.26				
13-Nov-2007	23.00	3821.69				
12-Sep-2007	23.15	3821.54				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
42-03	12-Aug-2014	419710.55	1514064.35	3898.46	84.73	3813.73
	13-May-2014				85.05	3813.41
	12-Feb-2014				83.40	3815.06
	6-Nov-2013				83.89	3814.57
	6-Aug-2013				82.46	3816.00
	7-May-2013				81.97	3816.49
	7-Feb-2013				82.01	3816.45
	24-Oct-2012				82.70	3815.76
	31-Jul-2012				82.49	3815.97
	23-Apr-2012				81.57	3816.89
	25-Jan-2012				81.18	3817.28
	8-Dec-2011				81.26	3817.20
	19-Jul-2011				81.33	3817.13
	19-Apr-2011				80.21	3818.25
	18-Jan-2011				79.33	3819.13
	15-Sep-2010				79.91	3818.55
	24-Jun-2010				81.12	3817.34
	22-Mar-2010				79.57	3818.89
	8-Dec-2009				79.12	3819.34
	28-Aug-2009				79.26	3819.20
26-May-2009	79.42	3819.04				
11-Dec-2008	78.89	3819.57				
27-Sep-2008	78.91	3819.55				
10-Jun-2008	79.91	3818.55				
6-Feb-2008	79.76	3818.70				
13-Nov-2007	79.15	3819.31				
12-Sep-2007	79.71	3818.75				
42-06	13-Aug-2014	420021.61	1511465.15	3850.15	33.65	3816.50
	13-May-2014				34.50	3815.65
	12-Feb-2014				33.85	3816.30
	6-Nov-2013				31.68	3818.47
	6-Aug-2013				31.24	3818.91
	7-May-2013				32.71	3817.44
	7-Feb-2013				32.30	3817.85
	24-Oct-2012				31.80	3818.35
	31-Jul-2012				31.15	3819.00
	23-Apr-2012				31.37	3818.78
	25-Jan-2012				31.51	3818.64
	8-Dec-2011				31.19	3818.96
	19-Jul-2011				29.37	3820.78
	19-Apr-2011				29.66	3820.49
	18-Jan-2011				29.18	3820.97
	15-Sep-2010				28.36	3821.79
	24-Jun-2010				28.96	3821.19
	22-Mar-2010				29.04	3821.11
	8-Dec-2009				28.90	3821.25
	28-Aug-2009				28.44	3821.71
26-May-2009	28.70	3821.45				
11-Dec-2008	28.75	3821.40				
27-Sep-2008	28.27	3821.88				
10-Jun-2008	29.03	3821.12				
6-Feb-2008	29.24	3820.91				
13-Nov-2007	28.87	3821.28				
12-Sep-2007	29.03	3821.12				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
42-07	13-Aug-2014	420584.8	1513076.66	3891.52	Dry	
	13-May-2014				Dry	
	12-Feb-2014				Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	24-Oct-2012				Dry	
	31-Jul-2012				Dry	
	23-Apr-2012				Dry	
	25-Jan-2012				Dry	
	8-Dec-2011				Dry	
	19-Jul-2011				Dry	
	19-Apr-2011				72.19	3819.33
	18-Jan-2011				71.37	3820.15
	15-Sep-2010				71.64	3819.88
	24-Jun-2010				72.24	3819.28
	22-Mar-2010				71.43	3820.09
	8-Dec-2009				71.26	3820.26
	28-Aug-2009				71.26	3820.26
	26-May-2009				71.31	3820.21
	11-Dec-2008				70.87	3820.65
	27-Sep-2008				70.95	3820.57
10-Jun-2008	71.71	3819.81				
6-Feb-2008	71.00	3820.52				
13-Nov-2007	71.12	3820.40				
12-Sep-2007	71.61	3819.91				
42-08	13-Aug-2014	419994.93	1511197.91	3846.53	29.54	3816.99
	13-May-2014				30.68	3815.85
	12-Feb-2014				29.98	3816.55
	6-Nov-2013				28.26	3818.27
	6-Aug-2013				27.97	3818.56
	7-May-2013				28.69	3817.84
	7-Feb-2013				28.43	3818.10
	24-Oct-2012				27.92	3818.61
	31-Jul-2012				27.11	3819.42
	23-Apr-2012				27.51	3819.02
	26-Jan-2012				27.68	3818.85
	8-Dec-2011				27.33	3819.20
	19-Jul-2011				25.24	3821.29
	19-Apr-2011				25.72	3820.81
	18-Jan-2011				25.28	3821.25
	15-Sep-2010				24.37	3822.16
	24-Jun-2010				24.91	3821.62
	22-Mar-2010				25.15	3821.38
	8-Dec-2009				24.91	3821.62
	28-Aug-2009				24.46	3822.07
	26-May-2009				24.75	3821.78
	11-Dec-2008				24.88	3821.65
	27-Sep-2008				24.30	3822.23
10-Jun-2008	25.13	3821.40				
6-Feb-2008	25.41	3821.12				
13-Nov-2007	25.00	3821.53				
12-Sep-2007	25.13	3821.40				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
42-09	12-Aug-2014	419729.17	1512255.76	3865.25	49.45	3815.80
	13-May-2014				49.85	3815.40
	12-Feb-2014				49.36	3815.89
	6-Nov-2013				48.23	3817.02
	6-Aug-2013				47.88	3817.37
	7-May-2013				48.04	3817.21
	7-Feb-2013				47.79	3817.46
	24-Oct-2012				47.29	3817.96
	31-Jul-2012				46.98	3818.27
	23-Apr-2012				46.93	3818.32
	25-Jan-2012				46.95	3818.30
	8-Dec-2011				46.76	3818.49
	19-Jul-2011				45.54	3819.71
	19-Apr-2011				45.38	3819.87
	18-Jan-2011				44.87	3820.38
	15-Sep-2010				44.21	3821.04
	24-Jun-2010				44.99	3820.26
	22-Mar-2010				44.72	3820.53
	8-Dec-2009				44.70	3820.55
	28-Aug-2009				44.32	3820.93
26-May-2009	44.50	3820.75				
11-Dec-2008	44.39	3820.86				
27-Sep-2008	44.12	3821.13				
10-Jun-2008	44.77	3820.48				
6-Feb-2008	44.80	3820.45				
13-Nov-2007	44.47	3820.78				
12-Sep-2007	44.73	3820.52				
42-10	14-Aug-2014	421426.39	1514460.4	3929.28	115.37	3813.91
	13-May-2014				115.15	3814.13
	12-Feb-2014				113.97	3815.31
	6-Nov-2013				115.21	3814.07
	6-Aug-2013				113.03	3816.25
	7-May-2013				112.81	3816.47
	7-Feb-2013				112.29	3816.99
	24-Oct-2012				112.95	3816.33
	31-Jul-2012				112.87	3816.41
	23-Apr-2012				111.87	3817.41
	25-Jan-2012				110.98	3818.30
	8-Dec-2011				111.16	3818.12
	19-Jul-2011				111.21	3818.07
	19-Apr-2011				110.06	3819.22
	18-Jan-2011				109.19	3820.09
	15-Sep-2010				110.24	3819.04
	27-Jun-2010				110.35	3818.93
	22-Mar-2010				109.47	3819.81
	8-Dec-2009				109.41	3819.87
	28-Aug-2009				109.67	3819.61
26-May-2009	109.53	3819.75				
11-Dec-2008	109.00	3820.28				
27-Sep-2008	109.49	3819.79				
11-Jun-2008	109.88	3819.40				
6-Feb-2008	108.98	3820.30				
14-Nov-2007	109.36	3819.92				
12-Sep-2007	109.92	3819.36				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
42-11	14-Aug-2014	420693.98	1515270.32	3939.31	125.85	3813.46
	13-May-2014				125.27	3814.04
	12-Feb-2014				123.96	3815.35
	6-Nov-2013				125.37	3813.94
	6-Aug-2013				124.06	3815.25
	7-May-2013				123.24	3816.07
	7-Feb-2013				122.91	3816.40
	24-Oct-2012				123.44	3815.87
	31-Jul-2012				123.11	3816.20
	23-Apr-2012				122.09	3817.22
	25-Jan-2012				121.67	3817.64
	8-Dec-2011				121.83	3817.48
	19-Jul-2011				121.73	3817.58
	19-Apr-2011				120.64	3818.67
	18-Jan-2011				120.01	3819.30
	15-Sep-2010				121.02	3818.29
	27-Jun-2010				121.05	3818.26
	22-Mar-2010				120.18	3819.13
	8-Dec-2009				120.21	3819.10
	28-Aug-2009				120.51	3818.80
26-May-2009	120.35	3818.96				
11-Dec-2008	119.88	3819.43				
27-Sep-2008	120.29	3819.02				
11-Jun-2008	120.57	3818.74				
6-Feb-2008	119.84	3819.47				
14-Nov-2007	120.24	3819.07				
12-Sep-2007	120.74	3818.57				
42-12	14-Aug-2014	420972.09	1515423.88	3945.83	132.13	3813.70
	13-May-2014				131.63	3814.20
	12-Feb-2014				129.89	3815.94
	6-Nov-2013				131.11	3814.72
	6-Aug-2013				130.08	3815.75
	7-May-2013				129.59	3816.24
	7-Feb-2013				129.18	3816.65
	24-Oct-2012				129.74	3816.09
	31-Jul-2012				129.44	3816.39
	23-Apr-2012				128.71	3817.12
	25-Jan-2012				128.06	3817.77
	8-Dec-2011				128.14	3817.69
	19-Jul-2011				128.01	3817.82
	19-Apr-2011				126.37	3819.46
	18-Jan-2011				126.37	3819.46
	15-Sep-2010				127.38	3818.45
	27-Jun-2010				127.43	3818.40
	22-Mar-2010				126.50	3819.33
	8-Dec-2009				126.60	3819.23
	28-Aug-2009				126.84	3818.99
26-May-2009	126.68	3819.15				
11-Dec-2008	126.18	3819.65				
27-Sep-2008	126.68	3819.15				
11-Jun-2008	126.88	3818.95				
6-Feb-2008	126.16	3819.67				
14-Nov-2007	126.55	3819.28				
12-Sep-2007	127.04	3818.79				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
42-13	12-Aug-2014	419734.06	1512534.42	3873.10	57.56	3815.54
	13-May-2014				57.95	3815.15
	17-Feb-2014				57.38	3815.72
	6-Nov-2013				56.31	3816.79
	6-Aug-2013				56.01	3817.09
	7-May-2013				56.02	3817.08
	7-Feb-2013				55.86	3817.24
	24-Oct-2012				55.40	3817.70
	31-Jul-2012				55.17	3817.93
	23-Apr-2012				54.96	3818.14
	25-Jan-2012				54.99	3818.11
	8-Dec-2011				54.83	3818.27
	19-Jul-2011				53.77	3819.33
	19-Apr-2011				53.50	3819.60
	18-Jan-2011				52.95	3820.15
	15-Sep-2010				52.44	3820.66
	24-Jun-2010				53.21	3819.89
	22-Mar-2010				52.84	3820.26
	8-Dec-2009				52.79	3820.31
	28-Aug-2009				52.45	3820.65
26-May-2009	52.64	3820.46				
11-Dec-2008	52.49	3820.61				
27-Sep-2008	52.23	3820.87				
10-Jun-2008	52.91	3820.19				
6-Feb-2008	52.84	3820.26				
13-Nov-2007	52.56	3820.54				
12-Sep-2007	52.83	3820.27				
Dominguez Dairy						
624-01	12-Aug-2014	418826.21	1512131.46	3843.72	26.64	3817.08
	12-May-2014				27.38	3816.34
	12-Feb-2014				28.10	3815.62
	7-Nov-2013				26.34	3817.38
	6-Aug-2013				25.98	3817.74
	7-May-2013				26.21	3817.51
	7-Feb-2013				26.39	3817.33
	24-Oct-2012				25.89	3817.83
	30-Jul-2012				26.12	3817.60
	24-Apr-2012				26.02	3817.70
	25-Jan-2012				25.51	3818.21
	7-Dec-2011				25.19	3818.53
	19-Jul-2011				23.22	3820.50
	19-Apr-2011				23.75	3819.97
	18-Jan-2011				23.53	3820.19
	15-Sep-2010				21.40	3822.32
	24-Jun-2010				22.48	3821.24
	22-Mar-2010				22.83	3820.89
	8-Dec-2009				23.33	3820.39
	28-Aug-2009				22.72	3821.00
27-May-2009	22.92	3820.80				
11-Dec-2008	23.11	3820.61				
27-Sep-2008	22.62	3821.10				
10-Jun-2008	22.72	3821.00				
5-Feb-2008	23.64	3820.08				
13-Nov-2007	22.87	3820.85				
12-Sep-2007	22.94	3820.78				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
624-02	12-Aug-2014	417335.25	1512201.42	3835.45	19.12	3816.33
	12-May-2014				19.00	3816.45
	12-Feb-2014				20.00	3815.45
	7-Nov-2013				18.60	3816.85
	6-Aug-2013				18.83	3816.62
	7-May-2013				19.01	3816.44
	7-Feb-2013				19.10	3816.35
	24-Oct-2012				18.85	3816.60
	30-Jul-2012				18.59	3816.86
	23-Apr-2012				17.97	3817.48
	24-Jan-2012				17.16	3818.29
	7-Dec-2011				17.30	3818.15
	19-Jul-2011				15.23	3820.22
	19-Apr-2011				15.94	3819.51
	17-Jan-2011				15.66	3819.79
	20-Sep-2010				14.04	3821.41
	24-Jun-2010				13.93	3821.52
	22-Mar-2010				15.24	3820.21
	8-Dec-2009				15.61	3819.84
	28-Aug-2009				14.85	3820.60
	27-May-2009				15.14	3820.31
	11-Dec-2008				15.47	3819.98
	27-Sep-2008				14.97	3820.48
	10-Jun-2008				14.87	3820.58
5-Feb-2008	16.50	3818.95				
13-Nov-2007	15.40	3820.05				
12-Sep-2007	14.94	3820.51				
624-04	12-Aug-2014	418542.24	1508104.07	3835.69	Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	24-Oct-2012				Dry	
	30-Jul-2012				Dry	
	23-Apr-2012				Dry	
	25-Jan-2012				Dry	
	8-Dec-2011				Dry	
	19-Jul-2011				15.39	3820.30
	19-Apr-2011				13.66	3822.03
	18-Jan-2011				13.99	3821.70
	15-Sep-2010				11.43	3824.26
	24-Jun-2010				13.49	3822.20
	22-Mar-2010				14.83	3820.86
	8-Dec-2009				13.48	3822.21
	28-Aug-2009				12.49	3823.20
	26-May-2009				12.89	3822.80
	11-Dec-2008				12.99	3822.70
	27-Sep-2008				12.31	3823.38
	10-Jun-2008				14.45	3821.24
5-Feb-2008	14.13	3821.56				
13-Nov-2007	13.60	3822.09				
12-Sep-2007	14.83	3820.86				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
624-05	12-Aug-2014	419777.52	1509829.65	3835.27	Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				16.72	3818.55
	24-Oct-2012				16.35	3818.92
	30-Jul-2012				15.89	3819.38
	23-Apr-2012				15.90	3819.37
	25-Jan-2012				15.81	3819.46
	7-Dec-2011				15.25	3820.02
	3-Aug-2011				13.38	3821.89
	19-Apr-2011				13.86	3821.41
	18-Jan-2011				13.11	3822.16
	15-Sep-2010				12.01	3823.26
	24-Jun-2010				12.71	3822.56
	22-Mar-2010				13.21	3822.06
	8-Dec-2009				12.54	3822.73
	28-Aug-2009				12.03	3823.24
	26-May-2009				12.58	3822.69
	11-Dec-2008				12.82	3822.45
	27-Sep-2008				11.97	3823.30
10-Jun-2008	13.19	3822.08				
5-Feb-2008	13.44	3821.83				
13-Nov-2007	13.01	3822.26				
12-Sep-2007	13.31	3821.96				
624-06	12-Aug-2014	418502.42	1513981.08	3868.18	Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				51.84	3816.34
	24-Oct-2012				51.99	3816.19
	30-Jul-2012				51.30	3816.88
	23-Apr-2012				51.83	3816.35
	25-Jan-2012				51.80	3816.38
	13-Dec-2011				50.89	3817.29
	19-Jul-2011				50.43	3817.75
	19-Apr-2011				49.79	3818.39
	18-Jan-2011				49.31	3818.87
	21-Sep-2010				48.73	3819.45
	24-Jun-2010				50.33	3817.85
	22-Mar-2010				49.62	3818.56
	8-Dec-2009				48.96	3819.22
	28-Aug-2009				48.87	3819.31
	26-May-2009				49.14	3819.04
	11-Dec-2008				48.89	3819.29
	27-Sep-2008				48.71	3819.47
10-Jun-2008	49.67	3818.51				
5-Feb-2008	49.11	3819.07				
13-Nov-2007	48.94	3819.24				
12-Sep-2007	49.17	3819.01				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
624-07	12-Aug-2014	418012.23	1514707.77	3872.25	55.68	3816.57
	12-May-2014				55.61	3816.64
	12-Feb-2014				55.62	3816.63
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	24-Oct-2012				55.58	3816.67
	30-Jul-2012				55.47	3816.78
	23-Apr-2012				Dry	
	25-Jan-2012				55.50	3816.75
	13-Dec-2011				55.46	3816.79
	19-Jul-2011				54.55	3817.70
	19-Apr-2011				54.64	3817.61
	18-Jan-2011				53.91	3818.34
	15-Sep-2010				52.30	3819.95
	24-Jun-2010				55.27	3816.98
	22-Mar-2010				54.21	3818.04
	8-Dec-2009				53.32	3818.93
	28-Aug-2009				53.22	3819.03
	26-May-2009				53.76	3818.49
	11-Dec-2008				53.59	3818.66
	27-Sep-2008				53.35	3818.90
	10-Jun-2008				54.34	3817.91
	5-Feb-2008				53.81	3818.44
	13-Nov-2007				53.26	3818.99
12-Sep-2007	53.03	3819.22				
624-08	12-Aug-2014	421461.78	1507712.04	3838.70	Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	24-Oct-2012				Dry	
	30-Jul-2012				Dry	
	23-Apr-2012				Dry	
	25-Jan-2012				Dry	
	8-Dec-2011				Dry	
	3-Aug-2011				Dry	
	18-Apr-2011				17.72	3820.98
	18-Jan-2011				16.03	3822.67
	14-Sep-2010				14.83	3823.87
	24-Jun-2010				16.44	3822.26
	22-Mar-2010				16.42	3822.28
	8-Dec-2009				16.02	3822.68
	28-Aug-2009				15.20	3823.50
	26-May-2009				15.54	3823.16
	11-Dec-2008				14.96	3823.74
	27-Sep-2008				14.84	3823.86
	10-Jun-2008				16.12	3822.58
	5-Feb-2008				15.37	3823.33
	13-Nov-2007				14.71	3823.99
12-Sep-2007	15.33	3823.37				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Gonzalez Dairy						
177-01	13-Aug-2014	417300.94	1512942.63	3834.27	17.33	3816.94
	13-May-2014				18.53	3815.74
	12-Feb-2014				19.05	3815.22
	7-Nov-2013				17.97	3816.30
	6-Aug-2013				17.01	3817.26
	7-May-2013				17.81	3816.46
	7-Feb-2013				17.77	3816.50
	25-Oct-2012				15.91	3818.36
	30-Jul-2012				14.88	3819.39
	23-Apr-2012				16.32	3817.95
	26-Jan-2012				16.71	3817.56
	7-Dec-2011				16.36	3817.91
	19-Jul-2011				14.64	3819.63
	19-Apr-2011				14.84	3819.43
	17-Jan-2011				14.43	3819.84
	15-Sep-2010				13.30	3820.97
	23-Jun-2010				14.11	3820.16
	22-Mar-2010				14.75	3819.52
	8-Dec-2009				14.68	3819.59
	28-Aug-2009				14.16	3820.11
26-May-2009	14.35	3819.92				
10-Dec-2008	14.64	3819.63				
27-Sep-2008	14.21	3820.06				
10-Jun-2008	14.50	3819.77				
6-Feb-2008	15.06	3819.21				
13-Nov-2007	14.53	3819.74				
13-Sep-2007	14.03	3820.24				
177-02	13-Aug-2014	416738.21	1513246.51	3834.66	18.21	3816.45
	13-May-2014				19.24	3815.42
	12-Feb-2014				19.72	3814.94
	7-Nov-2013				18.66	3816.00
	6-Aug-2013				18.30	3816.36
	7-May-2013				18.69	3815.97
	7-Feb-2013				18.50	3816.16
	25-Oct-2012				17.35	3817.31
	30-Jul-2012				17.80	3816.86
	24-Jan-2012				17.61	3817.05
	7-Dec-2011				16.92	3817.74
	19-Jul-2011				15.41	3819.25
	19-Apr-2011				15.47	3819.19
	17-Jan-2011				14.94	3819.72
	15-Sep-2010				14.23	3820.43
	23-Jun-2010				14.86	3819.80
	22-Mar-2010				15.59	3819.07
	8-Dec-2009				15.29	3819.37
	28-Aug-2009				14.90	3819.76
	26-May-2009				15.09	3819.57
10-Dec-2008	15.37	3819.29				
27-Sep-2008	14.95	3819.71				
10-Jun-2008	15.41	3819.25				
6-Feb-2008	15.74	3818.92				
13-Nov-2007	15.39	3819.27				
13-Sep-2007	14.72	3819.94				
177-03A	13-Aug-2014	416206.71	1513777.17	3835.75	20.51	3815.24
	12-May-2014				21.60	3814.15
	12-Feb-2014				21.41	3814.34
	7-Nov-2013				20.29	3815.46
	6-Aug-2013				19.99	3815.76
	7-May-2013				20.53	3815.22
	7-Feb-2013				20.01	3815.74
	25-Oct-2012				19.18	3816.57
	30-Jul-2012				18.24	3817.51
	24-Apr-2012				18.57	3817.18
	24-Jan-2012				18.63	3817.12
	13-Dec-2011				18.51	3817.24

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
177-04	13-Aug-2014	416796.99	1513733.28	3840.33	24.52	3815.81
	13-May-2014				25.46	3814.87
	12-Feb-2014				25.62	3814.71
	7-Nov-2013				24.75	3815.58
	6-Aug-2013				24.12	3816.21
	7-May-2013				24.67	3815.66
	7-Feb-2013				24.29	3816.04
	25-Oct-2012				23.49	3816.84
	30-Jul-2012				22.68	3817.65
	24-Apr-2012				23.36	3816.97
	24-Jan-2012				22.47	3817.86
	7-Dec-2011				22.97	3817.36
	19-Jul-2011				21.66	3818.67
	19-Apr-2011				21.41	3818.92
	17-Jan-2011				21.22	3819.11
	15-Sep-2010				20.36	3819.97
	23-Jun-2010				21.05	3819.28
	22-Mar-2010				21.71	3818.62
	8-Dec-2009				21.14	3819.19
	28-Aug-2009				20.86	3819.47
27-May-2009	21.13	3819.20				
10-Dec-2008	21.37	3818.96				
27-Sep-2008	20.86	3819.47				
10-Jun-2008	21.63	3818.70				
6-Feb-2008	21.59	3818.74				
13-Nov-2007	21.30	3819.03				
13-Sep-2007	20.84	3819.49				
177-05	13-Aug-2014	417302.42	1514116.55	3852.16	36.70	3815.46
	13-May-2014				37.60	3814.56
	12-Feb-2014				37.51	3814.65
	6-Nov-2013				36.95	3815.21
	6-Aug-2013				36.02	3816.14
	7-May-2013				36.74	3815.42
	7-Feb-2013				36.21	3815.95
	25-Oct-2012				35.72	3816.44
	30-Jul-2012				36.39	3815.77
	24-Apr-2012				36.04	3816.12
	24-Jan-2012				35.02	3817.14
	7-Dec-2011				35.19	3816.97
	19-Jul-2011				34.07	3818.09
	19-Apr-2011				32.91	3819.25
	17-Jan-2011				33.72	3818.44
	15-Sep-2010				32.68	3819.48
	23-Jun-2010				33.59	3818.57
	22-Mar-2010				34.10	3818.06
	8-Dec-2009				33.22	3818.94
	28-Aug-2009				32.95	3819.21
26-May-2009	33.26	3818.90				
10-Dec-2008	33.60	3818.56				
27-Sep-2008	32.95	3819.21				
10-Jun-2008	33.96	3818.20				
6-Feb-2008	33.58	3818.58				
13-Nov-2007	33.27	3818.89				
13-Sep-2007	33.12	3819.04				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
177-06	13-Aug-2014	417301.84	1514765.63	3866.02	Dry	
	12-May-2014				Dry	
	12-Feb-2014				Dry	
	7-Nov-2013				51.65	3814.37
	6-Aug-2013				51.11	3814.91
	7-May-2013				51.50	3814.52
	7-Feb-2013				50.43	3815.59
	25-Oct-2012				50.81	3815.21
	30-Jul-2012				51.09	3814.93
	24-Apr-2012				Dry	
	24-Jan-2012				49.40	3816.62
	7-Dec-2011				49.85	3816.17
	19-Jul-2011				49.31	3816.71
	19-Apr-2011				48.92	3817.10
	17-Jan-2011				48.18	3817.84
	15-Sep-2010				47.64	3818.38
	23-Jun-2010				48.79	3817.23
	22-Mar-2010				49.12	3816.90
	8-Dec-2009				47.60	3818.42
	28-Aug-2009				47.53	3818.49
	26-May-2009				48.03	3817.99
	10-Dec-2008				48.72	3817.30
	27-Sep-2008				47.52	3818.50
10-Jun-2008	49.31	3816.71				
6-Feb-2008	48.00	3818.02				
13-Nov-2007	48.88	3817.14				
13-Sep-2007	48.84	3817.18				
177-07R	13-Aug-2014	415240.93	1515476.47	3858.91	45.50	3813.41
	13-May-2014				46.66	3812.25
	12-Feb-2014				45.90	3813.01
	7-Nov-2013				45.50	3813.41
	6-Aug-2013				45.51	3813.40
	7-May-2013				45.22	3813.69
	7-Feb-2013				44.44	3814.47
	25-Oct-2012				43.98	3814.93
	30-Jul-2012				43.60	3815.31
	24-Apr-2012				43.56	3815.35
	24-Jan-2012				43.08	3815.83
	7-Dec-2011				43.46	3815.45
	19-Jul-2011				42.91	3816.00
	19-Apr-2011				41.96	3816.95
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 ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
CENTRAL AREA						
Buena Vista Diary II						
74-01	13-Aug-2014	405434.93	1519310.15	3841.01	36.71	3804.30
	18-Jun-2014				37.09	3803.92
	12-Feb-2014				35.17	3805.84
	6-Nov-2013				35.77	3805.24
	6-Aug-2013				36.56	3804.45
	7-May-2013				35.02	3805.99
	7-Feb-2013				33.64	3807.37
	25-Oct-2012				34.94	3806.07
	31-Jul-2012				34.53	3806.48
	24-Apr-2012				34.27	3806.74
	24-Jan-2012				33.36	3807.65
	8-Dec-2011				33.63	3807.38
	19-Jul-2011				33.31	3807.70
	20-Apr-2011				31.97	3809.04
	21-Jan-2011				32.23	3808.78
	16-Sep-2010				31.97	3809.04
	23-Jun-2010				32.08	3808.93
	22-Mar-2010				32.07	3808.94
	8-Dec-2009				31.45	3809.56
	28-Aug-2009				32.20	3808.81
	26-May-2009				32.20	3808.81
	10-Dec-2008				31.31	3809.70
	27-Sep-2008				31.64	3809.37
	10-Jun-2008				32.00	3809.01
5-Feb-2008	31.66	3809.35				
14-Nov-2007	31.21	3809.80				
12-Sep-2007	31.63	3809.38				
Buena Vista Diary II Continued						
74-02	13-Aug-2014	404574.08	1519035.52	3820.58	17.50	3803.08
	18-Jun-2014				18.13	3802.45
	12-Feb-2014				15.75	3804.83
	6-Nov-2013				17.07	3803.51
	6-Aug-2013				17.55	3803.03
	7-May-2013				16.22	3804.36
	7-Feb-2013				15.84	3804.74
	25-Oct-2012				16.02	3804.56
	31-Jul-2012				15.09	3805.49
	24-Apr-2012				14.30	3806.28
	24-Jan-2012				13.96	3806.62
	8-Dec-2011				15.49	3805.09
	19-Jul-2011				14.19	3806.39
	20-Apr-2011				12.45	3808.13
	17-Jan-2011				12.53	3808.05
	16-Sep-2010				12.45	3808.13
	23-Jun-2010				12.87	3807.71
	22-Mar-2010				12.72	3807.86
	8-Dec-2009				11.88	3808.70
	28-Aug-2009				12.53	3808.05
	26-May-2009				12.70	3807.88
	10-Dec-2008				11.65	3808.93
	27-Sep-2008				12.03	3808.55
	10-Jun-2008				12.39	3808.19
5-Feb-2008	11.94	3808.64				
14-Nov-2007	11.52	3809.06				
12-Sep-2007	12.33	3808.25				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
74-03	13-Aug-2014	407163.61	1516711.72	3823.36	16.07	3807.29
	18-Jun-2014				16.73	3806.63
	12-Feb-2014				15.63	3807.73
	6-Nov-2013				15.53	3807.83
	6-Aug-2013				15.43	3807.93
	7-May-2013				14.85	3808.51
	7-Feb-2013				13.93	3809.43
	25-Oct-2012				14.22	3809.14
	31-Jul-2012				14.17	3809.19
	24-Apr-2012				13.99	3809.37
	24-Jan-2012				13.60	3809.76
	8-Dec-2011				13.70	3809.66
	19-Jul-2011				13.17	3810.19
	20-Apr-2011				12.11	3811.25
	17-Jan-2011				12.63	3810.73
	16-Sep-2010				12.41	3810.95
	23-Jun-2010				12.72	3810.64
	22-Mar-2010				12.94	3810.42
	8-Dec-2009				12.88	3810.48
	28-Aug-2009				12.63	3810.73
26-May-2009	12.94	3810.42				
10-Dec-2008	13.00	3810.36				
27-Sep-2008	12.94	3810.42				
10-Jun-2008	12.66	3810.7				
5-Feb-2008	12.94	3810.42				
14-Nov-2007	12.77	3810.59				
12-Sep-2007	12.53	3810.83				
74-04	13-Aug-2014	405488.65	1519864.48	3853.17	49.12	3804.05
	18-Jun-2014				49.35	3803.82
	12-Feb-2014				47.75	3805.42
	6-Nov-2013				48.06	3805.11
	6-Aug-2013				48.55	3804.62
	7-May-2013				47.45	3805.72
	7-Feb-2013				46.31	3806.86
	25-Oct-2012				46.96	3806.21
	31-Jul-2012				47.16	3806.01
	24-Apr-2012				47.05	3806.12
	24-Jan-2012				45.78	3807.39
	8-Dec-2011				45.98	3807.19
	19-Jul-2011				45.61	3807.56
	20-Apr-2011				44.19	3808.98
	17-Jan-2011				44.02	3809.15
	16-Sep-2010				44.19	3808.98
	23-Jun-2010				44.26	3808.91
	22-Mar-2010				44.25	3808.92
	8-Dec-2009				43.86	3809.31
	28-Aug-2009				44.49	3808.68
26-May-2009	44.56	3808.61				
10-Dec-2008	43.70	3809.47				
27-Sep-2008	43.99	3809.18				
10-Jun-2008	44.40	3808.77				
5-Feb-2008	43.41	3809.76				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
74-05	13-Aug-2014	404747.71	1519885.3	3845.35	42.28	3803.07
	18-Jun-2014				42.73	3802.62
	12-Feb-2014				40.76	3804.59
	6-Nov-2013				41.17	3804.18
	6-Aug-2013				41.80	3803.55
	7-May-2013				40.98	3804.37
	7-Feb-2013				39.40	3805.95
	25-Oct-2012				40.33	3805.02
	31-Jul-2012				40.19	3805.16
	24-Apr-2012				40.05	3805.30
	24-Jan-2012				38.78	3806.57
	8-Dec-2011				39.18	3806.17
	19-Jul-2011				38.84	3806.51
	20-Apr-2011				37.99	3807.36
	17-Jan-2011				36.96	3808.39
	16-Sep-2010				37.00	3808.35
	23-Jun-2010				37.44	3807.91
	22-Mar-2010				37.23	3808.12
	8-Dec-2009				36.74	3808.61
	28-Aug-2009				37.32	3808.03
26-May-2009	37.47	3807.88				
10-Dec-2008	36.53	3808.82				
27-Sep-2008	36.88	3808.47				
10-Jun-2008	37.39	3807.96				
5-Feb-2008	36.77	3808.58				
River Valley Dairy						
167-01	13-Aug-2014	402518.37	1518459.71	3818.94	18.49	3800.45
	18-Jun-2014				19.77	3799.17
	12-Feb-2014				16.81	3802.13
	6-Nov-2013				18.82	3800.12
	6-Aug-2013				19.11	3799.83
	7-May-2013				18.43	3800.51
	7-Feb-2013				17.02	3801.92
	25-Oct-2012				17.23	3801.71
	31-Jul-2012				16.91	3802.03
	24-Apr-2012				16.01	3802.93
	24-Jan-2012				14.60	3804.34
	8-Dec-2011				15.06	3803.88
	19-Jul-2011				16.81	3802.13
	25-Apr-2011				14.51	3804.43
	17-Jan-2011				12.33	3806.61
	15-Sep-2010				12.19	3806.75
	25-Jun-2010				13.31	3805.63
	22-Mar-2010				13.46	3805.48
	8-Dec-2009				12.11	3806.83
	28-Aug-2009				11.99	3806.95
26-May-2009	12.43	3806.51				
10-Dec-2008	12.13	3806.81				
27-Sep-2008	12.09	3806.85				
10-Jun-2008	12.95	3805.99				
5-Feb-2008	12.62	3806.32				
14-Nov-2007	12.68	3806.26				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
167-01A	13-Aug-2014	402518.18	1518936.72	3818.88	18.34	3800.54
	18-Jun-2014				19.65	3799.23
	12-Feb-2014				16.79	3802.09
	6-Nov-2013				18.19	3800.69
	6-Aug-2013				18.54	3800.34
	7-May-2013				18.22	3800.66
	7-Feb-2013				17.45	3801.43
	25-Oct-2012				17.38	3801.50
	31-Jul-2012				17.08	3801.80
	24-Apr-2012				16.29	3802.59
	24-Jan-2012				14.59	3804.29
	13-Dec-2011				15.13	3803.75
	19-Jul-2011				16.04	3802.84
	25-Apr-2011				14.13	3804.75
	17-Jan-2011				12.38	3806.50
	15-Sep-2010				12.21	3806.67
	22-Jun-2010				13.74	3805.14
	22-Mar-2010				13.22	3805.66
	8-Dec-2009				12.17	3806.71
	28-Aug-2009				12.23	3806.65
26-May-2009	12.62	3806.26				
10-Dec-2008	12.03	3806.85				
27-Sep-2008	12.18	3806.70				
10-Jun-2008	13.16	3805.72				
167-02	13-Aug-2014	402498.3	1519354.81	3819.64	19.35	3800.29
	18-Jun-2014				Dry	
	12-Feb-2014				17.94	3801.70
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	25-Oct-2012				Dry	
	31-Jul-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				15.84	3803.80
	8-Dec-2011				15.92	3803.72
	19-Jul-2011				Dry	
	25-Apr-2011				13.48	3806.16
	17-Jan-2011				13.49	3806.15
	15-Sep-2010				13.68	3805.96
	22-Jun-2010				15.23	3804.41
	22-Mar-2010				14.69	3804.95
	8-Dec-2009				13.32	3806.32
	28-Aug-2009				13.65	3805.99
	26-May-2009				13.86	3805.78
	10-Dec-2008				13.43	3806.21
	27-Sep-2008				13.71	3805.93
	10-Jun-2008				14.70	3804.94
	5-Feb-2008				13.54	3806.10
	14-Nov-2007				13.65	3805.99
	11-Sep-2007				13.98	3805.66

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
167-03	13-Aug-2014	402981.73	1519415.73	3825.66	24.81	3800.85
	18-Jun-2014				25.84	3799.82
	12-Feb-2014				23.04	3802.62
	6-Nov-2013				24.79	3800.87
	6-Aug-2013				25.27	3800.39
	7-May-2013				22.99	3802.67
	7-Feb-2013				22.06	3803.60
	25-Oct-2012				23.49	3802.17
	31-Jul-2012				22.63	3803.03
	24-Apr-2012				21.97	3803.69
	24-Jan-2012				20.94	3804.72
	8-Dec-2011				21.73	3803.93
	19-Jul-2011				23.22	3802.44
	25-Apr-2011				18.78	3806.88
	17-Jan-2011				18.86	3806.80
	15-Sep-2010				18.81	3806.85
	22-Jun-2010				19.90	3805.76
	22-Mar-2010				19.71	3805.95
	8-Dec-2009				18.62	3807.04
	28-Aug-2009				18.90	3806.76
	27-May-2009				19.26	3806.40
10-Dec-2008	18.41	3807.25				
27-Sep-2008	18.72	3806.94				
10-Jun-2008	19.82	3805.84				
5-Feb-2008	18.64	3807.02				
14-Nov-2007	18.55	3807.11				
11-Sep-2007	19.02	3806.64				
167-04	13-Aug-2014	402032.19	1519884.6	3827.60	26.91	3800.69
	18-Jun-2014				27.94	3799.66
	12-Feb-2014				25.42	3802.18
	6-Nov-2013				26.38	3801.22
	6-Aug-2013				26.70	3800.90
	7-May-2013				25.59	3802.01
	7-Feb-2013				24.84	3802.76
	25-Oct-2012				25.60	3802.00
	31-Jul-2012				25.19	3802.41
	24-Apr-2012				25.05	3802.55
	24-Jan-2012				23.36	3804.24
	8-Dec-2011				24.01	3803.59
	19-Jul-2011				24.36	3803.24
	25-Apr-2011				21.23	3806.37
	17-Jan-2011				21.18	3806.42
	15-Sep-2010				Well Damaged	
	22-Jun-2010					
	22-Mar-2010				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 ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
167-05	13-Aug-2014	397947.44	1520446.03	3815.44	15.94	3799.50
	18-Jun-2014				17.19	3798.25
	12-Feb-2014				15.73	3799.71
	6-Nov-2013				15.75	3799.69
	6-Aug-2013				16.03	3799.41
	7-May-2013				15.42	3800.02
	7-Feb-2013				14.96	3800.48
	25-Oct-2012				15.74	3799.70
	31-Jul-2012				15.60	3799.84
	24-Apr-2012				14.99	3800.45
	30-Jan-2012				13.86	3801.58
	13-Dec-2011				14.10	3801.34
	19-Jul-2011				13.69	3801.75
	19-Apr-2011				12.97	3802.47
	17-Jan-2011				11.90	3803.54
	15-Sep-2010				11.52	3803.92
	25-Jun-2010				12.43	3803.01
	22-Mar-2010				12.22	3803.22
	8-Dec-2009				11.96	3803.48
	28-Aug-2009				11.63	3803.81
26-May-2009	11.45	3803.99				
10-Dec-2008	11.54	3803.90				
27-Sep-2008	11.20	3804.24				
10-Jun-2008	12.65	3802.79				
5-Feb-2008	12.36	3803.08				
14-Nov-2007	12.77	3802.67				
11-Sep-2007	12.91	3802.53				
167-06	13-Aug-2014	404479.35	1519603.88	3834.84	32.08	3802.76
	18-Jun-2014				32.63	3802.21
	12-Feb-2014				30.42	3804.42
	6-Nov-2013				30.95	3803.89
	6-Aug-2013				31.73	3803.11
	7-May-2013				30.83	3804.01
	7-Feb-2013				30.00	3804.84
	25-Oct-2012				30.12	3804.72
	31-Jul-2012				30.29	3804.55
	24-Apr-2012				29.84	3805.00
	24-Jan-2012				28.48	3806.36
	8-Dec-2011				29.10	3805.74
	19-Jul-2011				28.75	3806.09
	25-Apr-2011				26.71	3808.13
	17-Jan-2011				26.73	3808.11
	15-Sep-2010				26.70	3808.14
	22-Jun-2010				27.17	3807.67
	22-Mar-2010				27.02	3807.82
	8-Dec-2009				26.40	3808.44
	28-Aug-2009				26.96	3807.88
26-May-2009	27.15	3807.69				
10-Dec-2008	26.18	3808.66				
27-Sep-2008	26.54	3808.30				
10-Jun-2008	27.10	3807.74				
5-Feb-2008	26.46	3808.38				
14-Nov-2007	26.60	3808.24				
11-Sep-2007	26.74	3808.10				

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

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

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
167-09	13-Aug-2014	398473.95	1519259.34	3817.00	16.92	3800.08
	18-Jun-2014				17.69	3799.31
	12-Feb-2014				16.38	3800.62
	6-Nov-2013				15.91	3801.09
	6-Aug-2013				16.22	3800.78
	7-May-2013				16.09	3800.91
	7-Feb-2013				15.36	3801.64
	25-Oct-2012				15.31	3801.69
	31-Jul-2012				15.04	3801.96
	24-Apr-2012				15.12	3801.88
	24-Jan-2012				14.60	3802.40
	8-Dec-2011				14.42	3802.58
	19-Jul-2011				13.17	3803.83
	19-Apr-2011				12.78	3804.22
	17-Jan-2011				12.70	3804.30
	15-Sep-2010				11.95	3805.05
	25-Jun-2010				13.01	3803.99
	22-Mar-2010				12.88	3804.12
	8-Dec-2009				12.82	3804.18
	28-Aug-2009				12.43	3804.57
26-May-2009	12.44	3804.56				
10-Dec-2008	12.78	3804.22				
27-Sep-2008	12.07	3804.93				
10-Jun-2008	12.94	3804.06				
Big Sky Dairy						
833-01	12-Aug-2014	399617.23	1521136.33	3839.55	Dry	
	18-Jun-2014				Dry	
	12-Feb-2014				Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	8-May-2013				Dry	
	7-Feb-2013				Dry	
	25-Oct-2012				Dry	
	1-Aug-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				Dry	
	8-Dec-2011				Dry	
	18-Jul-2011				Dry	
	19-Apr-2011				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 ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-02	12-Aug-2014	401200.32	1520639.92	3836.04	36.02	3800.02
	18-Jun-2014				36.72	3799.32
	12-Feb-2014				34.61	3801.43
	6-Nov-2013				34.80	3801.24
	6-Aug-2013				35.44	3800.60
	8-May-2013				35.13	3800.91
	7-Feb-2013				33.42	3802.62
	25-Oct-2012				34.61	3801.43
	1-Aug-2012				34.90	3801.14
	24-Apr-2012				33.49	3802.55
	24-Jan-2012				34.01	3802.03
	8-Dec-2011				33.08	3802.96
	18-Jul-2011				32.92	3803.12
	19-Apr-2011				31.92	3804.12
	17-Jan-2011				30.43	3805.61
	14-Sep-2010				30.34	3805.70
	22-Jun-2010				31.37	3804.67
	22-Mar-2010				30.87	3805.17
	8-Dec-2009				30.40	3805.64
	28-Aug-2009				30.58	3805.46
	26-May-2009				30.24	3805.80
	10-Dec-2008				30.13	3805.91
	28-Sep-2008				29.80	3806.24
10-Jun-2008	31.21	3804.83				
5-Feb-2008	30.63	3805.41				
14-Nov-2007	30.60	3805.44				
12-Sep-2007	30.63	3805.41				
833-03	12-Aug-2014	401392.09	1521955.23	3867.06	Dry	
	18-Jun-2014				Dry	
	12-Feb-2014				Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	8-May-2013				Dry	
	7-Feb-2013				Dry	
	25-Oct-2012				Dry	
	1-Aug-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				Dry	
	8-Dec-2011				Dry	
	18-Jul-2011				Dry	
	19-Apr-2011				61.92	3805.14
	17-Jan-2011				61.02	3806.04
	14-Sep-2010				60.91	3806.15
	22-Jun-2010				61.90	3805.16
	22-Mar-2010				61.41	3805.65
	8-Dec-2009				61.16	3805.90
	28-Aug-2009				61.50	3805.56
	26-May-2009				61.26	3805.80
	10-Dec-2008				60.76	3806.30
	28-Sep-2008				61.59	3805.47
10-Jun-2008	61.83	3805.23				
5-Feb-2008	61.11	3805.95				
14-Nov-2007	61.08	3805.98				
12-Sep-2007	61.11	3805.95				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-04	12-Aug-2014	402898.52	1520659.33	3845.79	44.62	3801.17
	18-Jun-2014				45.07	3800.72
	12-Feb-2014				43.19	3802.60
	6-Nov-2013				43.59	3802.20
	6-Aug-2013				44.00	3801.79
	8-May-2013				43.63	3802.16
	7-Feb-2013				41.70	3804.09
	25-Oct-2012				41.83	3803.96
	1-Aug-2012				42.70	3803.09
	24-Apr-2012				42.32	3803.47
	24-Jan-2012				40.87	3804.92
	8-Dec-2011				41.55	3804.24
	18-Jul-2011				41.05	3804.74
	19-Apr-2011				39.24	3806.55
	17-Jan-2011				38.80	3806.99
	14-Sep-2010				38.84	3806.95
	22-Jun-2010				39.19	3806.60
	22-Mar-2010				39.13	3806.66
	8-Dec-2009				38.85	3806.94
	28-Aug-2009				39.24	3806.55
26-May-2009	39.31	3806.48				
10-Dec-2008	38.41	3807.38				
28-Sep-2008	38.42	3807.37				
10-Jun-2008	39.46	3806.33				
5-Feb-2008	38.61	3807.18				
14-Nov-2007	38.54	3807.25				
12-Sep-2007	38.96	3806.83				
833-05	12-Aug-2014	399712.39	1522374.73	3865.51	66.71	3798.80
	18-Jun-2014				66.83	3798.68
	12-Feb-2014				65.32	3800.19
	6-Nov-2013				65.29	3800.22
	6-Aug-2013				65.80	3799.71
	8-May-2013				65.19	3800.32
	7-Feb-2013				64.21	3801.30
	25-Oct-2012				64.60	3800.91
	1-Aug-2012				65.01	3800.50
	24-Apr-2012				64.40	3801.11
	24-Jan-2012				63.60	3801.91
	8-Dec-2011				63.63	3801.88
	18-Jul-2011				63.23	3802.28
	19-Apr-2011				62.33	3803.18
	24-Jan-2011				61.90	3803.61
	14-Sep-2010				61.05	3804.46
	22-Jun-2010				61.97	3803.54
	22-Mar-2010				61.52	3803.99
	8-Dec-2009				61.39	3804.12
	28-Aug-2009				61.52	3803.99
26-May-2009	61.14	3804.37				
10-Dec-2008	61.07	3804.44				
28-Sep-2008	60.99	3804.52				
10-Jun-2008	62.28	3803.23				
5-Feb-2008	61.52	3803.99				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-06	12-Aug-2014	402219.48	1522652.04	3878.20	76.20	3802.00
	18-Jun-2014				76.18	3802.02
	12-Feb-2014				75.43	3802.77
	6-Nov-2013				75.12	3803.08
	6-Aug-2013				75.47	3802.73
	8-May-2013				74.67	3803.53
	7-Feb-2013				73.80	3804.40
	25-Oct-2012				73.93	3804.27
	1-Aug-2012				74.06	3804.14
	24-Apr-2012				73.97	3804.23
	24-Jan-2012				73.50	3804.70
	8-Dec-2011				73.41	3804.79
	18-Jul-2011				72.93	3805.27
	25-Apr-2001				72.16	3806.04
	17-Jan-2011				71.43	3806.77
	14-Sep-2010				72.05	3806.15
	22-Jun-2010				72.08	3806.12
	22-Mar-2010				72.00	3806.20
	8-Dec-2009				71.92	3806.28
	28-Aug-2009				72.22	3805.98
26-May-2009	72.02	3806.18				
10-Dec-2008	70.95	3807.25				
28-Sep-2008	70.87	3807.33				
10-Jun-2008	71.78	3806.42				
5-Feb-2008	71.47	3806.73				
833-07	12-Aug-2014	399298.8	1522082.75	3860.70	62.28	3798.42
	18-Jun-2014				62.58	3798.12
	12-Feb-2014				60.88	3799.82
	6-Nov-2013				61.12	3799.58
	6-Aug-2013				61.45	3799.25
	8-May-2013				60.76	3799.94
	7-Feb-2013				59.82	3800.88
	25-Oct-2012				60.22	3800.48
	1-Aug-2012				60.63	3800.07
	24-Apr-2012				60.25	3800.45
	24-Jan-2012				59.71	3800.99
	8-Dec-2011				59.26	3801.44
	18-Jul-2011				58.99	3801.71
	19-Apr-2011				57.95	3802.75
	17-Jan-2011				56.87	3803.83
	14-Sep-2010				56.61	3804.09
	22-Jun-2010				57.55	3803.15
	22-Mar-2010				57.05	3803.65
	8-Dec-2009				56.94	3803.76
	28-Aug-2009				57.02	3803.68
26-May-2009	56.64	3804.06				
10-Dec-2008	56.58	3804.12				
28-Sep-2008	58.53	3802.17				
10-Jun-2008	57.88	3802.82				
5-Feb-2008	57.11	3803.59				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-08	12-Aug-2014	400535.64	1521938.23	3861.76	61.97	3799.79
	18-Jun-2014				62.07	3799.69
	12-Feb-2014				60.68	3801.08
	6-Nov-2013				60.79	3800.97
	6-Aug-2013				61.07	3800.69
	8-May-2013				60.60	3801.16
	7-Feb-2013				59.43	3802.33
	25-Oct-2012				59.75	3802.01
	1-Aug-2012				60.24	3801.52
	24-Apr-2012				59.81	3801.95
	24-Jan-2012				58.86	3802.90
	8-Dec-2011				58.96	3802.80
	18-Jul-2011				58.36	3803.40
	25-Apr-2011				56.54	3805.22
	17-Jan-2011				56.55	3805.21
	14-Sep-2010				56.34	3805.42
	22-Jun-2010				57.32	3804.44
	22-Mar-2010				56.83	3804.93
	8-Dec-2009				56.63	3805.13
	28-Aug-2009				56.83	3804.93
26-May-2009	56.41	3805.35				
10-Dec-2008	56.34	3805.42				
28-Sep-2008	56.07	3805.69				
10-Jun-2008	57.46	3804.30				
5-Feb-2008	56.78	3804.98				
833-09	12-Aug-2014	398280.67	1520918.52	3826.27	27.71	3798.56
	18-Jun-2014				28.71	3797.56
	12-Feb-2014				26.82	3799.45
	6-Nov-2013				27.49	3798.78
	6-Aug-2013				27.76	3798.51
	8-May-2013				27.31	3798.96
	7-Feb-2013				26.26	3800.01
	25-Oct-2012				26.30	3799.97
	1-Aug-2012				27.21	3799.06
	24-Apr-2012				26.44	3799.83
	24-Jan-2012				25.42	3800.85
	8-Dec-2011				25.08	3801.19
	18-Jul-2011				25.41	3800.86
	25-Apr-2011				22.86	3803.41
	17-Jan-2011				22.87	3803.40
	15-Sep-2010				22.56	3803.71
	22-Jun-2010				23.99	3802.28
	22-Mar-2010				23.20	3803.07
	8-Dec-2009				22.87	3803.40
	28-Aug-2009				22.67	3803.60
26-May-2009	22.40	3803.87				
10-Dec-2008	22.65	3803.62				
28-Sep-2008	22.18	3804.09				
10-Jun-2008	23.71	3802.56				
5-Feb-2008	23.23	3803.04				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-10	12-Aug-2014	396715.89	1520283.6	3820.76	21.05	3799.71
	18-Jun-2014				22.37	3798.39
	12-Feb-2014				21.61	3799.15
	6-Nov-2013				21.76	3799.00
	6-Aug-2013				21.95	3798.81
	8-May-2013				22.26	3798.50
	7-Feb-2013				21.12	3799.64
	25-Oct-2012				20.93	3799.83
	1-Aug-2012				21.01	3799.75
	24-Apr-2012				21.11	3799.65
	24-Jan-2012				20.14	3800.62
	8-Dec-2011				19.95	3800.81
	18-Jul-2011				19.23	3801.53
	19-Apr-2011				18.67	3802.09
	17-Jan-2011				17.80	3802.96
	15-Sep-2010				17.29	3803.47
	22-Jun-2010				18.80	3801.96
	22-Mar-2010				18.38	3802.38
	8-Dec-2009				17.72	3803.04
	28-Aug-2009				17.22	3803.54
26-May-2009	17.40	3803.36				
10-Dec-2008	17.71	3803.05				
28-Sep-2008	16.98	3803.78				
10-Jun-2008	18.17	3802.59				
5-Feb-2008	18.11	3802.65				
Sunset/Desert Land Dairy						
257-01	12-Aug-2014	395856.31	1520572.16	3820.33	22.50	3797.83
	18-Jun-2014				22.67	3797.66
	12-Feb-2014				21.67	3798.66
	6-Nov-2013				22.29	3798.04
	6-Aug-2013				22.52	3797.81
	7-May-2013				21.15	3799.18
	7-Feb-2013				20.38	3799.95
	26-Oct-2012				21.04	3799.29
	1-Aug-2012				20.82	3799.51
	24-Apr-2012				21.01	3799.32
	24-Jan-2012				20.09	3800.24
	8-Dec-2011				20.18	3800.15
	18-Jul-2011				19.75	3800.58
	19-Apr-2011				18.52	3801.81
	18-Jan-2011				17.83	3802.50
	15-Sep-2010				17.15	3803.18
	22-Jun-2010				18.15	3802.18
	22-Mar-2010				18.40	3801.93
	8-Dec-2009				17.66	3802.67
	28-Aug-2009				16.99	3803.34
26-May-2009	17.41	3802.92				
10-Dec-2008	17.87	3802.46				
27-Sep-2008	16.75	3803.58				
10-Jun-2008	17.88	3802.45				
5-Feb-2008	17.59	3802.74				
14-Nov-2007	18.53	3801.80				
12-Sep-2007	18.10	3802.23				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
257-02	13-Aug-2014	394728.34	1521030.29	3813.67	16.50	3797.17
	18-Jun-2014				17.87	3795.80
	12-Feb-2014				15.78	3797.89
	6-Nov-2013				16.06	3797.61
	6-Aug-2013				15.95	3797.72
	7-May-2013				15.04	3798.63
	7-Feb-2013				14.79	3798.88
	26-Oct-2012				15.06	3798.61
	1-Aug-2012				14.91	3798.76
	24-Apr-2012				15.27	3798.40
	24-Jan-2012				13.90	3799.77
	8-Dec-2011				14.38	3799.29
	19-Jul-2011				13.50	3800.17
	19-Apr-2011				12.59	3801.08
	18-Jan-2011				11.84	3801.83
	15-Sep-2010				10.86	3802.81
	22-Jun-2010				11.08	3802.59
	22-Mar-2010				12.22	3801.45
	8-Dec-2009				11.52	3802.15
	28-Aug-2009				10.86	3802.81
	26-May-2009				11.38	3802.29
	10-Dec-2008				11.67	3802.00
	27-Sep-2008				9.75	3803.92
10-Jun-2008	11.82	3801.85				
5-Feb-2008	11.67	3802.00				
14-Nov-2007	12.22	3801.45				
12-Sep-2007	11.55	3802.12				
257-03	13-Aug-2014	397935.69	1518746.14	3814.74	12.34	3802.40
	18-Jun-2014				12.21	3802.53
	12-Feb-2014				13.49	3801.25
	6-Nov-2013				11.04	3803.70
	6-Aug-2013				11.29	3803.45
	7-May-2013				12.98	3801.76
	7-Feb-2013				12.31	3802.43
	26-Oct-2012				11.61	3803.13
	1-Aug-2012				10.06	3804.68
	24-Apr-2012				11.56	3803.18
	24-Jan-2012				10.89	3803.85
	1-Nov-2011				11.29	3803.45
	18-Jul-2011				8.77	3805.97
	19-Apr-2011				9.31	3805.43
	17-Jan-2011				10.04	3804.70
	21-Sep-2010				9.26	3805.48
	22-Jun-2010				9.11	3805.63
	22-Mar-2010				10.45	3804.29
	8-Dec-2009				9.78	3804.96
	28-Aug-2009				9.43	3805.31
	26-May-2009				9.55	3805.19
	10-Dec-2008				10.26	3804.48
	27-Sep-2008				9.73	3805.01
10-Jun-2008	9.70	3805.04				
5-Feb-2008	11.04	3803.70				
14-Nov-2007	9.03	3805.71				
12-Sep-2007	9.61	3805.13				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
257/260-01	13-Aug-2014	397678.36	1519948.22	3814.04	13.28	3800.76
	18-Jun-2014				14.53	3799.51
	12-Feb-2014				14.06	3799.98
	6-Nov-2013				14.01	3800.03
	14-Aug-2013				14.20	3799.84
	7-May-2013				13.83	3800.21
	7-Feb-2013				13.11	3800.93
	26-Oct-2012				13.36	3800.68
	1-Aug-2012				13.05	3800.99
	24-Apr-2012				12.98	3801.06
	30-Jan-2012				12.26	3801.78
	1-Nov-2011				12.79	3801.25
	18-Jul-2011				10.65	3803.39
	26-Apr-2011				11.66	3802.38
	17-Jan-2011				10.44	3803.60
	15-Sep-2010				9.94	3804.10
	22-Jun-2010				10.90	3803.14
	22-Mar-2010				10.71	3803.33
	8-Dec-2009				10.42	3803.62
	28-Aug-2009				10.11	3803.93
26-May-2009	10.00	3804.04				
10-Dec-2008	10.48	3803.56				
27-Sep-2008	9.80	3804.24				
10-Jun-2008	11.00	3803.04				
5-Feb-2008	10.99	3803.05				
14-Nov-2007	11.21	3802.83				
12-Sep-2007	NM	NM				
Additional Wells						
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 ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
SOUTHERN AREA						
Del Oro Dairy						
692-01	12-Aug-2014	373615.88	1531529.38	3844.13	61.27	3782.86
	13-May-2014				60.79	3783.34
	14-Feb-2014				60.38	3783.75
	6-Nov-2013				60.72	3783.41
	6-Aug-2013				60.30	3783.83
	7-May-2013				60.58	3783.55
	7-Feb-2013				59.93	3784.20
	26-Oct-2012				60.10	3784.03
	1-Aug-2012				58.79	3785.34
	24-Apr-2012				58.43	3785.70
	25-Jan-2012				78.58	Pumping
	9-Dec-2011				58.19	3785.94
	18-Jul-2011				57.79	3786.34
	19-Apr-2011				57.39	3786.74
	18-Jan-2011				57.17	3786.96
	15-Sep-2010				57.57	3786.56
	30-Jun-2010				61.15	Pumping
	22-Mar-2010				58.01	3786.12
	9-Dec-2009				58.25	3785.88
	29-Aug-2009				58.19	3785.94
	26-May-2009				57.80	3786.33
	11-Dec-2008				Pumping	NM
	28-Sep-2008				Pumping	NM
	11-Jun-2008				57.75	3786.38
6-Feb-2008	57.42	3786.71				
14-Nov-2007	57.38	3786.75				
13-Sep-2007	57.46	3786.67				
692-02	12-Aug-2014	372984.72	1531192.1	3840.84	59.01	3781.83
	13-May-2014				58.51	3782.33
	14-Feb-2014				58.12	3782.72
	6-Nov-2013				57.91	3782.93
	6-Aug-2013				57.60	3783.24
	7-May-2013				57.39	3783.45
	7-Feb-2013				56.86	3783.98
	25-Oct-2012				56.48	3784.36
	1-Aug-2012				56.03	3784.81
	24-Apr-2012				55.71	3785.13
	25-Jan-2012				54.70	3786.14
	13-Dec-2011				54.94	3785.90
	18-Jul-2011				55.10	3785.74
	19-Apr-2011				54.68	3786.16
	18-Jan-2011				54.32	3786.52
	15-Sep-2010				54.39	3786.45
	30-Jun-2010				54.50	3786.34
	22-Mar-2010				54.90	3785.94
	9-Dec-2009				55.11	3785.73
	28-Aug-2009				55.03	3785.81
	26-May-2009				55.38	3785.46
	11-Dec-2008				54.93	3785.91
	28-Sep-2008				54.69	3786.15
	11-Jun-2008				54.93	3785.91
6-Feb-2008	54.74	3786.10				
14-Nov-2007	54.42	3786.42				
13-Sep-2007	54.61	3786.23				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
692-04	12-Aug-2014	372982.53	1531555.21	3842.66	60.13	3782.53
	13-May-2014				59.66	3783.00
	14-Feb-2014				59.18	3783.48
	6-Nov-2013				59.03	3783.63
	6-Aug-2013				58.79	3783.87
	7-May-2013				58.68	3783.98
	7-Feb-2013				58.05	3784.61
	25-Oct-2012				57.62	3785.04
	1-Aug-2012				57.34	3785.32
	24-Apr-2012				57.13	3785.53
	25-Jan-2012				56.34	3786.32
	9-Dec-2011				56.91	3785.75
	18-Jul-2011				56.92	3785.74
	19-Apr-2011				56.47	3786.19
	18-Jan-2011				56.15	3786.51
	15-Sep-2010				55.90	3786.76
	30-Jun-2010				56.81	3785.85
	22-Mar-2010				56.81	3785.85
	8-Dec-2009				56.86	3785.80
	28-Aug-2009				56.82	3785.84
26-May-2009	57.09	3785.57				
11-Dec-2008	56.71	3785.95				
28-Sep-2008	56.41	3786.25				
11-Jun-2008	56.54	3786.12				
6-Feb-2008	56.40	3786.26				
14-Nov-2007	55.95	3786.71				
13-Sep-2007	56.19	3786.47				
692-05	12-Aug-2014	374807.26	1532403	3854.26	81.02	3773.24
	13-May-2014				80.82	3773.44
	13-Feb-2014				79.21	3775.05
	6-Nov-2013				NM	NM
	14-Aug-2013				78.12	3776.14
	7-May-2013				79.43	3774.83
	7-Feb-2013				78.86	3775.40
	26-Oct-2012				79.11	3775.15
	1-Aug-2012				78.80	3775.46
	24-Apr-2012				77.96	3776.30
	24-Jan-2012				76.80	3777.46
	9-Dec-2011				77.39	3776.87
	18-Jul-2011				77.59	3776.67
	19-Apr-2011				76.46	3777.80
	18-Jan-2011				75.55	3778.71
	15-Sep-2010				76.14	3778.12
	30-Jun-2010				76.20	3778.06
	22-Mar-2010				75.01	3779.25
	9-Dec-2009				75.52	3778.74
	28-Aug-2009				76.15	3778.11
26-May-2009	75.65	3778.61				
11-Dec-2008	74.95	3779.31				
28-Sep-2008	75.36	3778.90				
11-Jun-2008	75.72	3778.54				
6-Feb-2008	74.84	3779.42				
14-Nov-2007	75.90	3778.36				
13-Sep-2007	75.84	3778.42				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
692-06	12-Aug-2014	375054.77	1532411.83	3856.48	82.88	3773.60
	13-May-2014				81.84	3774.64
	14-Feb-2014				81.31	3775.17
	6-Nov-2013				82.18	3774.30
	6-Aug-2013				81.86	3774.62
	7-May-2013				81.22	3775.26
	7-Feb-2013				80.88	3775.60
	26-Oct-2012				81.03	3775.45
	1-Aug-2012				80.69	3775.79
	24-Apr-2012				79.84	3776.64
	30-Jan-2012				78.99	3777.49
	9-Dec-2011				79.32	3777.16
	18-Jul-2011				79.43	3777.05
	19-Apr-2011				78.32	3778.16
	18-Jan-2011				77.44	3779.04
	15-Sep-2010				78.02	3778.46
	30-Jun-2010				78.12	3778.36
	22-Mar-2010				76.91	3779.57
	9-Dec-2009				77.44	3779.04
	28-Aug-2009				78.04	3778.44
	26-May-2009				77.53	3778.95
	11-Dec-2008				76.79	3779.69
	28-Sep-2008				77.25	3779.23
11-Jun-2008	77.60	3778.88				
6-Feb-2008	76.76	3779.72				
14-Nov-2007	77.80	3778.68				
13-Sep-2007	77.75	3778.73				
692-07	12-Aug-2014	374944.88	1532019.81	3848.20	74.94	3773.26
	13-May-2014				73.69	3774.51
	14-Feb-2014				73.14	3775.06
	6-Nov-2013				74.26	3773.94
	6-Aug-2013				73.92	3774.28
	7-May-2013				73.21	3774.99
	7-Feb-2013				72.55	3775.65
	26-Oct-2012				72.78	3775.42
	1-Aug-2012				72.60	3775.60
	24-Apr-2012				71.84	3776.36
	24-Jan-2012				70.30	3777.90
	13-Dec-2011				70.54	3777.66
	18-Jul-2011				71.32	3776.88
	19-Apr-2011				70.22	3777.98
	18-Jan-2011				69.01	3779.19
	15-Sep-2010				69.72	3778.48
	30-Jun-2010				69.87	3778.33
	22-Mar-2010				68.59	3779.61
	9-Dec-2009				68.97	3779.23
	28-Aug-2009				69.71	3778.49
	26-May-2009				69.35	3778.85
	11-Dec-2008				68.38	3779.82
	28-Sep-2008				68.99	3779.21
11-Jun-2008	69.35	3778.85				
6-Feb-2008	68.44	3779.76				
14-Nov-2007	69.46	3778.74				
13-Sep-2007	69.46	3778.74				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
692-08	12-Aug-2014	375535.69	1531378.09	3843.09	68.72	3774.37
	13-May-2014				68.35	3774.74
	14-Feb-2014				67.81	3775.28
	6-Nov-2013				68.06	3775.03
	6-Aug-2013				68.52	3774.57
	14-May-2013				67.09	3776.00
	7-Feb-2013				66.64	3776.45
	26-Oct-2012				67.17	3775.92
	1-Aug-2012				66.47	3776.62
	24-Apr-2012				65.84	3777.25
	30-Jan-2012				64.58	3778.51
	9-Dec-2011				64.65	3778.44
	18-Jul-2011				65.79	3777.30
	19-Apr-2011				64.32	3778.77
	18-Jan-2011				62.49	3780.60
	1-Oct-2010				63.83	3779.26
	30-Jun-2010				63.71	3779.38
	22-Mar-2010				62.45	3780.64
	9-Dec-2009				62.57	3780.52
	28-Aug-2009				63.42	3779.67
	26-May-2009				64.03	3779.06
	11-Dec-2008				61.83	3781.26
	28-Sep-2008				63.42	3779.67
11-Jun-2008	63.40	3779.69				
6-Feb-2008	62.02	3781.07				
14-Nov-2007	63.25	3779.84				
13-Sep-2007	64.02	3779.07				
692-09	14-Aug-2014	373575.83	1532395.09	3856.32	84.03	3772.29
	13-May-2014				83.59	3772.73
	17-Feb-2014				82.51	3773.81
	6-Nov-2013				83.73	3772.59
	6-Aug-2013				83.40	3772.92
	7-May-2013				82.64	3773.68
	7-Feb-2013				82.02	3774.30
	26-Oct-2012				82.18	3774.14
	1-Aug-2012				82.11	3774.21
	24-Apr-2012				81.17	3775.15
	25-Jan-2012				79.80	3776.52
	8-Dec-2011				80.44	3775.88
	18-Jul-2011				80.78	3775.54
	19-Apr-2011				79.65	3776.67
	17-Jan-2011				78.52	3777.80
	15-Sep-2010				79.33	3776.99
	30-Jun-2010				79.52	3776.80
	22-Mar-2010				78.13	3778.19
	9-Dec-2009				78.79	3777.53
	28-Aug-2009				79.48	3776.84
	26-May-2009				78.89	3777.43
	11-Dec-2008				78.11	3778.21
	28-Sep-2008				78.55	3777.77
11-Jun-2008	79.03	3777.29				
6-Feb-2008	78.16	3778.16				
14-Nov-2007	79.15	3777.17				
13-Sep-2007	79.93	3776.39				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Anthony Waste Water Treatment Plant						
MW-1	12-Aug-2014	372097.86	1532364.36	3843.03	60.73	3782.30
	13-May-2014				60.65	3782.38
	14-Feb-2014				60.49	3782.54
	7-Nov-2013				60.28	3782.75
	7-Aug-2013				60.13	3782.90
	8-May-2013				59.72	3783.31
	7-Feb-2013				59.23	3783.80
	26-Oct-2012				58.85	3784.18
	2-Aug-2012				58.79	3784.24
	25-Apr-2012				58.28	3784.75
	9-Dec-2011				58.01	3785.02
	18-Jul-2011				58.44	3784.59
	20-Apr-2011				58.35	3784.68
	18-Jan-2011				58.20	3784.83
	15-Sep-2010				58.28	3784.75
	24-Jun-2010				58.50	3784.53
	22-Mar-2010				58.43	3784.60
9-Dec-2009	58.15	3784.88				
28-Aug-2009	58.07	3784.96				
27-May-2009	58.41	3784.62				
MW-2	12-Aug-2014	NM	NM	3843.25	62.09	3781.16
	13-May-2014				62.06	3781.19
	14-Feb-2014				62.04	3781.21
	7-Nov-2013				61.81	3781.44
	7-Aug-2013				62.07	3781.18
	8-May-2013				61.21	3782.04
	7-Feb-2013				60.85	3782.40
	26-Oct-2012				60.42	3782.83
	2-Aug-2012				60.30	3782.95
	25-Apr-2012				59.94	3783.31
	30-Jan-2012				59.30	3783.95
	9-Dec-2011				59.33	3783.92
	18-Jul-2011				59.41	3783.84
	20-Apr-2011				59.42	3783.83
	18-Jan-2011				59.31	3783.94
	15-Sep-2010				59.08	3784.17
	24-Jun-2010				59.37	3783.88
22-Mar-2010	59.44	3783.81				
9-Dec-2009	59.19	3784.06				
28-Aug-2009	58.98	3784.27				
27-May-2009	59.45	3783.80				
MW-3	12-Aug-2014	NM	NM	3841.24	Dry	
	13-May-2014				Dry	
	14-Feb-2014				Dry	
	7-Nov-2013				Dry	
	7-Aug-2013				59.29	3781.95
	8-May-2013				58.80	3782.44
	7-Feb-2013				58.36	3782.88
	26-Oct-2012				57.98	3783.26
	2-Aug-2012				57.81	3783.43
	25-Apr-2012				57.32	3783.92
	30-Jan-2012				56.80	3784.44
	8-Dec-2011				56.87	3784.37
	18-Jul-2011				56.98	3784.26
	19-Apr-2011				56.93	3784.31
	18-Jan-2011				56.73	3784.51
	15-Sep-2010				Could not access	
	24-Jun-2010				56.91	3784.33
22-Mar-2010	56.93	3784.31				
9-Dec-2009	56.69	3784.55				
28-Aug-2009	56.54	3784.70				
27-May-2009	56.96	3784.28				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
ABATEMENT PLAN MONITOR WELLS						
DAD-01	12-Aug-2014	422970.59	1512825.76	3886.16	71.93	3814.23
	13-May-2014				71.48	3814.68
	12-Feb-2014				70.14	3816.02
	6-Nov-2013				70.64	3815.52
	7-Aug-2013				68.63	3817.53
	7-May-2013				68.48	3817.68
	8-Feb-2013				68.59	3817.57
	29-Oct-2012				68.12	3818.04
	30-Jul-2012				68.97	3817.19
	23-Apr-2012				68.19	3817.97
	25-Jan-2012				67.15	3819.01
	8-Dec-2011				67.41	3818.75
	19-Jul-2011				67.41	3818.75
	25-Apr-2011				65.86	3820.30
	18-Jan-2011				65.37	3820.79
	16-Sep-2010				65.86	3820.30
	24-Jun-2010				66.58	3819.58
	21-Mar-2010				65.46	3820.70
	9-Dec-2009				65.32	3820.84
	29-Aug-2009				65.68	3820.48
26-May-2009	65.43	3820.73				
DAD-02	12-Aug-2014	413002.98	1517319.93	3875.82	66.55	3809.27
	13-May-2014				66.01	3809.81
	12-Feb-2014				65.42	3810.40
	7-Nov-2013				65.55	3810.27
	7-Aug-2013				65.01	3810.81
	8-May-2013				64.56	3811.26
	8-Feb-2013				64.04	3811.78
	29-Oct-2012				64.11	3811.71
	31-Jul-2012				64.03	3811.79
	24-Apr-2012				63.45	3812.37
	25-Jan-2012				62.91	3812.91
	8-Dec-2011				63.07	3812.75
	19-Jul-2011				62.63	3813.19
	18-Apr-2011				62.11	3813.71
	17-Jan-2011				61.37	3814.45
	16-Sep-2010				61.79	3814.03
	25-Jun-2010				62.95	3812.87
	21-Mar-2010				61.43	3814.39
	9-Dec-2009				61.46	3814.36
	29-Aug-2009				61.65	3814.17
26-May-2009	61.59	3814.23				
DAD-03	12-Aug-2014	407721.31	1516497.85	3820.58	13.20	3807.38
	13-May-2014				13.39	3807.19
	17-Feb-2014				12.66	3807.92
	11-Dec-2013				12.67	3807.91
	14-Aug-2013				12.36	3808.22
	8-May-2013				11.87	3808.71
	8-Feb-2013				11.07	3809.51
	29-Oct-2012				10.93	3809.65
	31-Jul-2012				10.90	3809.68
	24-Apr-2012				10.97	3809.61
	25-Jan-2012				10.60	3809.98
	8-Dec-2011				10.70	3809.88
	19-Jul-2011				10.29	3810.29
	18-Apr-2011				10.12	3810.46
	24-Jan-2011				9.36	3811.22
	16-Sep-2010				9.40	3811.18
	24-Jun-2010				9.97	3810.61
	21-Mar-2010				9.90	3810.68
	9-Dec-2009				9.79	3810.79
	29-Aug-2009				9.72	3810.86
26-May-2009	9.89	3810.69				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-04	13-Aug-2014	404576.66	1517413.28	3821.47	15.81	3805.66
	13-May-2014				17.36	3804.11
	13-Feb-2014				15.45	3806.02
	7-Nov-2013				16.91	3804.56
	7-Aug-2013				17.11	3804.36
	8-May-2013				15.02	3806.45
	8-Feb-2013				14.48	3806.99
	29-Oct-2012				15.10	3806.37
	31-Jul-2012				14.37	3807.10
	24-Apr-2012				14.27	3807.20
	25-Jan-2012				13.40	3808.07
	8-Dec-2011				13.84	3807.63
	19-Jul-2011				13.63	3807.84
	18-Apr-2011				13.21	3808.26
	17-Jan-2011				12.71	3808.76
	16-Sep-2010				12.14	3809.33
	23-Jun-2010				12.59	3808.88
	21-Mar-2010				12.88	3808.59
	9-Dec-2009				12.10	3809.37
	29-Aug-2009				12.13	3809.34
26-May-2009	12.31	3809.16				
DAD-05	13-Aug-2014	396712.87	1519102.06	3816.01	14.33	3801.68
	13-May-2014				17.24	3798.77
	13-Feb-2014				15.82	3800.19
	7-Nov-2013				15.39	3800.62
	7-Aug-2013				15.32	3800.69
	8-May-2013				15.78	3800.23
	8-Feb-2013				15.08	3800.93
	29-Oct-2012				14.85	3801.16
	2-Aug-2012				14.17	3801.84
	24-Apr-2012				14.14	3801.87
	25-Jan-2012				14.11	3801.90
	8-Dec-2011				14.05	3801.96
	18-Jul-2011				12.31	3803.70
	18-Apr-2011				12.58	3803.43
	17-Jan-2011				12.50	3803.51
	16-Sep-2010				11.87	3804.14
	23-Jun-2010				12.95	3803.06
	21-Mar-2010				12.92	3803.09
	9-Dec-2009				12.13	3803.88
	29-Aug-2009				11.85	3804.16
26-May-2009	12.07	3803.94				
DAD-06	12-Aug-2014	404273.19	1522081.00	3887.71	Dry	
	13-May-2014				Dry	
	13-Feb-2014				Dry	
	7-Nov-2013				Dry	
	7-Aug-2013				Dry	
	8-May-2013				82.79	3804.92
	8-Feb-2013				82.38	3805.33
	29-Oct-2012				82.47	3805.24
	1-Aug-2012				82.20	3805.51
	24-Apr-2012				82.13	3805.58
	25-Jan-2012				81.32	3806.39
	8-Dec-2011				81.55	3806.16
	18-Jul-2011				80.94	3806.77
	20-Apr-2011				80.16	3807.55
	17-Jan-2011				79.43	3808.28
	16-Sep-2010				79.68	3808.03
	25-Jun-2010				80.33	3807.38
	21-Mar-2010				79.85	3807.86
	9-Dec-2009				79.95	3807.76
	29-Aug-2009				80.46	3807.25
26-May-2009	80.32	3807.39				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-07	12-Aug-2014	399270.18	1524320.88	3891.38	92.12	3799.26
	13-May-2014				91.88	3799.50
	13-Feb-2014				91.37	3800.01
	7-Nov-2013				91.60	3799.78
	7-Aug-2013				91.19	3800.19
	8-May-2013				90.89	3800.49
	8-Feb-2013				90.13	3801.25
	29-Oct-2012				90.34	3801.04
	2-Aug-2012				90.38	3801.00
	24-Apr-2012				90.25	3801.13
	25-Jan-2012				89.75	3801.63
	8-Dec-2011				89.35	3802.03
	18-Jul-2011				88.98	3802.40
	20-Apr-2011				88.34	3803.04
	17-Jan-2011				87.94	3803.44
	16-Sep-2010				88.29	3803.09
	25-Jun-2010				88.49	3802.89
	21-Mar-2010				88.00	3803.38
DAD-08	13-Aug-2014	395287.38	1522575.07	3849.15	53.09	3796.06
	13-May-2014				53.98	3795.17
	13-Feb-2014				51.31	3797.84
	7-Nov-2013				51.50	3797.65
	7-Aug-2013				53.18	3795.97
	8-May-2013				52.43	3796.72
	8-Feb-2013				50.37	3798.78
	29-Oct-2012				49.86	3799.29
	1-Aug-2012				50.34	3798.81
	24-Apr-2012				50.34	3798.81
	25-Jan-2012				49.62	3799.53
	13-Dec-2011				50.12	3799.03
	18-Jul-2011				49.97	3799.18
	20-Apr-2011				48.87	3800.28
	18-Jan-2011				47.80	3801.35
	17-Sep-2010				47.05	3802.10
	25-Jun-2010				48.06	3801.09
	21-Mar-2010				47.76	3801.39
DAD-09	12-Aug-2014	373259.30	1530905.70	3838.03	56.57	3781.46
	13-May-2014				56.14	3781.89
	13-Feb-2014				55.65	3782.38
	7-Nov-2013				55.17	3782.86
	7-Aug-2013				55.35	3782.68
	7-May-2013				54.94	3783.09
	8-Feb-2013				54.67	3783.36
	29-Oct-2012				54.13	3783.90
	2-Aug-2012				53.86	3784.17
	24-Apr-2012				53.40	3784.63
	25-Jan-2012				52.67	3785.36
	13-Dec-2011				52.62	3785.41
	18-Jul-2011				52.28	3785.75
	18-Apr-2011				51.89	3786.14
	17-Jan-2011				51.09	3786.94
	17-Sep-2010				51.55	3786.48
	29-Jun-2010				52.20	3785.83
	21-Mar-2010				51.84	3786.19
9-Dec-2009	52.12	3785.91				
29-Aug-2009	52.23	3785.80				
26-May-2009	52.49	3785.54				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-10	12-Aug-2014	372980.55	1532375.33	3854.93	83.25	3771.68
	13-May-2014				83.61	3771.32
	17-Feb-2014				81.59	3773.34
	7-Nov-2013				82.75	3772.18
	7-Aug-2013				82.78	3772.15
	7-May-2013				81.77	3773.16
	8-Feb-2013				80.87	3774.06
	29-Oct-2012				81.02	3773.91
	2-Aug-2012				81.47	3773.46
	24-Apr-2012				80.36	3774.57
	25-Jan-2012				78.76	3776.17
	13-Dec-2011				79.07	3775.86
	18-Jul-2011				80.29	3774.64
	20-Apr-2011				79.13	3775.80
	17-Jan-2011				77.82	3777.11
	17-Sep-2010				78.66	3776.27
	29-Jun-2010				78.59	3776.34
	21-Mar-2010				77.19	3777.74
	9-Dec-2009				77.92	3777.01
	29-Aug-2009				78.72	3776.21
26-May-2009	77.90	3777.03				
DAD-11 (177-03)	13-Aug-2014	416211.35	1513814.71	3835.90	20.77	3815.13
	12-May-2014				21.34	3814.56
	12-Feb-2014				21.64	3814.26
	7-Nov-2013				20.76	3815.14
	7-Aug-2013				20.17	3815.73
	8-May-2013				20.70	3815.20
	8-Feb-2013				19.25	3816.65
	29-Oct-2012				19.07	3816.83
	30-Jul-2012				18.57	3817.33
	24-Apr-2012				19.12	3816.78
	25-Jan-2012				18.40	3817.50
	13-Dec-2011				18.75	3817.15
	19-Jul-2011				17.54	3818.36
	19-Apr-2011				17.31	3818.59
	17-Jan-2011				16.99	3818.91
	15-Sep-2010				16.24	3819.66
	23-Jun-2010				16.53	3819.37
	22-Mar-2010				17.29	3818.61
	8-Dec-2009				16.82	3819.08
	28-Aug-2009				16.63	3819.27
26-May-2009	16.92	3818.98				
10-Dec-2008	17.05	3818.85				
27-Sep-2008	16.65	3819.25				
10-Jun-2008	17.53	3818.37				
6-Feb-2008	17.33	3818.57				
13-Nov-2007	17.19	3818.71				
13-Sep-2007	16.61	3819.29				
DAD-12	13-Aug-2014	419731.54	1512274.77	3866.72	51.10	3815.62
	12-May-2014				51.43	3815.29
	12-Feb-2014				50.92	3815.80
	7-Nov-2013				50.49	3816.23
	7-Aug-2013				49.24	3817.48
	7-May-2013				49.66	3817.06
	8-Feb-2013				49.36	3817.36
	29-Oct-2012				48.96	3817.76
	31-Jul-2012				48.59	3818.13
	23-Apr-2011				48.44	3818.28
	25-Jan-2012				48.01	3818.71
	6-Dec-2011				48.15	3818.57

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-13	13-Aug-2014	417879.08	1515673.13	3898.44	86.67	3811.77
	13-May-2014				87.24	3811.20
	12-Feb-2014				84.45	3813.99
	7-Nov-2013				85.43	3813.01
	14-Aug-2013				86.46	3811.98
	8-May-2013				84.96	3813.48
	8-Feb-2013				84.81	3813.63
	29-Oct-2012				85.39	3813.05
	30-Jul-2012				85.51	3812.93
	23-Apr-2012				83.56	3814.88
	25-Jan-2012				82.72	3815.72
8-Dec-2011	82.88	3815.56				
DAD-14	13-Aug-2014	414923.33	1514695.26	3841.90	28.63	3813.27
	13-May-2014				29.68	3812.22
	12-Feb-2014				29.02	3812.88
	7-Nov-2013				28.44	3813.46
	7-Aug-2013				28.25	3813.65
	8-May-2013				28.15	3813.75
	8-Feb-2013				27.31	3814.59
	25-Oct-2012				26.62	3815.28
	30-Jul-2012				25.85	3816.05
	24-Apr-2012				26.07	3815.83
	25-Jan-2012				26.10	3815.80
8-Dec-2011	26.30	3815.60				
DAD-15	14-Aug-2014	402001.22	1523552.04	3897.61	95.50	3802.11
	13-May-2014				95.47	3802.14
	12-Feb-2014				94.81	3802.80
	7-Nov-2013				95.08	3802.53
	7-Aug-2013				95.31	3802.30
	8-May-2013				94.35	3803.26
	8-Feb-2013				94.01	3803.60
	29-Oct-2012				93.78	3803.83
DAD-16	13-Aug-2014	400628.77	1519350.74	3819.28	19.45	3799.83
	13-May-2014				20.31	3798.97
	13-Feb-2014				18.45	3800.83
	7-Nov-2013				18.94	3800.34
	7-Aug-2013				19.06	3800.22
	8-May-2013				18.49	3800.79
	8-Feb-2013				17.20	3802.08
	29-Oct-2012				17.23	3802.05
	31-Jul-2012				18.58	3800.70
	24-Apr-2012				17.64	3801.64
	25-Jan-2012				16.50	3802.78
8-Dec-2011	16.58	3802.70				
DAD-17	13-Aug-2014	393991.97	1520267.94	3817.75	20.32	3797.43
	13-May-2014				23.32	3794.43
	12-Feb-2014				20.05	3797.70
	7-Nov-2013				20.21	3797.54
	7-Aug-2013				19.75	3798.00
	13-May-2013				19.37	3798.38
	8-Feb-2013				18.55	3799.20
	29-Oct-2012				19.18	3798.57
	2-Aug-2012				19.07	3798.68
	24-Apr-2012				21.01	3796.74
	25-Jan-2012				17.74	3800.01
	9-Dec-2011				19.21	3798.54

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-18	12-Aug-2014	395714.14	1520588.96	3821.59	22.93	3798.66
	13-May-2014				25.33	3796.26
	17-Feb-2014				23.03	3798.56
	7-Nov-2013				23.25	3798.34
	7-Aug-2013				24.23	3797.36
	13-May-2013				22.97	3798.62
	8-Feb-2013				22.04	3799.55
	29-Oct-2012				22.40	3799.19
	1-Aug-2012				22.43	3799.16
	24-Apr-2012				22.20	3799.39
	25-Jan-2012				21.33	3800.26
	6-Dec-2011				21.43	3800.16
DAD-19	12-Aug-2014	400164.47	1522027.92	3864.50	65.29	3799.21
	13-May-2014				65.26	3799.24
	12-Feb-2014				63.99	3800.51
	7-Nov-2013				64.11	3800.39
	7-Aug-2013				64.46	3800.04
	14-May-2013				63.75	3800.75
	8-Feb-2013				62.95	3801.55
	29-Oct-2012				62.30	3802.20
	1-Aug-2012				63.70	3800.80
	24-Apr-2012				63.31	3801.19
	25-Jan-2012				62.25	3802.25
	6-Dec-2011				62.29	3802.21
DAD-20	12-Aug-2014	371751.45	1531188.19	3833.27	54.26	3779.01
	13-May-2014				54.20	3779.07
	13-Feb-2014				53.54	3779.73
	7-Nov-2013				53.70	3779.57
	7-Aug-2013				53.43	3779.84
	8-May-2013				52.88	3780.39
	8-Feb-2013				52.29	3780.98
	7-Nov-2012				52.18	3781.09
	29-Oct-2012				Obstruction in Well	
	2-Aug-2012				Obstruction in Well	
	25-Apr-2012				Obstruction in Well	
	25-Jan-2012				50.65	3782.62
	6-Dec-2011				50.66	3782.61
	DAD-21				12-Aug-2014	374013.39
13-May-2014		56.42	3783.20			
17-Feb-2014		55.97	3783.65			
7-Nov-2013		55.89	3783.73			
7-Aug-2013		55.81	3783.81			
7-May-2013		55.43	3784.19			
8-Feb-2013		55.10	3784.52			
29-Oct-2012		54.60	3785.02			
2-Aug-2012		54.31	3785.31			
24-Apr-2012		53.61	3786.01			
30-Jan-2012		53.44	3786.18			
6-Dec-2011		53.24	3786.38			

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-22	12-Aug-2014	373029.62	1530352.69	3827.14	46.98	3780.16
	13-May-2014				46.56	3780.58
	17-Feb-2014				46.18	3780.96
	7-Nov-2013				45.73	3781.41
	7-Aug-2013				45.77	3781.37
	14-May-2013				44.09	3783.05
	8-Feb-2013				44.08	3783.06
	29-Oct-2012				44.51	3782.63
	2-Aug-2012				44.23	3782.91
	25-Apr-2012				43.86	3783.28
	25-Jan-2012				43.22	3783.92
	13-Dec-2011				43.27	3783.87

Notes:

^a Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)

^b Vertical Control to NAVD88 Datum in feet above mean sea level

^c Measured in feet below the top of casing at survey point on north side of well

^d 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
Groundwater Samples				
Nitrate/Nitrite	EPA 300.0/ SM 4500 NO3 E	250 mL HDPE Bottle	H ₂ SO ₄ to pH2, Cool to <6°C	28 Days
Total Kjeldhal Nitrogen	SM 4500 NORG C	250 mL HDPE Bottle	H ₂ SO ₄ 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 ₂ SO ₄ = 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)	
Abatement Plan Monitoring Wells							
DAD-01	29-Aug-14	8.28	<1.80	425	1,830	NA	
	3-Jun-14	6.13	<1.80	491	2,020	NA	
	10-Mar-14	5.76	<1.66	496	1,780	NA	
	11-Dec-13	7.61	3.50	471	1,760	NA	
	10-Sep-13	4.43	2.80	472	1,920	NA	
	16-May-13	10.4	<1.66	408	1,930	NA	
	28-Feb-13	10.0	<1.72	469	1,740	NA	
	3-Dec-12	10.7	<1.72	348	1,800	NA	
	21-Aug-12	9.98	<1.72	373	1,640	NA	
	9-May-12	6.88	2.80	401	1,660	NA	
	31-Jan-12	9.90	2.52	439	1,520	NA	
	27-Oct-11	9.56	3.50	436	1,840	256	
	20-Jul-11	12.0	2.38	426	1,650	NA	
	20-Apr-11	10.3	<2.17	460	1,710	NA	
	24-Jan-11	19.8	3.50	408	1,820	NA	
	16-Sep-10	7.56	<10.0	439	1,800	NA	
	29-Jun-10	8.55	<1.0	491	2,120	NA	
	21-Mar-10	6.3	<5.0	500	1,780	NA	
	NMED Split	9-Dec-09	7.5	1.5	550	2,010	NA
		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	29-Aug-14	7.05	<1.80	451	1,690	NA	
	3-Jun-14	5.18	<1.80	506	1,640	NA	
	10-Mar-14	7.75	<1.66	463	1,620	NA	
	11-Dec-13	7.91	2.80	443	1,540	NA	
	9-Sep-13	7.14	<1.66	337	1,900	NA	
	16-May-13	9.19	<1.66	393	1,750	NA	
	1-Mar-13	8.52	<1.72	357	1,520	NA	
	3-Dec-12	8.51	<1.72	345	1,800	NA	
	21-Aug-12	4.39	2.10	301	1,570	NA	
	9-May-12	7.71	<1.72	373	1,830	NA	
	31-Jan-12	7.66	<2.17	335	1,720	NA	
	27-Oct-11	8.30	2.52	380	1,360	475	
	20-Jul-11	7.66	<2.17	374	1,750	NA	
	21-Apr-11	7.97	<2.17	434	1,760	NA	
	24-Jan-11	6.38	2.80	443	2,240	NA	
	16-Sep-10	3.44	<10.0	385	1,790	NA	
	29-Jun-10	8.11	< 0.5	364	1,870	NA	
	21-Mar-10	8.1	<1.0	420	1,970	NA	
	NMED Split	9-Dec-09	9.0	<1.0	440	1,920	NA
		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	29-Aug-14	<0.126	<1.80	686	2,890	NA	
	9-Jun-14	<0.187	<1.80	838	3,410	NA	
	10-Mar-14	0.906	<1.66	917	3,480	NA	
	11-Dec-13	<0.213	<1.66	932	3,180	NA	
	10-Sep-13	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	NA
		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	29-Aug-14	<0.126	<1.80	483	2,060	NA	
	3-Jun-14	0.988	3.50	740	2,810	NA	
	10-Mar-14	1.01	<1.66	694	2,600	NA	
	11-Dec-13	1.69	<1.66	604	2,400	NA	
	5-Sep-13	0.827	9.10	544	2,710	NA	
	16-May-13	<0.0420	<1.66	613	2,320	NA	
	1-Mar-13	2.12	<1.72	510	2,090	NA	
	5-Dec-12	2.740	<1.72	545	2,430	NA	
	21-Aug-12	<0.0290	<1.72	496	2,620	NA	
	9-May-12	0.305	<1.72	502	1,970	NA	
	31-Jan-12	2.05	<2.17	493	2,320	NA	
	26-Oct-11	<0.500	2.80	590	2,950	380	
	20-Jul-11	<0.500	<2.17	670	2,540	NA	
	20-Apr-11	<0.500	<2.17	584	2,570	NA	
	24-Jan-11	<0.00955	2.66	608	2,400	NA	
	16-Sep-10	<0.100	<10.0	683	2,560	NA	
	29-Jun-10	<0.5	1.4	570	2,330	NA	
	21-Mar-10	<2.0	<2.0	620	2,460	NA	
	NMED Split	9-Dec-09	<2.0	1.7	810	2,720	NA
		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	29-Aug-14	1.87	<1.80	230	1,200	NA	
	3-Jun-14	2.20	<1.80	497	2,000	NA	
	10-Mar-14	4.81	<1.66	312	1,510	NA	
	12-Dec-13	0.898	2.80	72.9	695	NA	
	5-Sep-13	2.16	4.90	120	870	NA	
	29-May-13	2.44	<1.66	582	2,580	NA	
	5-Mar-13	<0.246	<1.72	519	2,100	NA	
	5-Dec-12	3.350	<1.72	690	2,930	NA	
	22-Aug-12	<0.0290	<1.72	544	2,260	NA	
	9-May-12	0.908	2.10	566	2,380	NA	
	1-Feb-12	<0.500	<2.17	558	2,020	NA	
	26-Oct-11	<0.500	2.66	647	900	377	
	20-Jul-11	<0.500	5.04	599	2,460	NA	
	20-Apr-11	<0.500	<2.17	430	1,810	NA	
	20-Jan-11	0.128	2.10	477	1,870	NA	
	16-Sep-10	<2.50	<10.0	536	2,220	NA	
	29-Jun-10	<0.5	1.1	627	2,550	NA	
	21-Mar-10	<2.0	<1.0	630	2,340	NA	
	NMED Split	9-Dec-09	<2.0	1.3	710	2,420	NA
		9-Dec-09	<0.1	0.95	563	2,290	362
29-Aug-09		<2.0	<2.0	630	2,310	NA	
13-May-09		<2.0	<5.0	640	2,700	NA	
Duplicate		13-May-09	<10	1.6	618	2,260	NA
DAD-06	12-Aug-14	Dry					
	13-May-14	Dry					
	10-Mar-14	Dry					
	11-Dec-13	Dry					
	5-Sep-13	Dry					
	30-May-13	6.07	<1.66	508	1,690	NA	
	4-Mar-13	7.66	<1.72	496	1,510	NA	
	5-Dec-12	8.25	<1.72	439	1,610	NA	
	21-Aug-12	9.11	2.10	347	1,530	NA	
	9-May-12	11.0	<1.72	375	1,570	NA	
	31-Jan-12	13.6	<2.17	382	1,510	NA	
	27-Oct-11	9.20	<2.17	322	1,060	228	
	20-Jul-11	18.0	3.64	358	1,370	NA	
	21-Apr-11	18.0	<2.17	349	1,330	NA	
	24-Jan-11	12.2	2.10	360	1,270	NA	
	16-Sep-10	9.20	<10.0	359	1,370	NA	
	29-Jun-10	11.6	<2.0	365	1,460	NA	
	21-Mar-10	10	<2.0	390	1,390	NA	
	NMED Split	9-Dec-09	10	<1.0	380	1,380	NA
		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	2-Sep-14	7.48	<1.80	589	2,150	NA	
	12-Jun-14	5.44	<1.80	540	2,020	NA	
	11-Mar-14	4.84	2.10	512	1,980	NA	
	11-Dec-13	7.94	<1.66	700	2,270	NA	
	5-Sep-13	7.01	3.50	650	2,380	NA	
	24-May-13	8.42	<1.66	720	2,570	NA	
	5-Mar-13	8.15	<1.72	724	2,740	NA	
	5-Dec-12	8.03	<1.72	718	2,610	NA	
	22-Aug-12	6.88	<1.72	671	2,540	NA	
	9-May-12	3.81	<1.72	588	2,150	NA	
	31-Jan-12	5.40	<2.17	610	1,640	NA	
	26-Oct-11	5.22	2.24	591	750	426	
	20-Jul-11	4.67	2.80	554	1,880	NA	
	20-Apr-11	4.14	<2.17	525	1,780	NA	
	19-Jan-11	0.410	<2.05	518	1,740	NA	
	16-Sep-10	<2.50	<10.0	637	1,990	NA	
	NMED Split	29-Jun-10	5.17	<0.5	569	2,060	NA
21-Mar-10		5.1	<1.0	640	1,970	NA	
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		2-Sep-14	39.5	<1.80	1,700	5,220	NA
	4-Jun-14	55.8	2.10	2,210	5,840	NA	
	11-Mar-14	71.7	<1.66	2,450	6,400	NA	
	12-Dec-13	70.7	2.80	2,500	6,780	NA	
	5-Sep-13	74.9	2.80	2,440	7,440	NA	
	24-May-13	71.5	<1.66	2,140	6,740	NA	
	4-Mar-13	90.0	<1.72	2,280	7,060	NA	
	5-Dec-12	40.2	<1.72	2,270	5,980	NA	
	22-Aug-12	32.2	<1.72	2,430	7,220	NA	
	9-May-12	2.39	<1.72	1,150	3,260	NA	
	31-Jan-12	2.69	<2.17	1,250	2,990	NA	
	26-Oct-11	2.80	<2.17	1,260	2,500	471	
	20-Jul-11	3.36	3.78	1,320	3,060	NA	
	20-Apr-11	4.33	<2.17	1,300	3,280	NA	
	19-Jan-11	<0.239	2.10	1,240	2,600	NA	
	17-Sep-10	<2.50	<10.0	1,370	3,230	NA	
	29-Jun-10	2.53	<1.0	1,290	5,950	NA	
	21-Mar-10	<4.0	<1.0	1,300	3,270	NA	
	NMED Split	9-Dec-09	<4.0	<1.0	1,400	3,290	NA
		9-Dec-09	3.1	0.26	1,400	3,070	509
29-Aug-09		<4.0	<2.0	1,500	3,180	NA	
14-May-09		3.0	<5.0	1,300	3,600	NA	

**TABLE 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	28-Aug-14	5.25	<1.80	466	1,720	NA
	4-Jun-14	3.14	<1.80	440	1,580	NA
	18-Mar-14	3.44	<1.66	418	1,480	NA
	16-Dec-13	17.4	<1.66	294	1,200	NA
	30-Aug-13	12.3	2.10	454	1,800	NA
	30-May-13	9.69	<1.66	435	1,740	NA
	6-Mar-13	17.1	<1.72	494	1,840	NA
	4-Dec-12	33.1	<1.72	588	2,200	NA
	20-Aug-12	48.4	<1.72	656	2,540	NA
	10-May-12	50.9	<1.72	561	2,270	NA
	31-Jan-12	59.8	<2.17	622	2,220	NA
	26-Oct-11	77.7	<2.17	728	1,600	433
	20-Jul-11	70.2	<2.17	727	2,500	NA
	20-Apr-11	47.5	<2.17	483	1,910	NA
	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	NA
	9-Dec-09	22	1.6	228	1,170	152
	29-Aug-09	46	<5.0	640	2,320	NA
	13-May-09	44	<5.0	740	2,400	NA
DAD-10	3-Oct-14	12.5	<1.80	419	1,720	NA
	28-Aug-14	17.0	<1.80	445	1,740	NA
	9-Jun-14	6.86	<1.80	454	1,560	NA
	18-Mar-14	7.79	<1.66	475	1,620	NA
	16-Dec-13	8.34	4.90	475	1,600	NA
	5-Sep-13	6.01	3.50	451	1,480	NA
	23-May-13	5.42	<1.66	453	1,450	NA
	6-Mar-13	4.83	<1.72	468	1,620	NA
	4-Dec-12	4.33	<1.72	434	1,510	NA
	20-Aug-12	2.86	<1.72	389	2,520	NA
	10-May-12	1.52	<1.72	361	1,400	NA
	31-Jan-12	<0.500	<2.17	433	800	NA
	26-Oct-11	3.33	2.80	384	1,150	206
	20-Jul-11	2.29	<2.17	383	1,290	NA
	20-Apr-11	1.30	<2.17	411	1,340	NA
	19-Jan-11	12.7	2.10	429	1,140	NA
	17-Sep-10	2.73	<10.0	404	1,320	NA
29-Jun-10	1.28	<1.0	390	1,360	NA	
21-Mar-10	<2.0	<1.0	420	1,380	NA	
NMED Split	9-Dec-09	1.4	<1.0	460	1,360	NA
	9-Dec-09	1.5	<0.1	378	1,340	196
	29-Aug-09	1.2	<1.0	420	1,340	NA
	14-May-09	<2.0	<1.0	410	1,300	NA

**TABLE 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)	3-Sep-14	11.1	<1.80	717	2,950	NA
	6-Jun-14	1.31	4.90	477	1,860	NA
	17-Mar-14	12.0	<1.66	890	3,230	NA
	16-Dec-13	15.0	2.10	1,170	3,790	NA
	9-Sep-13	13.6	2.80	1,080	3,560	NA
	29-May-13	15.7	<1.66	1,110	3,600	NA
	1-Mar-13	14.6	<1.72	1,190	3,600	NA
	3-Dec-12	13.4	<1.72	1,210	3,870	NA
	21-Aug-12	8.71	<1.72	818	3,020	NA
	14-May-12	0.791	<1.72	359	1,550	NA
	1-Feb-12	2.38	<2.17	456	1,700	NA
	27-Oct-11	<0.500	<2.17	434	1,290	215
	2-Aug-11	<0.500	<2.17	427	1,490	NA
	5-May-11	<0.500	<2.17	398	1,360	NA
	25-Jan-11	4.60	<2.05	386	1,500	NA
	21-Sep-10	3.21	<10.0	369	1,520	NA
	29-Jun-10	1.6	<1.0	430	1,610	NA
	28-Apr-10	1.5	<1.0	450	1,600	NA
	20-Jan-10	1.4	<1.0	460	1,600	NA
	21-Oct-09	1.0	<1.0	430	1,600	NA
7-Jul-09	0.80	<1.0	470	1,500	NA	
6-May-09	0.97	3.5	450	1,600	NA	
22-Jan-09	1.00	<1.0	370	1,600	NA	
DAD-12 Vertical Delineation	3-Sep-14	18.6	<1.80	588	2,700	NA
	9-Jun-14	19.3	<1.80	603	2,750	NA
	17-Mar-14	20.5	<1.66	621	2,890	NA
	13-Dec-13	18.5	2.10	638	2,840	NA
	10-Sep-13	18.1	2.80	557	2,950	NA
	29-May-13	18.2	<1.66	686	3,130	NA
	28-Feb-13	22.8	<1.72	688	2,820	NA
	3-Dec-12	16.4	<1.72	689	3,070	NA
	21-Aug-12	17.8	2.10	620	2,990	NA
	14-May-12	23.1	<1.72	561	2,870	NA
1-Feb-12	20.8	<2.17	614	2,670	NA	
7-Dec-11	18.8	<2.17	597	2,620	616	
DAD-13	2-Sep-14	6.51	<1.80	386	1,960	NA
	9-Jun-14	5.82	<1.80	507	2,000	NA
	17-Mar-14	6.59	<3.32	528	1,960	NA
	13-Dec-13	5.83	<1.66	546	1,940	NA
	9-Sep-13	3.42	2.80	524	1,800	NA
	29-May-13	5.00	<1.66	550	2,020	NA
	28-Feb-13	5.63	<1.72	582	1,970	NA
	3-Dec-12	5.04	<1.72	504	1,810	NA
	21-Aug-12	3.51	<1.72	420	1,900	NA
	10-May-12	8.66	<1.72	514	2,010	NA
	1-Feb-12	7.59	<2.17	537	1,960	NA
27-Oct-11	7.51	2.52	536	3,700	321	

**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	2-Sep-14	26.7	2.10	878	3,240	NA
	6-Jun-14	29.6	<1.80	943	3,340	NA
	17-Mar-14	41.3	<1.66	1,040	3,620	NA
	13-Dec-13	31.9	<1.66	929	3,160	NA
	9-Sep-13	29.2	3.50	1,010	3,590	NA
	29-May-13	34.6	<1.66	1,030	3,520	NA
	1-Mar-13	42.0	16.8	1,130	3,730	NA
	3-Dec-12	40.3	<1.72	1,150	4,010	NA
	21-Aug-12	33.2	<1.72	919	3,340	NA
	14-May-12	28.8	<1.72	881	3,280	NA
1-Feb-12	20.3	<2.17	861	2,880	NA	
27-Oct-11	17.2	2.80	835	1,780	447	
DAD-15	2-Sep-14	5.97	<1.80	489	1,620	NA
	6-Jun-14	6.09	<1.80	510	1,750	NA
	2-Jan-14	4.72	2.10	497	1,780	NA
	10-Sep-13	7.56	3.50	356	1,740	NA
	29-May-13	5.29	<1.66	504	1,970	NA
	4-Mar-13	5.10	<1.72	515	1,800	NA
	4-Dec-12	4.710	<1.72	484	1,810	256
	20-Aug-12	2.370	35.00	351	1,330	256
DAD-16	2-Sep-14	2.44	<1.80	579	2,300	NA
	3-Jun-14	1.49	2.10	569	2,260	NA
	10-Mar-14	1.65	<1.66	573	2,100	NA
	12-Dec-13	1.28	2.10	561	2,210	NA
	9-Sep-13	0.832	4.20	538	2,260	NA
	29-May-13	1.68	<1.66	501	2,200	NA
	5-Mar-13	2.55	<1.72	674	2,670	NA
	5-Dec-12	2.420	<1.72	529	2,280	NA
	22-Aug-12	<0.0290	<1.72	472	2,000	NA
	14-May-12	0.147	<1.72	378	2,080	NA
	1-Feb-12	<0.500	<2.17	438	1,960	NA
27-Oct-11	<0.500	3.36	410	1,520	408	
DAD-17	3-Sep-14	2.48	<1.80	442	1,920	NA
	3-Jun-14	1.03	<1.80	525	2,600	NA
	11-Mar-14	3.27	<3.32	440	1,820	NA
	12-Dec-13	2.45	2.80	412	1,640	NA
	9-Sep-13	0.370	2.10	451	2,340	NA
	24-May-13	0.827	<1.66	317	1,400	NA
	5-Mar-13	2.06	<1.72	351	1,550	NA
	5-Dec-12	2.28	<1.72	230	1,260	NA
	22-Aug-12	<0.0290	<1.72	189	930	NA
	10-May-12	<0.114	<1.72	353	1,580	NA
	1-Feb-12	<0.500	3.36	113	714	NA
26-Oct-11	<0.500	3.50	175	724	186	

**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-18 Vertical Delineation	3-Sep-14	12.1	<1.80	713	2,960	NA	
	3-Jun-14	13.2	<1.80	749	2,760	NA	
	11-Mar-14	12.8	<1.66	739	2,880	NA	
	12-Dec-13	11.8	2.10	719	2,840	NA	
	9-Sep-13	10.9	2.80	697	3,040	NA	
	29-May-13	11.9	<1.66	734	3,020	NA	
	5-Mar-13	11.2	<1.72	712	2,700	NA	
	5-Dec-12	10.10	<1.72	643	2,690	NA	
	22-Aug-12	9.03	4.62	642	2,790	NA	
	10-May-12	9.11	<1.72	558	2,700	NA	
1-Feb-12	9.62	<2.17	629	2,470	NA		
7-Dec-11	9.21	<2.17	639	2,670	495		
DAD-19 Vertical Delineation	3-Sep-14	41.0	<1.80	899	3,240	NA	
	4-Jun-14	54.3	<1.80	914	3,220	NA	
	18-Mar-14	50.3	<1.66	861	3,130	NA	
	12-Dec-13	48.9	2.10	930	3,240	NA	
	9-Sep-13	54.6	<1.66	1,260	3,270	NA	
	30-May-13	71.3	<1.66	951	3,560	NA	
	4-Mar-13	69.1	<1.72	986	3,430	NA	
	5-Dec-12	54.2	<1.72	851	3,230	NA	
	21-Aug-12	59.2	<1.72	843	3,470	NA	
	10-May-12	54.8	<1.72	835	3,460	NA	
1-Feb-12	59.8	<2.17	913	2,950	NA		
7-Dec-11	47.4	<2.17	789	3,070	544		
DAD-20	28-Aug-14	19.3	<1.80	603	2,400	NA	
	9-Jun-14	20.4	<1.80	773	2,470	NA	
	18-Mar-14	20.6	<1.66	665	2,120	NA	
	16-Dec-13	20.2	2.10	732	2,140	NA	
	5-Sep-13	19.2	5.60	808	2,870	NA	
	23-May-13	25.2	<1.66	707	2,320	NA	
	6-Mar-13	29.5	<1.72	710	2,280	NA	
	4-Dec-12	17.0	<1.72	704	2,350	NA	
	10-May-12	Obstruction in Well					
	31-Jan-12	21.2	<2.17	568	1,000	NA	
7-Dec-11	16.1	<2.17	611	2,020	383		
DAD-21	28-Aug-14	13.0	<1.80	520	2,080	NA	
	4-Jun-14	15.0	<1.80	532	2,180	NA	
	18-Mar-14	18.1	<1.66	592	2,140	NA	
	16-Dec-13	16.9	<1.66	568	1,890	NA	
	5-Sep-13	12.0	4.20	583	1,990	NA	
	24-May-13	6.73	<1.66	509	1,960	NA	
	6-Mar-13	5.76	<1.72	516	1,910	NA	
	4-Dec-12	3.47	<1.72	445	1,720	NA	
	20-Aug-12	3.45	<1.72	409	1,660	NA	
	10-May-12	1.16	<1.72	364	2,840	NA	
31-Jan-12	6.79	2.94	475	1,620	NA		
7-Dec-11	2.14	<2.17	396	1,600	219		

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

**TABLE 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)
Northern Area					
Northern Land Application Area					
70-03	20-Aug-14	49.8	<1.8	2,590	7,000
	15-May-14	48.6	<1.80	2,580	6,880
	19-Feb-14	57.1	<1.66	3,400	8,380
	14-Nov-13	45.4	3.50	2,680	6,800
	9-Aug-13	48.7	3.50	2,740	6,890
	9-May-13	58.4	<1.66	3,290	9,200
	13-Feb-13	59.1	<1.72	3,400	8,440
	7-Nov-12	49.5	<1.72	2,850	7,950
	7-Aug-12	45.3	2.94	2,440	6,700
	25-Apr-12	53.1	5.60	2,540	6,550
	2-Feb-12	67.6	<2.17	2,840	7,480
	7-Nov-11	61.6	<2.17	3,270	7,910
	3-Aug-11	63.1	2.80	3,140	8,040
	21-Apr-11	58.9	<2.17	3,130	8,040
	27-Jan-11	71.2	3.36	3,140	7,580
	22-Sep-10	62.8	<10.0	2,940	7,840
	30-Jun-10	57	<1.0	2,200	5,720
	26-Mar-10	29.6	ND	2,160	5,180
	15-Dec-09	27.1	ND	2,199	5,462
	2-Sep-09	25.4	ND	2,149	5,570
4-Jun-09	18.6	ND	1,999	5,518	
4-Mar-09	35.5	ND	2,074	5,418	
70/86/340-01	15-Aug-14	15.3	<1.80	1,730	5,780
	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	15-Aug-14	11.6	<1.80	400	2,300
	14-May-14	15.4	<1.80	500	2,380
	18-Feb-14	12.4	<1.66	460	2,370
	11-Nov-13	12.2	7.00	641	2,940
	8-Aug-13	12.1	2.10	720	3,230
	9-May-13	12.3	<1.66	603	3,020
	13-Feb-13	12.2	<1.72	571	2,780
	5-Nov-12	12.1	<1.72	638	2,860
	6-Aug-12	11.6	<1.72	708	3,410
	25-Apr-12	12.1	<1.72	641	2,480
	2-Feb-12	12.3	<2.17	655	2,960
	7-Nov-11	11.6	3.08	593	2,910
	25-Jul-11	10.2	<2.17	582	2,500
	21-Apr-11	10.4	<2.17	512	2,660
	27-Jan-11	7.99	<2.17	419	2,040
	22-Sep-10	11.8	<10.0	331	2,060
	30-Jun-10	13	<1.0	410	2,190
	26-Mar-10	9.2	0.7	690	2,656
	29-Jan-10	8.6	ND	530	2,258
	2-Sep-09	8.8	ND	510	2,232
4-Jun-09	5.2	1.12	640	2,582	
4-Mar-09	11.9	ND	675	2,674	
Organ Dairy (Formerly known as Del Norte Dairy and Daybreak Dairy)					
126-04	18-Aug-14	15.1	<1.80	536	2,590
	15-May-14	17.4	16.1	514	2,200
	20-Feb-14	17.1	<1.66	564	2,410
	13-Nov-13	16.7	9.10	567	2,240
	12-Aug-13	15.3	18.2	511	2,170
	10-May-13	15.1	<1.66	499	2,310
	12-Feb-13	18.5	<1.72	614	2,640
	7-Nov-12	16.0	3.50	572	2,500
	7-Aug-12	15.9	2.10	568	2,370
	30-Apr-12	15.7	<1.72	539	2,310
	26-Jan-12	17.4	<2.17	560	1,700
	7-Nov-11	18.2	3.92	581	2,470
	3-Aug-11	18.2	6.44	559	2,460
	22-Apr-11	18.0	5.74	594	2,500
	26-Jan-11	11.1	<2.17	570	2,380
	21-Sep-10	20.5	<10.0	542	2,460
	30-Jun-10	21	<5.0	490	2,160
	25-Mar-10	14.9	0.56	530	1,964
	15-Dec-09	11.5	ND	550	1,974
	2-Sep-09	9	ND	530	2,028
4-Jun-09	5.81	ND	550	2,084	
5-Mar-09	14.1	ND	525	2,122	

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

**TABLE 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	18-Aug-14	2.25	<1.80	832	2,840
	15-May-14	2.52	<1.80	893	2,690
	20-Feb-14	2.12	<1.66	911	2,720
	13-Nov-13	2.25	4.20	919	2,710
	12-Aug-13	2.13	5.60	937	2,710
	10-May-13	2.25	<1.66	898	3,300
	12-Feb-13	2.50	<1.72	991	3,090
	7-Nov-12	2.53	<1.72	984	2,980
	7-Aug-12	2.69	2.10	962	3,050
	30-Apr-12	2.28	5.04	978	2,900
	26-Jan-12	3.93	7.00	1,100	3,180
	7-Nov-11	3.30	5.6	1,130	3,470
	4-Aug-11	3.19	<2.17	1,100	3,180
	22-Apr-11	3.31	<2.17	1,120	2,730
	22-Sep-10	2.50	<10.0	1110	3,320
	30-Jun-10	Not Sampled			
	25-Mar-10				
15-Dec-09					
2-Sep-09					
4-Jun-09					
5-Mar-09					
126-12	18-Aug-14	16.5	<1.80	384	2,220
	15-May-14	15.4	2.10	404	2,250
	20-Feb-14	13.6	2.10	404	2,370
	13-Nov-13	15.7	3.50	401	2,360
	12-Aug-13	17.0	4.20	434	2,400
	10-May-13	16.2	2.10	398	2,380
	12-Feb-13	18.8	<1.72	421	2,480
	7-Nov-12	19.2	<1.72	407	2,490
	7-Aug-12	17.5	<1.72	410	2,460
	30-Apr-12	12.9	1.96	401	2,270
	14-Feb-12	12.5	4.20	418	2,340
	4-Nov-11	13.3	<2.17	430	2,600
	4-Aug-11	13.6	<2.17	449	2,580
	22-Apr-11	13.2	<2.17	461	2,530
	27-Jan-11	12.2	<2.17	453	2,280
	22-Sep-10	12.6	<10.0	446	2,430
	30-Jun-10	15	<2.0	500	2,610
25-Mar-10	8.9	ND	550	2,260	
15-Dec-09	8.7	ND	540	2,296	
2-Sep-09	12.8	0.56	530	2,336	
4-Jun-09	4.08	0.84	530	2,322	
5-Mar-09	11	ND	475	2,320	

**TABLE 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	18-Aug-14	38.2	<1.80	809	3,160
	15-May-14	49.5	<1.80	841	3,010
	20-Feb-14	29.9	<1.66	769	2,780
	13-Nov-13	28.0	2.80	655	2,980
	12-Aug-13	26.8	3.50	780	2,800
	10-May-13	34.1	<1.66	385	3,160
	12-Feb-13	33.7	<1.72	735	2,840
	7-Nov-12	23.8	2.10	751	3,090
	7-Aug-12	26.1	2.10	779	2,860
	30-Apr-12	43.8	<1.72	784	3,120
	26-Jan-12	27.5	<2.17	735	2,800
	7-Nov-11	21.9	<2.17	735	3,060
	4-Aug-11	21.4	<2.17	735	2,840
	22-Apr-11	21.7	<2.17	754	2,640
	26-Jan-11	22.8	<2.17	768	3,130
	22-Sep-10	23.1	<10.0	750	2,850
	30-Jun-10	26	<5.0	810	3,000
	25-Mar-10	10.3	ND	940	2,740
15-Dec-09	14.3	ND	910	2,832	
2-Sep-09	12.8	ND	840	2,746	
4-Jun-09	16.3	ND	970	2,768	
5-Mar-09	19.4	ND	845	2,800	
Mountain View Dairy					
70-01	20-Aug-14	22.5	<1.80	596	2,610
	15-May-14	23.3	2.10	632	2,540
	19-Feb-14	22.6	<1.66	616	2,620
	14-Nov-13	22.3	3.50	510	2,620
	8-Aug-13	22.8	2.80	638	2,670
	9-May-13	22.4	<1.66	616	2,740
	13-Feb-13	24.7	<1.72	655	2,680
	7-Nov-12	21.2	<1.72	636	2,700
	7-Aug-12	21.4	2.10	637	2,700
	25-Apr-12	21.7	<1.72	659	2,490
	2-Feb-12	21.5	2.94	633	2,530
	7-Nov-11	21.1	5.18	622	1,860
	3-Aug-11	20.7	2.8	641	2,630
	22-Apr-11	22.7	22.4	646	2,760
	27-Jan-11	22.5	2.94	650	2,500
	22-Sep-10	19.3	12.3	617	2,610
	30-Jun-10	27	<1.0	600	2,400
	25-Mar-10	14.5	ND	670	2,096
	15-Dec-09	17.1	ND	640	2,218
	1-Sep-09	8.4	ND	630	2,244
2-Jun-09	9.35	ND	640	2,112	
4-Mar-09	20.8	ND	610	2,254	

**TABLE 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	20-Aug-14	35.8	<1.80	766	3,160
	14-May-14	37.0	<1.80	781	3,220
	19-Feb-14	36.9	<1.66	793	3,160
	14-Nov-13	36.1	4.90	837	3,200
	9-Aug-13	20.9	29.4	815	2,890
	9-May-13	37.4	<1.66	790	3,260
	13-Feb-13	38.1	<1.72	841	3,160
	7-Nov-12	36.2	<1.72	820	3,300
	7-Aug-12	36.3	3.78	826	3,260
	25-Apr-12	37.9	<1.72	749	2,260
	2-Feb-12	37.5	<2.17	829	3,160
	7-Nov-11	37.7	<2.17	828	2,790
	4-Aug-11	36.8	5.04	798	3,160
	22-Apr-11	38.1	8.40	836	3,220
	27-Jan-11	44.2	6.02	863	3,390
	22-Sep-10	32.2	<10.0	829	3,070
	30-Jun-10	46	<1.0	860	3,170
	25-Mar-10	19.6	ND	930	3,076
15-Dec-09	18.3	ND	960	3,012	
9-Jan-09	21.4	ND	970	3,148	
2-Jun-09	17.8	ND	920	3,084	
4-Mar-09	35.8	ND	940	3,104	
70-04	20-Aug-14	24.4	<1.80	577	2,950
	15-May-14	24.6	<1.80	610	2,630
	19-Feb-14	22.3	<1.66	607	2,580
	14-Nov-13	21.0	2.80	649	2,630
	9-Aug-13	21.7	4.20	636	2,780
	9-May-13	23.0	<1.66	630	3,510
11-Jan-13	19.5	<1.72	613	6,200	
Buena Vista Dairy I					
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)
Bright Star Dairy					
340-01	15-Aug-14	37.9	<1.80	383	2,800
	14-May-14	27.4	<1.80	608	2,770
	20-Feb-14	29.1	2.80	564	2,800
	11-Nov-13	29.2	3.50	600	2,800
	8-Aug-13	28.6	4.90	694	2,000
	9-May-13	31.1	<1.66	577	3,700
	13-Feb-13	27.0	<1.72	711	3,340
	5-Nov-12	23.8	<1.72	855	3,180
	6-Aug-12	22.7	<1.72	694	3,380
	25-Apr-12	26.3	61.0	681	2,540
	2-Feb-12	27.4	<2.17	661	2,780
	4-Nov-11	26.6	4.34	691	2,910
	25-Jul-11	28.3	4.20	747	2,830
	27-Jan-11	31.1	3.50	578	2,840
	21-Sep-10	24.8	<10.0	513	3,070
	29-Jun-10	29	<0.10	610	2,810
	24-Mar-10	18.8	ND	580	2,508
15-Dec-09	13.1	ND	650	2,608	
1-Sep-09	12.20	ND	530	2,522	
2-Jun-09	8.67	ND	590	2,434	
4-Mar-09	28.3	ND	530	2,516	
340-02	15-Aug-14	84.4	<1.80	772	3,420
	14-May-14	84.6	<1.80	793	3,130
	20-Feb-14	86.8	<1.66	806	3,080
	11-Nov-13	87.0	3.50	807	3,160
	8-Aug-13	80.2	4.90	794	3,180
	9-May-13	74.6	<1.66	744	3,180
	13-Feb-13	81.6	<1.72	805	3,550
	5-Nov-12	73.8	4.90	923	3,220
	6-Aug-12	74.0	<1.72	749	3,380
	25-Apr-12	69.8	6.16	727	2,890
	4-Nov-11	75.0	5.74	755	3,620
	22-Jul-11	84.8	7.98	777	2,970
	27-Jan-11	94.1	2.24	760	3,500
	21-Sep-10	92.2	<10.0	778	3,260
	29-Jun-10	87	<0.10	850	3,180
	24-Mar-10	95	ND	930	3,070
	15-Dec-09	82	ND	910	3,072
1-Sep-09	94	ND	890	3,072	
2-Jun-09	43.2	ND	880	2,954	
4-Mar-09	41.5	ND	885	3,098	

**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)
Former D&J Dairy (Dominguez 2)					
42-02	26-Aug-14	7.62	<1.80	477	2,350
	21-May-14	10.2	2.10	498	2,460
	26-Feb-14	9.28	<1.66	469	2,180
	26-Nov-13	9.62	2.10	490	2,260
	20-Aug-13	14.5	4.90	459	2,360
	14-May-13	12.0	<1.66	432	2,220
	15-Feb-13	17.6	<1.72	457	2,360
	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	26-Aug-14	78.0	<1.80	891	3,360
	21-May-14	62.6	<1.80	1,100	3,720
	26-Feb-14	62.8	<1.66	1,070	3,160
	26-Nov-13	62.9	2.80	1,090	3,660
	15-Aug-13	67.5	17.5	1,090	3,560
	14-May-13	59.6	<1.66	1,150	3,800
	15-Feb-13	60.3	<1.72	1,140	3,800
	9-Nov-12	56.2	<1.72	1,120	3,800
	8-Aug-12	71.1	<1.72	1,370	3,520
	1-May-12	51.5	<1.72	1,030	3,620
	16-Feb-12	51.3	<2.17	1,130	3,760
	9-Nov-11	58.9	2.80	1,000	3,660
	1-Aug-11	59.2	<2.17	1,030	3,720
	25-Apr-11	58.8	<2.17	1,080	3,620
	28-Jan-11	69.5	3.78	1,160	3,690
	1-Oct-10	63.0	<10.0	1,090	3,640
	27-Jun-10	49	<5.0	1,100	3,780
6-Mar-10	39.6	<0.3	1,180	3,935	
16-Jan-10	43.3	<0.3	1,200	3,800	
15-Sep-09	52.3	0.3	1,130	3,765	
3-Jun-09	48.2	0.3	1,240	3,860	
14-Mar-09	32.2	<0.2	1,240	3,800	

**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	13-Aug-14	83.6	<1.80	302	2,220
	21-May-14	87.9	2.80	395	2,440
	26-Feb-14	59.3	<1.66	417	2,380
	26-Nov-13	76.3	2.10	397	2,270
	20-Aug-13	95.1	4.90	432	2,580
	14-May-13	86.5	<1.66	413	2,390
	15-Feb-13	82.9	<1.72	457	2,430
	9-Nov-12	75.9	<1.72	478	2,570
	8-Aug-12	81.5	1.82	484	2,475
	1-May-12	87.0	1.96	720	2,920
	16-Feb-12	92.4	<2.17	630	3,100
	9-Nov-11	101	<2.17	617	3,000
	2-Aug-11	88.6	3.22	525	2,980
	25-Apr-11	72.2	<2.17	454	2,500
	28-Jan-11	69.8	4.20	421	2,780
	1-Oct-10	113	<10.0	497	2,660
	27-Jun-10	46	<5.0	400	2,550
	6-Mar-10	43.1	<0.3	480	2,510
16-Jan-10	44.2	0.3	1,150	2,600	
14-Sep-09	54.8	0.4	450	2,600	
3-Jun-09	0.02	<0.2	1,240	3,780	
14-Mar-09	49.7	0.2	480	2,540	
42-07	26-Aug-14	Dry			
	22-May-14	Dry			
	26-Feb-14	Dry			
	26-Nov-13	Dry			
	15-Aug-13	Dry			
	14-May-13	Dry			
	15-Feb-13	Dry			
	9-Nov-12	Dry			
	8-Aug-12	Dry			
	1-May-12	Dry			
	16-Feb-12	Dry			
	9-Nov-11	57.9	<2.17	1,090	3,450
	2-Aug-11	Dry			
	25-Apr-11	68.5	<2.17	1,230	4,080
	28-Jan-11	88.3	4.48	1,130	4,180
	1-Oct-10	92.0	<40.0	1,390	4,260
	27-Jun-10	63	<5.0	1,400	4,330
	6-Mar-10	63.1	<0.3	1,490	4,345
16-Jan-10	59.6	<0.3	1,480	4,275	
15-Sep-09	66.6	<0.3	1,290	4,195	
3-Jun-09	57.4	<0.2	1,550	4,225	
14-Mar-09	43.7	<0.2	1,500	4,110	

**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	26-Aug-14	36.1	<1.80	159	1,500
	21-May-14	33.1	<1.80	149	1,470
	26-Feb-14	32.6	<1.66	251	1,790
	26-Nov-13	30.8	2.10	275	1,780
	20-Aug-13	30.3	6.30	292	2,000
	14-May-13	29.9	<1.66	259	1,880
	15-Feb-13	31.8	<1.72	284	1,860
	9-Nov-12	30.4	<1.72	283	1,930
	8-Aug-12	36.4	<1.72	307	1,938
	1-May-12	36.0	<1.72	246	1,700
	16-Feb-12	37.0	<2.17	254	1,850
	9-Nov-11	40.0	<2.17	269	1,770
	2-Aug-11	41.3	2.38	253	2,030
	25-Apr-11	51.4	2.66	201	1,970
	28-Jan-11	46.2	5.46	219	2,020
	1-Oct-10	49.0	<10.0	288	2,160
	27-Jun-10	75	<5.0	300	2,220
	6-Mar-10	76.8	<0.3	365	2,290
16-Jan-10	82.8	<0.3	350	2,315	
15-Sep-09	87.1	0.7	410	2,340	
3-Jun-09	65.8	0.8	380	2,175	
14-Mar-09	43.2	0.4	400	2,220	
42-09	26-Aug-14	46.5	<1.80	674	3,000
	22-May-14	59.3	<1.80	699	3,060
	26-Feb-14	53.5	<1.66	715	3,030
	26-Nov-13	51.2	2.80	731	3,030
	15-Aug-13	56.1	37.8	725	3,010
	14-May-13	51.6	<1.66	717	3,200
	15-Feb-13	47.0	<1.72	653	2,870
	9-Nov-12	48.4	<1.72	641	3,030
	8-Aug-12	49.5	<1.72	597	2,475
	1-May-12	50.3	<1.72	542	2,820
	16-Feb-12	50.7	<2.17	627	2,920
	9-Nov-11	47.8	<2.17	591	1,810
	1-Aug-11	55.0	<2.17	579	2,750
	25-Apr-11	65.8	<2.17	664	2,820
	28-Jan-11	44.9	<2.17	537	2,940
	28-Sep-10	38.0	<10.0	591	2,760
	27-Jun-10	68	<5.0	610	3,010
	6-Mar-10	NS	NS	NS	NS
16-Jan-10	52.8	<0.3	690	2,970	
15-Sep-09	68.8	0.7	650	3,000	
3-Jun-09	66.5	0.7	690	3,000	
14-Mar-09	59.5	0.4	700	3,050	

**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	26-Aug-14	1.08	<1.80	410	1,340
	22-May-14	1.25	<1.80	457	1,420
	26-Feb-14	0.982	<1.66	416	1,400
	26-Nov-13	1.10	2.10	435	1,420
	20-Aug-13	0.991	9.10	423	1,540
	14-May-13	0.976	<1.66	395	1,400
	15-Feb-13	<0.246	<1.72	415	1,380
	9-Nov-12	<0.0290	<1.72	397	1,350
	8-Aug-12	0.186	<1.72	403	1,328
	1-May-12	0.236	<1.72	363	1,260
	16-Feb-12	<0.500	<2.17	419	1,440
	8-Nov-11	<0.500	<2.17	425	1,510
	2-Aug-11	<0.500	<2.17	469	1,540
	25-Apr-11	<0.500	<2.17	453	1,500
	28-Jan-11	2.15	<2.17	345	1,280
	1-Oct-10	0.220	<10.0	360	1,450
	27-Jun-10	<0.50	<1.0	420	1,490
	6-Mar-10	0.23	<0.3	440	1,500
16-Jan-10	<0.03	<0.3	430	1,435	
15-Sep-09	0.16	<0.3	400	1,425	
3-Jun-09	0.21	<0.2	450	1,535	
14-Mar-09	0.02	<0.2	480	1,480	
42-11	27-Aug-14	1 7/9	6 2/7	295	1200
	22-May-14	1 7/8	<1.80	312	1120
	26-Feb-14	1 4/9	<1.66	339	1280
	26-Nov-13	1 3/7	2 4/5	344	1260
	20-Aug-13	1 1/2	2 4/5	334	1280
	14-May-13	1 7/9	<1.66	303	1220
	15-Feb-13	1 2/3	<1.72	327	1210
	9-Nov-12	<0.0290	<1.72	315	1230
	8-Aug-12	1 1/5	<1.72	308	1182
	1-May-12	1 1/4	<1.72	274	1160
	16-Feb-12	<0.500	<2.17	337	1240
	8-Nov-11	2	<2.17	334	1480
	2-Aug-11	3	<2.17	308	1160
	25-Apr-11	3 4/9	<2.17	304	795
	28-Jan-11	1/2	2 3/8	285	1300
	1-Oct-10	5/8	<10.0	300	1250
	27-Jun-10	3 8/9	<1.0	290	1080
	6-Mar-10	1/2	<0.3	370	1300
16-Jan-10	0	<0.3	370	1325	
15-Sep-09	2/5	<0.3	320	1245	
3-Jun-09	3	2/3	300	1080	
14-Mar-09	8/9	<0.2	310	1225	

**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	26-Aug-14	1.96	48.3	319	1,290
	22-May-14	2.18	<1.80	337	1,160
	26-Feb-14	1.87	<1.66	336	1,180
	26-Nov-13	1.95	2.10	341	1,160
	20-Aug-13	1.77	3.50	337	1,200
	14-May-13	1.73	<1.66	319	1,170
	15-Feb-13	1.72	<1.72	332	1,170
	9-Nov-12	<0.0290	<1.72	315	1,170
	8-Aug-12	1.15	2.66	333	1,134
	1-May-12	0.750	<1.72	282	1,180
	16-Feb-12	<0.500	<2.17	341	1,200
	8-Nov-11	<0.500	<2.17	331	730
	2-Aug-11	<0.100	<2.17	331	1,340
	25-Apr-11	<0.500	<2.17	339	1,280
	28-Jan-11	0.580	<2.17	276	970
	1-Oct-10	4.50	<10.0	312	1,280
	27-Jun-10	0.72	<1.0	320	1,270
	6-Mar-10	0.13	<0.3	350	1,230
16-Jan-10	0.42	<0.3	340	1,250	
15-Sep-09	0.65	<0.3	310	1,215	
3-Jun-09	0.82	<0.2	330	1,280	
14-Mar-09	0.70	<0.2	340	1,240	
42-13	27-Aug-14	77.9	2.10	927	3,490
	22-May-14	50.9	<1.80	873	3,560
	26-Feb-14	50.0	<1.66	871	3,340
	26-Nov-13	49.8	3.50	895	3,260
	15-Aug-13	59.9	3.50	891	3,380
	14-May-13	49.7	<1.66	809	3,320
	15-Feb-13	54.3	<1.72	855	3,430
	9-Nov-12	52.2	<1.72	835	3,250
	8-Aug-12	62.3	<1.72	871	3,110
	1-May-12	81.5	<1.72	902	3,550
	16-Feb-12	99.1	<2.17	1,020	3,880
	9-Nov-11	61.5	<2.17	901	3,160
	2-Aug-11	106	<2.17	1,900	3,280
	25-Apr-11	55.9	<2.17	1,000	3,600
	28-Jan-11	52.6	<2.17	868	3,720
	29-Sep-10	44.5	<10.0	833	3,360
	27-Jun-10	48	<5.0	1,000	3,810
	6-Mar-10	NS	NS	NS	NS
16-Jan-10	46.3	<0.3	1,130	3,810	
15-Sep-09	54.8	0.5	1,100	3,940	
3-Jun-09	51.6	<0.2	1,110	3,775	
14-Mar-09	51.0	0.6	1,040	3,735	

**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)
Dominguez					
624-01	19-Aug-14	11.8	<1.80	794	2,590
	20-May-14	23.2	4.90	1,050	3,320
	25-Feb-14	18.6	<1.66	950	3,080
	19-Nov-13	23.6	2.10	1,080	3,250
	14-Aug-13	15.4	3.50	970	2,990
	13-May-13	20.8	<1.66	894	2,720
	14-Feb-13	15.6	<1.72	827	2,980
	12-Nov-12	12.2	<1.72	652	2,590
	9-Aug-12	17.4	2.80	1,080	3,550
	30-Apr-12	8.69	36.4	1,400	4,180
	7-Feb-12	10.0	9.52	1,420	3,180
	4-Nov-11	10.8	5.60	1,430	3,460
	3-Aug-11	10.7	<2.17	1,580	3,970
	27-Apr-11	<0.500	30.8	1,330	4,040
	25-Jan-11	14.0	<2.17	1,280	3,760
	21-Sep-10	8.20	<10.0	1,260	3,780
	27-Jun-10	11	<2.0	1,600	4,520
6-Mar-10	17.2	<0.3	910	2,610	
16-Jan-10	5.5	0.4	840	2,540	
15-Sep-09	6.5	0.6	760	2,455	
3-Jun-09	16.1	0.7	810	2,790	
14-Mar-09	21.9	0.3	1,190	3,305	
624-02	19-Aug-14	13.9	<1.80	995	3,380
	20-May-14	12.7	2.10	1,010	3,350
	25-Feb-14	12.4	<1.66	965	3,320
	19-Nov-13	12.6	9.10	969	3,200
	14-Aug-13	11.4	4.20	1,030	3,350
	13-May-13	9.98	<1.66	950	3,360
	14-Feb-13	9.30	2.10	1,110	3,580
	12-Nov-12	12.7	<1.72	1,170	3,830
	9-Aug-12	9.69	<1.72	1,300	4,010
	30-Apr-12	16.4	4.06	1,160	3,650
	7-Feb-12	14.8	<2.17	1,200	3,720
	4-Nov-11	10.7	3.5	1,300	4,060
	3-Aug-11	12.2	<2.17	1,290	3,600
	27-Apr-11	11.6	7.70	1,340	4,170
	25-Jan-11	19.1	<2.17	1,290	3,700
	20-Sep-10	19.6	<10.0	1,300	4,130
	27-Jun-10	14	<2.0	1,400	4,230
6-Mar-10	23.7	<0.3	1,400	3,880	
16-Jan-10	22.6	0.4	1,300	3,630	
15-Sep-09	19.9	0.8	1,260	3,625	
3-Jun-09	29.4	0.4	1,340	3,905	
14-Mar-09	26.5	0.4	1,240	3,655	

**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	19-Aug-14	Dry			
	20-May-14	Dry			
	25-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	14-Feb-13	Dry			
	12-Nov-12	Dry			
	9-Aug-12	Dry			
	30-Apr-12	Dry			
	7-Feb-12	Dry			
	4-Nov-11	Dry			
	3-Aug-11	1.84	<2.17	478	2,760
	27-Apr-11	2.60	5.74	566	2,830
	26-Jan-11	3.23	2.52	747	3,480
	21-Sep-10	6.0	<10.0	758	3,750
	27-Jun-10	3.7	1.4	810	3,950
	6-Mar-10	4.3	0.4	890	4,050
16-Jan-10	4.2	0.7	800	3,845	
15-Sep-09	9.3	0.8	840	3,750	
3-Jun-09	16.0	0.6	520	2,900	
14-Mar-09	18.1	0.6	520	2,820	
624-05	19-Aug-14	Dry			
	20-May-14	Dry			
	25-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	14-Feb-13	6.72	<1.72	508	2,040
	12-Nov-12	4.82	<1.72	440	2,200
	9-Aug-12	4.11	1.82	472	2,050
	30-Apr-12	3.70	2.10	346	1,710
	7-Feb-12	3.38	<2.17	411	2,040
	4-Nov-11	2.58	4.20	385	1,980
	3-Aug-11	3.34	<2.17	1,080	1,940
	27-Apr-11	3.34	4.76	424	1,840
	26-Jan-11	3.62	<2.17	392	1,740
	21-Sep-10	11.9	<10.0	449	2,300
	27-Jun-10	27	< 5.0	480	2,450
	6-Mar-10	30.5	0.4	520	2,595
16-Jan-10	21.4	0.9	520	2,605	
15-Sep-09	34.8	1.0	530	2,620	
3-Jun-09	33.8	1.3	500	2,650	
14-Mar-09	23.9	1.2	490	2,565	

**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	19-Aug-14	Dry			
	20-May-14	Dry			
	25-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	14-Feb-13	31.5	<1.72	1,150	3,600
	12-Nov-12	28.3	<1.72	1,060	3,840
	9-Aug-12	30.8	7.56	1,080	3,420
	30-Apr-12	31.1	8.40	1,010	3,300
	7-Feb-12	30.9	6.30	1,080	3,020
	4-Nov-11	29.5	8.68	1,040	2,860
	3-Aug-11	29.8	<2.17	1,080	3,240
	27-Apr-11	29.0	3.50	1,050	3,180
	26-Jan-11	29.1	2.94	1,080	2,760
	21-Sep-10	26.7	<10.0	1,060	3,270
	27-Jun-10	30	<5.0	1,100	3,570
6-Mar-10	28.3	<0.3	1,250	3,550	
16-Jan-10	52.2	0.6	2,100	3,545	
15-Sep-09	27.8	0.7	1,150	3,425	
3-Jun-09	38.3	0.8	70	4,300	
14-Mar-09	36.5	0.3	1,300	3,800	
624-07	19-Aug-14	Not Sampled - insufficient water to sample			
	20-May-14	Dry			
	26-Feb-14	Not Sampled - insufficient water to sample			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	14-Feb-13	Dry			
	12-Nov-12	Dry			
	9-Aug-12	Dry			
	30-Apr-12	Dry			
	7-Feb-12	Not Sampled - insufficient water to sample			
	4-Nov-11	Not Sampled - insufficient water to sample			
	3-Aug-11	8.01	<2.17	473	1,600
	27-Apr-11	19.4	3.50	539	2,290
	26-Jan-11	14.7	5.60	516	1,900
	21-Sep-10	20.5	<10.0	531	2,200
	27-Jun-10	61	<5.0	880	3,550
	6-Mar-10	43.4	<0.3	1,080	3,825
	16-Jan-10	49.5	0.5	840	3,275
	15-Sep-09	50.1	0.4	960	3,280
3-Jun-09	75.2	0.8	1,525	4,980	
14-Mar-09	54.3	0.3	1,160	3,580	

**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	19-Aug-14	Dry			
	20-May-14	Dry			
	26-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	14-Feb-13	Dry			
	9-Aug-12	Dry			
	30-Apr-12	Dry			
	7-Feb-12	Dry			
	4-Nov-11	Dry			
	3-Aug-11	Dry			
	27-Apr-11	2.45	3.50	200	1,400
	26-Jan-11	1.7	8.12	222	2,940
	21-Sep-10	<2.50	<10.0	197	1,200
	27-Jun-10	2.0	<1.0	220	1,310
	6-Mar-10	0.65	<0.3	280	1,330
16-Jan-10	0.89	<0.3	240	1,215	
15-Sep-09	2.3	0.3	200	1,205	
3-Jun-09	1.7	0.7	210	1,280	
14-Mar-09	1.8	<0.2	205	1,165	
Gonzalez					
177-01	18-Aug-14	30.5	2.80	1,100	3,780
	16-May-14	33.8	<1.80	1,380	3,840
	21-Feb-14	33.7	<1.66	1,310	3,870
	18-Nov-13	33.2	2.80	1,330	3,740
	13-Aug-13	32.2	4.20	1,370	3,850
	15-May-13	31.6	<1.66	1,300	3,940
	19-Feb-13	28.4	<1.72	1,310	3,930
	13-Nov-12	27.7	<1.72	1,190	3,780
	13-Aug-12	27.3	2.52	1,160	3,790
	26-Apr-12	28.5	<1.72	1,460	3,500
	6-Feb-12	28.1	<2.17	1,180	3,650
	3-Nov-11	27.4	2.66	1,170	3,790
	2-Aug-11	26.0	2.24	1,200	4,000
	4-May-11	26.6	<2.17	1,160	4,020
	25-Jan-11	23.3	4.06	1,160	3,540
	20-Sep-10	17.6	12.7	1,120	3,480
	29-Jun-10	34	<1.0	1,200	3,660
	28-Apr-10	31	<5.0	1,200	3,680
	20-Jan-10	32	<5.0	1,200	3,640
	21-Oct-09	35	<5.0	1,100	3,700
7-Jul-09	35	<5.0	1,400	3,700	
6-May-09	34	<5.0	1,300	3,700	
22-Jan-09	33	<5.0	1,300	3,700	

**TABLE 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	18-Aug-14	17.1	<1.80	864	2,810
	16-May-14	43.0	<1.80	803	2,980
	21-Feb-14	67.9	<1.66	725	3,180
	18-Nov-13	111	2.80	682	3,150
	13-Aug-13	30.7	4.20	794	3,020
	15-May-13	27.6	<1.66	910	3,000
	19-Feb-13	29.3	<1.72	902	3,100
	13-Nov-12	35.8	<1.72	870	3,320
	13-Aug-12	47.4	7.70	899	3,650
	26-Apr-12	36.0	<1.72	881	2,960
	6-Feb-12	37.0	<2.17	958	3,320
	3-Nov-11	32.7	<2.17	971	3,450
	3-Aug-11	34.4	2.80	997	3,340
	4-May-11	38.1	2.52	1,050	3,580
	25-Jan-11	31.6	3.36	1,050	3,640
	20-Sep-10	78.0	<10.0	964	3,630
	29-Jun-10	58	<1.0	1,000	3,830
	28-Apr-10	60	<5.0	1,100	3,860
	20-Jan-10	59	<5.0	1,200	4,020
	21-Oct-09	50	<5.0	1,200	4,000
7-Jul-09	56	<5.0	1,300	4,000	
6-May-09	52	<5.0	1,200	4,000	
22-Jan-09	72	<5.0	1,300	4,000	
177-03A	19-Aug-14	10.9	<1.80	859	2,720
	19-May-14	11.4	<1.80	950	3,220
	24-Feb-14	15.6	2.10	1,160	3,900
	18-Nov-13	14.3	2.10	1,150	3,490
	13-Aug-13	17.1	2.80	1,230	4,120
	15-May-13	16.0	<1.66	1,150	3,530
	18-Feb-13	15.5	<1.72	1,290	3,900
	13-Nov-12	12.2	<1.72	1,150	3,900
	13-Aug-12	7.86	<1.72	835	2,810
	26-Apr-12	1.16	<1.72	378	1,430
	6-Feb-12	2.00	<2.17	452	1,580
4-Nov-11	<0.500	3.50	436	1,850	

**TABLE 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-Aug-14	18.2	<1.80	1,150	3,830
	19-May-14	17.5	<1.80	1,320	3,970
	24-Feb-14	17.6	<1.66	1,290	4,020
	18-Nov-13	23.0	2.80	1,260	3,850
	13-Aug-13	19.1	2.10	1,270	3,530
	15-May-13	19.4	<1.66	1,110	3,600
	18-Feb-13	20.5	<1.72	1,120	3,450
	13-Nov-12	22.3	<1.72	1,070	3,630
	13-Aug-12	19.7	<1.72	1,000	3,720
	26-Apr-12	21.7	<1.72	1,050	3,480
	2-Feb-12	22.5	<2.17	1,100	3,650
	3-Nov-11	27.5	<2.17	1,100	3,500
	2-Aug-11	21.6	<2.17	1,080	3,670
	4-May-11	21.2	3.64	1,100	3,740
	25-Jan-11	17.5	2.38	1,150	3,760
	20-Sep-10	4.83	<10.0	1,180	4,030
	29-Jun-10	26	<1.0	1,200	4,010
	28-Apr-10	26	<5.0	1,300	4,090
	20-Jan-10	27	<5.0	1,400	4,090
	21-Oct-09	29	<5.0	1,400	4,100
7-Jul-09	32	<5.0	1,400	3,990	
6-May-09	32	<5.0	1,300	3,800	
22-Jan-09	26	<5.0	1,200	1,700	
177-05	19-Aug-14	18.1	<1.80	1,680	4,800
	19-May-14	35.7	<1.80	1,400	4,000
	24-Feb-14	26.6	<1.66	1,600	4,460
	18-Nov-13	33.5	2.10	1,580	4,360
	13-Aug-13	30.5	2.80	1,640	4,420
	15-May-13	29.8	<1.66	1,510	4,160
	18-Feb-13	32.6	<1.72	1,430	3,900
	13-Nov-12	37.1	<1.72	1,240	4,050
	13-Aug-12	37.6	2.66	1,390	4,360
	26-Apr-12	47.1	<1.72	1,090	3,440
	2-Feb-12	42.2	<2.17	1,170	3,590
	3-Nov-11	30.6	<2.17	1,190	3,060
	2-Aug-11	36.3	<2.17	1,120	3,420
	4-May-11	40.6	5.60	1,090	3,500
	25-Jan-11	39.2	2.10	1,060	3,240
	20-Sep-10	7.39	<10.0	1,050	3,500
	29-Jun-10	39	<1.0	1,100	3,470
	28-Apr-10	40	<5.0	1,200	3,460
	20-Jan-10	43	<5.0	1,100	3,330
	21-Oct-09	50	<5.0	1,100	3,300
7-Jul-09	38	<5.0	1,200	3,270	
6-May-09	40	<5.0	1,100	3,100	
22-Jan-09	40	<5.0	1,100	3,000	

**TABLE 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	13-Aug-14	Dry			
	19-May-14	Dry			
	24-Feb-14	Dry			
	21-Nov-13	24.1	14.0	1,080	3,110
	18-Nov-13	Insufficient Water to Sample			
	13-Aug-13	Insufficient Water to Sample			
	15-May-13	Insufficient Water to Sample			
	18-Feb-13	17.4	<1.72	963	3,000
	13-Nov-12	16.1	<1.72	918	3,020
	26-Apr-12	Dry			
	2-Feb-12	16.1	4.76	934	2,940
	7-Dec-11	15.1	<2.17	892	2,760
	2-Aug-11	16.1	<2.17	910	3,020
	4-May-11	17.2	4.90	955	2,930
	25-Jan-11	19.2	<2.05	923	2,740
	20-Sep-10	<2.50	<10.0	890	2,880
	29-Jun-10	23	<1.0	940	2,960
	28-Apr-10	21	<5.0	980	2,960
	20-Jan-10	26	<5.0	1,000	2,910
	21-Oct-09	25	<5.0	980	2,900
7-Jul-09	25	<5.0	1,000	2,850	
6-May-09	25	<5.0	1,000	2,800	
22-Jan-09	23	<5.0	960	2,800	
177-07	15-Mar-03	44.4	1.5	1,205	4,007
177-07R	19-Aug-14	28.2	<1.80	980	3,120
	19-May-14	22.7	2.10	895	2,910
	24-Feb-14	22.7	<1.66	903	3,080
	18-Nov-13	21.5	2.10	911	3,060
	13-Aug-13	30.3	2.80	1,010	3,540
	15-May-13	29.2	<1.66	1,000	3,420
	19-Feb-13	31.0	<1.72	976	3,360
	13-Nov-12	31.0	<1.72	1,040	3,570
	13-Aug-12	26.5	<1.72	1,040	3,670
	26-Apr-12	22.8	<1.72	1,010	2,690
	6-Feb-12	28.5	5.60	1,060	2,730
	4-Nov-11	29.3	2.66	1,050	2,830
	3-Aug-11	25.2	2.80	1,050	3,250
7-Apr-11	21.4	2.52	1,070	8,660	

**TABLE 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)
Central Area					
Buena Vista Dairy II					
74-01	20-Aug-14	76.2	<1.8	866	3,480
	20-May-14	62.6	2.10	816	3,080
	3-Mar-14	57.2	2.10	855	3,200
	19-Nov-13	63.6	4.20	898	3,210
	21-Aug-13	63.9	2.80	829	3,180
	16-May-13	72.3	<1.66	816	3,090
	19-Feb-13	59.1	<1.72	840	3,140
	14-Nov-12	94.2	8.40	963	3,510
	10-Aug-12	78.6	3.50	922	2,150
	3-May-12	65.3	<1.72	778	3,265
	8-Feb-12	Not Sampled			
	3-Nov-11	64.6	<2.17	811	2,830
	1-Aug-11	73.2	<2.17	770	3,040
	26-Apr-11	67.8	<2.17	730	3,300
	25-Jan-11	41.7	13.0	738	2,960
	17-Sep-10	36.7	<10.0	695	2,760
	29-Jun-10	74	<1.0	850	3,350
	24-Mar-10	70	ND	840	3,070
	14-Dec-09	84	0.14	750	2,480
	1-Sep-09	92	ND	730	2,914
2-Jun-09	33.2	ND	650	2,632	
3-Mar-09	43.8	ND	735	2,666	
74-02	20-Aug-14	29.8	<1.80	567	2,360
	20-May-14	25.7	2.10	579	2,230
	3-Mar-14	24.7	<1.66	588	2,260
	20-Nov-13	28.8	2.10	625	2,340
	21-Aug-13	20.0	2.80	564	2,220
	16-May-13	15.5	<1.66	549	2,120
	19-Feb-13	13.9	<1.72	525	1,900
	14-Nov-12	12.7	2.10	484	2,150
	10-Aug-12	14.0	2.10	532	2,060
	3-May-12	16.4	<1.72	495	1,980
	8-Feb-12	15.2	5.46	519	2,150
	3-Nov-11	26.3	<2.17	558	2,510
	29-Jul-11	52.8	2.24	630	2,710
	26-Apr-11	93.2	<2.17	831	3,610
	25-Jan-11	65.7	2.80	824	3,670
	17-Sep-10	30.6	<10.0	665	2,400
	29-Jun-10	45	<1.0	730	2,780
	24-Mar-10	20.6	ND	810	2,612
	14-Dec-09	14.6	0.14	770	2,452
	1-Sep-09	17.3	0.7	760	2,474
2-Jun-09	17.6	0.84	820	4,866	
3-Mar-09	45.1	ND	1,265	4,556	

**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-Aug-14	2.77	<1.80	1,240	4,380
	20-May-14	3.51	2.10	1,230	4,000
	3-Mar-14	5.75	<1.66	1,220	4,140
	20-Nov-13	10.7	2.80	1,200	4,070
	21-Aug-13	5.62	3.50	1,230	4,100
	16-May-13	7.88	<1.66	1,160	3,920
	19-Feb-13	2.81	<1.72	1,250	4,480
	14-Nov-12	1.06	<1.72	1,300	4,440
	10-Aug-12	2.25	<1.72	1,450	4,900
	3-May-12	9.92	<1.72	1,330	3,920
	8-Feb-12	11.0	<2.17	1,420	4,170
	3-Nov-11	27.6	<2.17	1,420	4,730
	1-Aug-11	15.0	<2.17	1,450	4,870
	26-Apr-11	4.17	<2.17	1,480	4,690
	25-Jan-11	2.02	<2.17	1,460	4,960
	20-Sep-10	21.3	<10.0	1,490	4,840
	29-Jun-10	1.5	<1.0	1,400	4,630
	24-Mar-10	6.1	ND	1,530	4,400
	14-Dec-09	14.1	ND	1,550	4,560
	1-Sep-09	18.9	ND	1,630	4,734
2-Jun-09	2.9	ND	1,590	1,782	
3-Mar-09	2.65	ND	1,510	4,664	
74-04	21-Aug-14	16.3	<1.80	556	2,060
	21-May-14	20.1	<1.80	537	1,880
	3-Mar-14	18.1	<1.66	565	2,080
	19-Nov-13	17.3	2.10	570	1,910
	22-Aug-13	16.4	3.50	560	2,160
	16-May-13	17.6	<1.66	502	1,890
	20-Feb-13	18.5	<1.72	499	1,960
	14-Nov-12	19.3	<1.72	499	2,140
	10-Aug-12	18.8	<1.72	477	1,920
	3-May-12	33.6	<1.72	436	1,800
	8-Feb-12	31.6	<2.17	473	2,020
	3-Nov-11	13.4	<2.17	439	1,080
	29-Jul-11	15.3	<2.17	438	1,580
	26-Apr-11	12.8	<2.17	451	1,820
	25-Jan-11	6.50	<2.17	434	1,810
	20-Sep-10	10.6	<10.0	441	1,640
	29-Jun-10	15	<1.0	500	1,840
	24-Mar-10	11.4	0.28	570	1,792
	14-Dec-09	11.5	ND	560	1,738
	1-Sep-09	19.3	ND	550	1,792
2-Jun-09	7.2	ND	570	2,024	
3-Mar-09	20.3	ND	530	1,884	

**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-Aug-14	18.8	<1.8	464	1,880
	21-May-14	19.8	<1.80	452	1,860
	25-Feb-14	18.3	<1.66	506	1,960
	19-Nov-13	18.4	<1.66	493	1,840
	22-Aug-13	18.8	4.2	497	1,980
	16-May-13	17.5	<1.66	469	1,860
	20-Feb-13	17.8	<1.72	470	1,870
	14-Nov-12	17.0	<1.72	219	1,900
	10-Aug-12	18.0	<1.72	463	1,800
	3-May-12	18.0	<1.72	421	1,900
	8-Feb-12	17.4	<2.17	442	1,960
	3-Nov-11	17.9	<2.17	442	960
	29-Jul-11	23.3	<2.17	449	2,000
	26-Apr-11	21.5	<2.17	446	1,900
	25-Jan-11	16.5	<2.17	446	1,940
	17-Sep-10	17.6	<10.0	439	1,880
	29-Jun-10	32	<1.0	520	2,070
	24-Mar-10	23.2	ND	620	1,960
	14-Dec-09	15.9	ND	600	1,924
1-Sep-09	25.2	ND	540	1,964	
2-Jun-09	10.8	ND	560	2,068	
3-Mar-09	33.2	ND	535	2,038	
River Valley Dairy					
167-01	13-Aug-14	Not Sampled			
	23-May-14	Not Sampled			
	28-Feb-14	Not Sampled			
	10-Dec-13	Not Sampled			
	27-Aug-13	<0.164	10.5	290	1,260
	17-May-13	Not Sampled			
	20-Feb-13	Not Sampled			
	15-Nov-12	Not Sampled			
	14-Aug-12	Not Sampled			
	2-May-12	Not Sampled			
	30-Jan-12	Not Sampled			
	2-Nov-11	Not Sampled			
	25-Jul-11	Not Sampled			
	28-Apr-11	<0.500	3.92	720	2,960
	20-Jan-11	Not Sampled			
	27-Sep-10	1.55	9.94	731	2,540
	28-Jun-10	Not Sampled			
	5-Mar-10				
	15-Jan-10				
14-Sep-09					
2-Jun-09					
15-Mar-09	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	4-Sep-14	2.52	<1.80	652	3,070
	23-May-14	1.59	2.80	666	2,860
	28-Feb-14	2.03	<1.66	656	2,820
	10-Dec-13	2.35	2.80	643	2,720
	26-Aug-13	4.84	10.5	907	3,610
	17-May-13	4.83	<1.66	794	3,420
	20-Feb-13	1.10	<1.72	845	3,360
	15-Nov-12	4.02	<1.72	778	3,440
	14-Aug-12	1.78	4.20	888	3,260
	2-May-12	2.55	1.82	781	3,180
	30-Jan-12	2.54	3.50	755	2,940
	2-Nov-11	11.2	4.62	1,080	3,620
	25-Jul-11	2.13	3.92	943	3,330
	28-Apr-11	4.03	<2.17	1,030	3,710
	20-Jan-11	1.26	2.1	968	5,100
	22-Sep-10	1.40	3.36	1,010	3,470
	28-Jun-10	6.07	1.1	1,050	3,710
	5-Mar-10	9.3	0.8	1,040	3,605
15-Jan-10	5.3	0.5	1,090	3,590	
14-Sep-09	13.4	0.6	1,040	3,530	
2-Jun-09	13.7	0.7	980	3,505	
15-Mar-09	22.2	0.2	740	3,130	
167-02	4-Sep-14	0.928	<1.80	455	1,580
	18-Jun-14	Dry			
	28-Feb-14	Dry			
	10-Dec-13	Dry			
	23-Aug-13	Dry			
	17-May-13	Not Sampled			
	20-Feb-13	Not Sampled			
	15-Nov-12	Not Sampled			
	14-Aug-12	Not Sampled			
	30-Jan-12	Not Sampled			
	2-Nov-11	<0.500	3.64	432	650
	25-Jul-11	Dry			
	28-Apr-11	<0.500	2.94	500	1,910
	20-Jan-11	0.716	< 2.05	546	1,840
	22-Sep-10	<0.846	<10.0	610	2,100
	28-Jun-10	Not Sampled			
	5-Mar-10				
	15-Jan-10				
14-Sep-09					
2-Jun-09					
28-Apr-08	7.0	0.3	780	2,580	

**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	4-Sep-14	17.1	<1.80	534	2,220
	23-May-14	16.6	2.80	440	2,200
	28-Feb-14	15.4	<1.66	516	2,140
	10-Dec-13	17.6	<1.66	578	2,310
	26-Aug-13	19.0	2.80	587	2,440
	20-May-13	16.7	<1.66	543	2,140
	21-Feb-13	13.0	<1.72	500	1,950
	15-Nov-12	15.0	<1.72	503	2,150
	14-Aug-12	16.6	<1.72	500	2,350
	2-May-12	17.5	<1.72	499	2,220
	27-Jan-12	21.0	<2.17	572	2,250
	2-Nov-11	22.0	<2.17	564	2,150
	25-Jul-11	18.5	6.16	543	2,250
	28-Apr-11	17.1	<2.17	508	2,210
	20-Jan-11	13.2	2.24	467	1,880
	22-Sep-10	9.19	<10.0	472	2,120
	28-Jun-10	20.4	<5.0	567	2,310
	5-Mar-10	18.4	<0.3	610	2,265
	15-Jan-10	13.7	0.6	620	2,015
14-Sep-09	23.1	0.4	590	2,240	
2-Jun-09	25.0	0.5	680	2,515	
15-Mar-09	30.9	0.2	760	2,615	
167-04	4-Sep-14	25.1	<1.80	1,040	4,210
	22-May-14	26.5	18.2	1,010	3,600
	3-Mar-14	25.1	2.10	1,180	4,080
	10-Dec-13	23.8	2.10	1,190	4,070
	26-Aug-13	25.5	6.30	1,090	3,900
	17-May-13	4.40	<1.66	796	4,170
	20-Feb-13	21.9	<1.72	1,320	4,660
	15-Nov-12	7.77	<1.72	1,150	4,380
	14-Aug-12	23.2	2.10	1,110	4,540
	2-May-12	18.6	13.6	1,050	4,020
	27-Jan-12	15.6	3.50	1,500	4,840
	2-Nov-11	Not Sampled - insufficient water to sample			
	26-Jul-11	19.3	4.62	1,270	4,560
	28-Apr-11	7.95	73.1	1,610	4,960
	20-Jan-11	Not Sampled			
	28-Jun-10				
	5-Mar-10				
	15-Jan-10				
	14-Sep-09	6.7	0.4	1,630	5,240
2-Jun-09	8.5	0.4	1,525	5,045	
15-Mar-09	16.4	0.2	1,570	5,210	

**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	3-Sep-14	4.16	<1.80	709	3,240
	23-May-14	3.62	3.50	764	3,010
	3-Mar-14	2.25	<1.66	818	3,180
	10-Dec-13	1.58	3.50	886	3,290
	26-Aug-13	4.54	3.50	767	3,400
	17-May-13	23.3	<1.66	1,120	3,140
	21-Feb-13	3.73	<1.72	842	3,360
	19-Nov-12	2.31	<1.72	805	3,480
	14-Aug-12	1.48	<1.72	1,630	3,220
	2-May-12	3.50	2.24	777	3,180
	30-Jan-12	4.40	<2.17	808	3,140
	2-Nov-11	3.89	3.64	782	2,560
	26-Jul-11	4.41	3.22	792	3,070
	28-Apr-11	12.9	2.80	976	3,630
	20-Jan-11	3.53	2.52	748	2,980
	23-Sep-10	2.70	<10.0	758	2,820
	28-Jun-10	4.07	<1.0	789	2,930
	5-Mar-10	2.9	<0.3	960	2,945
15-Jan-10	1.8	<0.3	380	715	
14-Sep-09	1.9	0.4	890	2,970	
2-Jun-09	1.8	0.9	850	3,005	
15-Mar-09	4.6	0.2	910	3,230	
167-06	4-Sep-14	22.8	4.20	689	2,820
	22-May-14	22.8	4.20	726	2,660
	28-Feb-14	22.1	<1.66	707	2,620
	10-Dec-13	20.8	6.30	744	2,740
	26-Aug-13	29.0	2.10	757	2,740
	20-May-13	23.9	<1.66	704	2,620
	20-Feb-13	22.8	<1.72	725	2,660
	19-Nov-12	23.7	<1.72	718	2,980
	14-Aug-12	25.1	<1.72	677	2,910
	2-May-12	27.2	<1.72	688	2,480
	30-Jan-12	29.1	<2.17	754	2,880
	2-Nov-11	35.7	<2.17	716	3,390
	25-Jul-11	35.0	5.32	702	2,640
	28-Apr-11	35.4	<2.17	676	2,790
	20-Jan-11	29.6	2.38	634	2,560
	22-Sep-10	19.8	<10.0	655	2,630
	28-Jun-10	34.8	2.35	687	2,700
	5-Mar-10	30.9	<0.3	730	2,730
15-Jan-10	26.2	0.4	750	2,755	
14-Sep-09	40.4	<0.3	700	2,680	
2-Jun-09	31.5	0.4	790	2,715	
15-Mar-09	36.2	0.7	730	2,715	

**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	4-Sep-14	<0.126	<1.80	609	5,680
	23-May-14	<0.187	<1.80	209	1,490
	28-Feb-14	<0.213	2.10	229	1,540
	10-Dec-13	0.960	6.30	233	1,770
	26-Aug-13	2.00	4.20	681	4,770
	17-May-13	<0.0420	<1.66	319	1,840
	20-Feb-13	<0.246	<1.72	446	3,640
	15-Nov-12	<0.0595	<1.72	498	3,280
	14-Aug-12	<0.114	4.06	1,160	6,090
	2-May-12	0.0285	<1.72	367	1,890
	30-Jan-12	<0.500	<2.17	411	1,850
	2-Nov-11	<0.500	<2.17	366	2,460
	25-Jul-11	<1.00	3.50	446	4,400
	28-Apr-11	<0.500	<2.17	292	1,750
	20-Jan-11	0.448	2.10	239	1,280
	22-Sep-10	0.0400	2.10	268	1,590
	28-Jun-10	<0.5	<2.0	287	1,600
	5-Mar-10	0.16	<0.3	370	1,650
15-Jan-10	<0.03	<0.3	250	2,065	
14-Sep-09	0.19	<0.3	390	1,700	
2-Jun-09	0.11	0.4	740	2,575	
15-Mar-09	0.11	0.2	1,090	3,165	
167-08	4-Sep-14	<0.126	<1.80	726	2,840
	27-May-14	<0.187	2.10	777	2,920
	4-Mar-14	1.02	<1.66	884	3,090
	10-Dec-13	Not Sampled			
	27-Aug-13	Not Sampled			
	21-May-13	1.13	<1.66	723	2,820
	25-Feb-13	0.895	<1.72	827	2,640
	15-Nov-12	Well Damaged - Not Sampled			
	14-Aug-12	0.192	<1.72	788	2,860
	2-May-12	0.399	<1.72	744	2,580
	30-Jan-12	<0.500	<2.17	805	2,440
	2-Nov-11	1.93	<2.17	759	2,520
	26-Jul-11	3.77	4.20	779	3,030
	28-Apr-11	3.74	<2.17	793	2,740
	20-Jan-11	<0.239	2.10	764	2,640
	23-Sep-10	0.250	<10.0	756	2,720
	28-Jun-10	5.51	<0.5	804	2,990
	5-Mar-10	5.5	<0.3	830	2,750
15-Jan-10	0.84	<0.3	720	2,530	
14-Sep-09	2.9	0.3	640	2,380	
2-Jun-09	2.1	0.6	750	2,785	
15-Mar-09	3.2	0.2	740	2,710	

**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	3-Sep-14	10.5	<1.80	680	2,980
	23-May-14	10.1	3.50	721	2,800
	3-Mar-14	6.49	<1.66	756	2,840
	10-Dec-13	3.82	4.90	777	2,980
	27-Aug-13	6.24	5.60	772	3,320
	17-May-13	10.7	<1.66	726	3,050
	21-Feb-13	4.51	<1.72	959	3,580
	19-Nov-12	12.8	<1.72	979	3,560
	14-Aug-12	8.47	2.10	916	3,760
	2-May-12	14.5	<1.72	1,070	4,000
	30-Jan-12	13.2	2.80	1,010	3,590
	3-Nov-11	7.53	8.40	988	3,590
	26-Jul-11	<1.00	3.78	736	2,300
	28-Apr-11	<0.500	2.38	467	2,140
	20-Jan-11	0.0147	<2.05	429	2,160
	24-Sep-10	0.0300	<10.0	432	1,500
	28-Jun-10	<0.5	<1.0	491	2,160
	5-Mar-10	0.05	<0.3	580	2,150
15-Jan-10	<0.03	<0.3	500	2,250	
14-Sep-09	<0.03	<0.3	530	2,055	
2-Jun-09	0.04	0.7	540	2,205	
15-Mar-09	0.07	0.2	630	2,400	
Big Sky Dairy					
833-01	25-Aug-14				Dry
	27-May-14				Dry
	4-Mar-14				Dry
	6-Nov-13				Dry
	29-Aug-13				Dry
	21-May-13				Dry
	26-Feb-13				Dry
	19-Nov-12				Dry
	15-Aug-12				Dry
	7-May-12				Dry
	15-Feb-12				Dry
	1-Nov-11				Dry
	21-Jul-11				Dry
	29-Apr-11	Not Sampled - insufficient water to sample			
	24-Jan-11	33.6	4.20	997	3,100
	23-Sep-10	29.1	<10.0	881	3,300
	28-Jun-10	1.7	1.8	180	790
	23-Mar-10	28.3	0.7	1,025	2,640
14-Dec-09	21.8	ND	975	2,800	
31-Aug-09	15.3	ND	999	2,894	
1-Jun-09	8.6	ND	1,030	2,382	
2-Mar-09	37.1	ND	1,070	3,750	

**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	25-Aug-14	24.8	<1.80	528	2,090
	27-May-14	27.0	2.10	563	2,140
	5-Mar-14	79.8	<1.66	1,120	3,920
	20-Nov-13	65.4	2.10	884	3,060
	5-Sep-13	85.8	69.3	1,080	4,270
	21-May-13	69.2	<1.66	858	3,140
	25-Feb-13	97.0	<1.72	1,110	3,820
	19-Nov-12	84.3	2.10	1,030	4,020
	15-Aug-12	37.5	2.94	535	2,440
	7-May-12	43.3	65.1	635	2,420
	15-Feb-12	87.2	4.34	889	3,660
	1-Nov-11	82.3	2.38	885	4,010
	21-Jul-11	91.6	3.08	880	3,510
	29-Apr-11	81.6	6.02	840	3,500
	24-Jan-11	69.3	2.66	789	3,090
	23-Sep-10	52.9	<10.0	833	3,650
	28-Jun-10	29	<5.0	560	2,200
	23-Mar-10	15.9	ND	660	2,066
	14-Dec-09	11.5	0.28	650	2,018
	31-Aug-09	12.4	ND	660	2,170
1-Jun-09	<0.5	ND	650	3,358	
2-Mar-09	3.54	13.44	585	1,978	
833-03	25-Aug-14	Dry			
	27-May-14	Dry			
	3-Mar-14	Dry			
	6-Nov-13	Dry			
	29-Aug-13	Dry			
	21-May-13	Dry			
	25-Feb-13	Dry			
	19-Nov-12	Dry			
	15-Aug-12	Dry			
	3-May-12	Dry			
	15-Feb-12	Dry			
	1-Nov-11	Dry			
	21-Jul-11	Dry			
	4-May-11	24.8	4.20	1,660	4,120
	24-Jan-11	30.4	2.66	1,650	4,090
	23-Sep-10	18.1	<10.0	1,410	3,880
	28-Jun-10	5.0	5.5	650	1,870
	23-Mar-10	14.0	ND	1,750	4,044
	14-Dec-09	11.8	0.28	1,839	4,280
	31-Aug-09	8.9	ND	1,760	4,216
1-Jun-09	90.4	ND	1,620	3,060	
2-Mar-09	21.2	ND	1,580	3,970	

**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	22-Aug-14	10.4	<1.80	677	2,230
	29-May-14	23.5	5.60	780	2,670
	4-Mar-14	50.0	<1.66	1,010	3,530
	20-Nov-13	12.8	2.10	711	2,280
	30-Aug-13	37.9	2.80	868	3,260
	21-May-13	41.9	<1.66	875	3,180
	25-Feb-13	2.45	<1.72	1,050	3,600
	19-Nov-12	50.0	<1.72	1,010	3,770
	15-Aug-12	32.7	2.66	783	2,680
	3-May-12	24.1	<1.72	623	2,920
	15-Feb-12	49.9	<2.17	942	3,320
	1-Nov-11	43.4	<2.17	867	3,040
	21-Jul-11	45.3	2.52	883	3,410
	29-Apr-11	46.2	<2.17	902	3,280
	24-Jan-11	40.9	<2.05	755	3,040
	24-Sep-10	<50.0	<10.0	915	3,480
	28-Jun-10	18	<2.0	500	1,830
	23-Mar-10	11.3	ND	560	1,648
	14-Dec-09	11.2	0.42	570	1,750
31-Aug-09	16.1	ND	630	1,986	
1-Jun-09	3.03	ND	580	1,968	
2-Mar-09	14.6	ND	600	1,884	
833-05	21-Aug-14	21.0	<1.80	752	2,320
	29-May-14	15.6	4.20	1,070	3,130
	4-Mar-14	18.5	<1.66	1,170	3,170
	25-Nov-13	17.8	2.80	1,060	2,900
	29-Aug-13	20.9	20.3	911	2,660
	21-May-13	14.7	<1.66	1,070	2,920
	26-Feb-13	16.8	<1.72	1,270	3,140
	20-Nov-12	15.0	2.10	1,070	3,100
	15-Aug-12	13.9	<1.72	1,100	3,250
	3-May-12	12.8	<1.72	1,030	2,790
	15-Feb-12	14.9	<2.17	1,230	3,100
	1-Nov-11	12.2	2.24	1,150	2,580
	21-Jul-11	12.0	2.66	1,210	3,180
	29-Apr-11	17.6	<2.17	1,330	3,300
	24-Jan-11	23.2	2.66	1,340	3,430
	24-Sep-10	28.9	<10.0	1,330	3,800
	28-Jun-10	12	<2.0	1,200	3,090
	23-Mar-10	12.2	ND	1,240	2,942
	14-Dec-10	6.7	0.56	1,280	3,096
31-Aug-09	9.0	ND	1,220	3,152	
1-Jun-09	3.43	ND	1,230	3,026	
2-Mar-09	11	ND	1,255	3,134	

**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	21-Aug-14	17.4	<1.80	663	2,300
	29-May-14	26.5	3.50	760	2,460
	4-Mar-14	41.9	<1.66	847	2,800
	21-Nov-13	27.4	3.50	771	2,490
	30-Aug-13	25.3	2.80	656	2,310
	20-May-13	25.9	<1.66	816	2,640
	25-Feb-13	21.6	<1.72	924	2,750
	19-Nov-12	24.2	<1.72	920	2,840
	15-Aug-12	23.4	<1.72	845	2,670
	3-May-12	20.7	<1.72	702	2,560
	14-Feb-12	26.4	<2.17	727	2,480
	2-Nov-11	28.8	3.08	688	1,900
	21-Jul-11	70.1	7.70	682	2,650
	4-May-11	36.4	7.70	717	2,440
	20-Jan-11	61.0	2.80	738	2,360
	23-Sep-10	64.3	<10.0	761	2,680
	28-Jun-10	23	<5.0	630	2,310
	23-Mar-10	24.8	2.38	700	2,184
	14-Dec-09	22.7	1.68	820	2,344
31-Aug-09	25.1	1.96	790	2,708	
1-Jun-09	106	ND	680	2,280	
2-Mar-09	66.4	ND	610	2,160	
833-07	21-Aug-14	83.6	5.60	1,360	4,920
	29-May-14	87.0	4.90	1,380	4,760
	4-Mar-14	73.0	<1.66	1,390	4,420
	21-Nov-13	78.3	2.80	1,330	4,380
	29-Aug-13	78.4	4.90	1,330	4,420
	21-May-13	88.7	<1.66	1,400	4,730
	26-Feb-13	95.5	<1.72	1,470	4,500
	20-Nov-12	95.1	<1.72	1,130	4,290
	15-Aug-12	99.8	2.52	1,540	5,110
	7-May-12	95.6	7.56	1,460	4,880
	15-Feb-12	90.3	<2.17	1,340	4,660
	1-Nov-11	94.2	<2.17	1,090	3,840
	21-Jul-11	105	<2.17	115	4,090
	29-Apr-11	100	<2.17	1,220	4,380
	24-Jan-11	100	2.10	1,140	4,350
	24-Sep-10	129	<10.0	933	3,800
	28-Jun-10	69	<5.0	1,300	4,160
	23-Mar-10	106	ND	1,320	3,884
	14-Dec-09	101	0.42	1,260	3,988
	31-Aug-09	74	8.68	1,180	3,978
1-Jun-09	12.4	8.68	1,180	3,964	
2-Mar-09	33.2	ND	1,380	3,866	

**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	22-Aug-14	90.2	<1.80	672	2,900
	27-May-14	91.5	2.10	772	3,030
	4-Mar-14	100	<1.66	807	3,220
	21-Nov-13	86.3	<1.66	827	3,000
	29-Aug-13	79.6	4.90	971	3,300
	21-May-13	80.2	<1.66	953	3,320
	26-Feb-13	83.1	<1.72	877	2,940
	20-Nov-12	60.8	<1.72	1,070	3,580
	15-Aug-12	57.8	2.52	987	3,480
	3-May-12	61.4	<1.72	927	3,040
	15-Feb-12	77.6	<2.17	1,020	3,200
	1-Nov-11	69.8	4.20	966	3,080
	21-Jul-11	68.8	<2.17	963	3,240
	29-Apr-11	75.9	<2.17	950	3,330
	24-Jan-11	93.4	2.10	930	3,190
	23-Sep-10	91.8	<10.0	985	3,600
	28-Jun-10	35	<5.0	630	2,290
	23-Mar-10	33	ND	700	2,108
	14-Dec-09	31	ND	950	2,710
	31-Aug-09	63	ND	1,020	3,576
1-Jun-09	41.4	ND	1,000	3,492	
2-Mar-09	121	ND	700	2,038	
833-09	22-Aug-14	64.9	<1.80	759	3,240
	27-May-14	85.0	6.30	868	3,790
	5-Mar-14	125	<1.66	998	4,430
	20-Nov-13	137	<1.66	1,060	4,640
	29-Aug-13	82.2	3.50	786	3,860
	22-May-13	78.1	<1.66	786	3,630
	28-Feb-13	101	<1.72	876	4,060
	20-Nov-12	89.6	<1.72	731	3,760
	15-Aug-12	99.3	<1.72	875	3,780
	7-May-12	80.4	<1.72	745	3,830
	15-Feb-12	94.8	<2.17	725	3,580
	1-Nov-11	93.0	<2.17	779	3,880
	21-Jul-11	135	<2.17	1,070	4,550
	4-May-11	147	<2.17	1,420	5,540
	25-Jan-11	134	2.80	1,420	4,850
	24-Sep-10	58.2	<10.0	1,050	4,110
	28-Jun-10	50	<5.0	1,200	4,380
	23-Mar-10	16.3	0.56	1,100	3,624
	14-Dec-09	2.7	0.28	960	3,184
	31-Aug-09	6.6	ND	870	3,178
1-Jun-09	18.10	1.12	880	3,164	
2-Mar-09	7.07	ND	825	3,202	

**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	21-Aug-14	5.66	<1.80	671	2,780
	29-May-14	3.20	2.10	667	2,670
	5-Mar-14	2.47	<1.66	679	2,660
	20-Nov-13	2.93	<1.66	695	2,620
	29-Aug-13	3.77	4.20	642	2,800
	22-May-13	3.96	<1.66	648	2,580
	28-Feb-13	4.19	<1.72	689	2,640
	20-Nov-12	4.25	<1.72	608	2,540
	15-Aug-12	4.93	2.52	585	2,530
	7-May-12	3.95	<1.72	581	2,350
	15-Feb-12	3.18	<2.17	582	2,440
	1-Nov-11	3.69	<2.17	573	2,590
	21-Jul-11	4.63	3.78	597	2,480
	4-May-11	5.19	<2.17	714	2,670
	25-Jan-11	8.46	2.10	649	2,730
	24-Sep-10	<10.0	<10.0	654	2,250
	28-Jun-10	3.6	<1.0	750	2,790
	23-Mar-10	6.8	ND	1,220	3,868
	14-Dec-09	3.7	0.14	790	2,576
31-Aug-09	4.7	ND	750	2,548	
1-Jun-09	7.1	ND	650	2,458	
2-Mar-09	2.43	ND	855	2,954	
Sunset/Desert Land Dairy					
257-01	25-Aug-14	49.4	<1.80	694	3,570
	30-May-14	47.9	3.50	739	3,320
	6-Mar-14	44.3	<1.66	707	3,130
	25-Nov-13	42.4	2.80	726	3,090
	28-Aug-13	44.4	5.60	719	3,160
	22-May-13	33.6	<1.66	660	3,100
	21-Feb-13	28.3	<1.72	665	3,200
	21-Nov-12	24.7	2.80	625	3,130
	16-Aug-12	23.2	<1.72	617	3,060
	26-Apr-12	23.7	22.7	680	2,920
	9-Feb-12	19.4	<2.17	603	2,940
	1-Nov-11	28.4	<2.17	619	2,730
	22-Jul-11	44.8	<2.17	673	3,270
	26-Apr-11	103	3.78	870	4,440
	19-Jan-11	59.3	3.08	743	3,420
	24-Sep-10	58.0	<10.0	685	3,120
	28-Jun-10	100	<1.0	820	3,800
	24-Mar-10	187	ND	1,100	4,342
	14-Dec-09	71	0.14	910	3,860
31-Aug-09	49	ND	880	3,706	
2-Jun-09	64	ND	910	3,822	
3-Mar-09	89	ND	1,135	4,652	

**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	25-Aug-14	6.53	<1.80	585	2,550
	30-May-14	11.5	2.10	531	2,100
	6-Mar-14	10.4	<1.66	530	2,120
	25-Nov-13	11.1	2.80	529	2,070
	28-Aug-13	7.59	8.40	511	2,200
	22-May-13	3.39	<1.66	469	1,880
	21-Feb-13	10.3	<1.72	470	1,980
	21-Nov-12	10.0	2.80	468	2,060
	16-Aug-12	14.8	<1.72	484	2,170
	26-Apr-12	23.2	8.40	505	1,840
	9-Feb-12	11.1	<2.17	443	1,840
	1-Nov-11	19.3	2.24	442	3,150
	22-Jul-11	28.7	<2.17	501	2,160
	26-Apr-11	24.9	2.80	433	2,000
	19-Jan-11	13.3	2.52	455	1,500
	24-Sep-10	21.0	<10.0	445	1,590
	29-Jun-10	24	<1.0	560	2,180
	24-Mar-10	22.3	ND	570	1,840
	14-Dec-09	19.3	0.14	480	1,916
31-Aug-09	14.2	ND	410	1,518	
2-Jun-09	1.86	ND	500	1,690	
3-Mar-09	30.4	ND	495	1,632	
257-03	25-Aug-14	7.64	<1.80	413	1,840
	30-May-14	Dry			
	6-Mar-14	6.06	<1.66	546	2,380
	25-Nov-13	2.03	4.90	494	1,900
	28-Aug-13	4.55	4.90	569	2,360
	22-May-13	7.23	<1.66	658	2,640
	21-Feb-13	2.65	<1.72	520	2,060
	21-Nov-12	3.11	2.80	490	2,250
	16-Aug-12	17.6	2.10	509	2,420
	26-Apr-12	6.60	4.20	601	2,330
	14-Feb-12	11.2	<2.17	636	2,620
	1-Nov-11	7.37	2.80	537	2,210
	22-Jul-11	12.9	2.80	576	2,100
	26-Apr-11	12.5	5.88	525	2,400
	19-Jan-11	2.67	2.24	377	1,600
	24-Sep-10	8.00	<10.0	400	1,670
	29-Jun-10	17	1.1	660	2,570
	24-Mar-10	10.1	1.12	640	2,342
	14-Dec-09	5.9	0.56	760	2,638
	31-Aug-09	10.7	0.84	610	2,260
2-Jun-09	5.99	ND	570	2,284	
3-Mar-09	334*	ND	690	2,538	

**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	25-Aug-14	3.74	6.30	562	2,440
	30-May-14	4.82	2.10	658	2,640
	6-Mar-14	4.22	<1.66	644	2,780
	25-Nov-13	3.30	6.30	580	2,220
	28-Aug-13	2.81	7.70	624	2,460
	22-May-13	2.39	<1.66	673	2,820
	21-Feb-13	9.35	<1.72	816	2,980
	21-Nov-12	13.0	3.50	722	3,020
	16-Aug-12	3.67	6.30	667	2,620
	26-Apr-12	6.83	2.80	575	2,660
	14-Feb-12	9.68	<2.17	565	2,180
	1-Nov-11	16.7	2.94	658	2,850
	22-Jul-11	4.66	3.64	440	1,860
	26-Apr-11	<0.500	4.34	624	2,580
	19-Jan-11	1.21	4.20	480	1,860
	24-Sep-10	11.0	<10.0	576	2,480
	30-Jun-10	5.4	<5.0	530	1,980
	23-Mar-10	5.0	ND	340	982
	14-Dec-09	45	26.32	220	520
31-Aug-09	0.3	8.7	570	1,704	
2-Jun-09	1.65	7.0	660	1,936	
3-Mar-09	3.98	1.12	555	1,908	
McAnally Enterprises					
MW-4	13-Mar-09	3.5	<0.5	2,110	5,686
Southern Area					
Del Oro Dairy					
692-01	27-Aug-14	95.6	9.10	643	2,910
	2-Jun-14	98.2	4.20	612	2,660
	13-Mar-14	97.8	<1.66	647	2,820
	4-Dec-13	2.57	7.00	706	2,840
	4-Sep-13	Not Sampled			
	28-May-13	82.4	<1.66	612	2,660
	27-Feb-13	87.9	<1.72	654	2,690
	30-Nov-12	117	<1.72	821	3,490
	20-Aug-12	Pump was not operational			
	8-May-12	163	<1.72	1,060	4,820
	17-Feb-12	166	7.28	1,090	4,000
	8-Nov-11	168	6.44	1,180	4,690
	29-Jul-11	176	<2.17	1,210	4,840
	22-Apr-11	140		998	3,880
	19-Jan-11	213	2.10	1,070	4,320
	1-Oct-10	222	<10.0	1,060	4,640
	30-Jun-10	230	<5.0	1,100	4,080
	30-Mar-10	117.5	3	1,080	3,991
	8-Dec-09	107	1	1,060	4,897
12-Aug-09	127	3	1,120	4,955	
4-May-09	120	3	1,160	4,295	

**TABLE 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	27-Aug-14	132	2.80	909	3,510
	30-May-14	128	4.20	906	3,370
	7-Mar-14	129	<1.66	912	3,420
	3-Dec-13	108	2.80	906	3,520
	4-Sep-13	120	2.80	925	3,600
	23-May-13	47.8	<1.66	742	2,720
	27-Feb-13	3.37	<1.72	396	1,520
	30-Nov-12	<0.0290	<1.72	358	1,450
	20-Aug-12	1.72	<1.72	371	1,460
	8-May-12	1.75	<1.72	339	1,350
	17-Feb-12	2.55	<2.17	410	1,490
	31-Oct-11	4.69	<2.17	451	1,720
	29-Jul-11	24.1	<2.17	504	2,280
	27-Apr-11	92.3	<10.0	921	3,080
	26-Jan-11	47.2	3.64	706	2,490
	1-Oct-10	Not Sampled			
	30-Jun-10	140	<5.0	1,100	3,520
	30-Mar-10	107.5	1	1,320	3,861
	8-Dec-09	96	1	1,200	4,073
12-Aug-09	66	3	1,140	4,317	
4-May-09	52	1	1,100	3,337	
692-03	30-Mar-10	Plugged and Abandoned			
	4-May-09				
692-04	28-Aug-14	32.5	<1.80	508	2,060
	30-May-14	38.7	4.20	481	2,010
	7-Mar-14	44.4	<1.66	581	2,290
	3-Dec-13	43.5	2.80	646	2,490
	4-Sep-13	Not 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	27-Aug-14	5.78	<1.80	424	1,340
	2-Jun-14	6.50	3.50	427	1,460
	14-Mar-14	1.67	<1.66	452	1,440
	4-Dec-13	4.05	2.80	437	1,360
	4-Sep-13	2.12	4.20	446	1,480
	28-May-13	1.90	<1.66	417	1,280
	27-Feb-13	2.16	<1.72	410	1,340
	29-Nov-12	2.28	<1.72	397	1,370
	16-Aug-12	2.73	17.6	455	1,520
	7-May-12	1.92	3.08	420	1,570
	17-Feb-12	2.52	<2.17	423	1,310
	8-Nov-11	2.30	2.94	383	1,230
	1-Aug-11	<1.00	3.50	420	1,710
	26-Apr-11	<2.50	<10.0	401	1,710
	19-Jan-11	4.12	2.10	443	1,280
	1-Oct-10	3.10	<10.0	420	1,430
	30-Jun-10	2.1	<1.0	500	1,490
	30-Mar-10	1.5	1	480	1,501
8-Dec-09	1.4	1	540	1,538	
12-Aug-09	0.8	1	500	1,602	
4-May-09	1.0	1	500	1,477	
692-06	27-Aug-14	3.77	<1.80	434	1,420
	2-Jun-14	3.90	3.50	453	1,500
	7-Mar-14	3.03	<1.66	429	1,400
	3-Dec-13	3.70	2.10	470	1,470
	4-Sep-13	3.19	2.10	423	1,540
	23-May-13	2.71	<1.66	415	1,370
	27-Feb-13	2.81	<1.72	412	1,390
	4-Dec-12	2.19	<1.72	395	1,380
	16-Aug-12	3.24	3.36	418	1,400
	8-May-12	2.62	<1.72	397	1,620
	17-Feb-12	9.39	<2.17	459	1,200
	8-Nov-11	6.46	<2.17	425	1,450
	1-Aug-11	6.07	2.80	409	1,500
	26-Apr-11	4.50	<10.0	422	1,590
	19-Jan-11	4.95	2.10	431	1,360
	1-Oct-10	11.0	<10.0	373	1,490
	30-Jun-10	7.4	<1.0	440	1,470
	30-Mar-10	3.9	1	460	1,532
8-Dec-09	2.3	1	540	1,609	
12-Aug-09	2.8	1	440	1,555	
4-May-09	2.9	1	500	1,552	

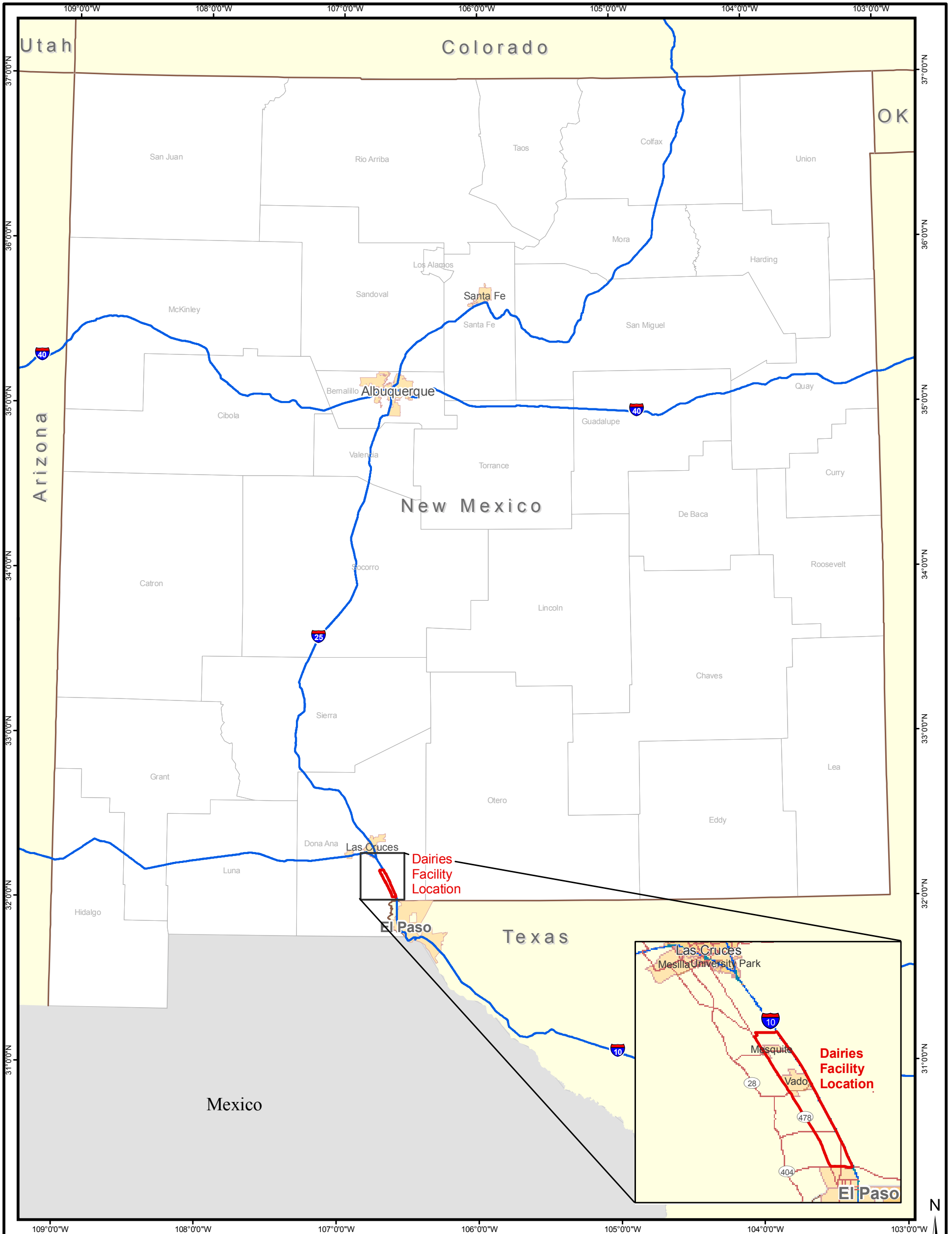
**TABLE 4. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

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

**TABLE 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	28-Aug-14	4.36	<1.80	418	1,450
	2-Jun-14	6.81	<1.80	459	1,300
	14-Mar-14	6.08	<1.66	453	1,460
	4-Dec-13	3.43	2.10	465	1,440
	4-Sep-13	8.52	3.50	452	1,460
	28-May-13	8.92	<1.66	457	1,410
	27-Feb-13	9.50	<1.72	465	1,440
	29-Nov-12	7.91	13.3	425	1,410
	20-Aug-12	7.71	<1.72	400	1,480
	7-May-12	7.80	<1.72	391	1,470
	17-Feb-12	6.89	<2.17	457	1,450
	8-Nov-11	10.6	<2.17	455	1,400
	1-Aug-11	12.6	<2.17	407	1,300
	26-Apr-11	10.8	<10.0	420	1,140
	18-Jan-11	12.0	<2.05	460	1,160
	1-Oct-10	15.0	<10.0	387	1,480
	30-Jun-10	22	<5.0	480	1,500
30-Mar-10	11	1	520	1,606	
8-Dec-09	10	1	460	1,536	
12-Aug-09	6	1	460	1,675	
4-May-09	6	1	480	1,545	
NMWQCC Standard		10	NA	250	1,000
<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

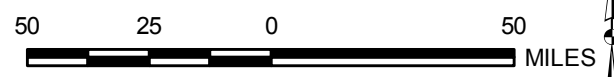


LEGEND:


 Facility Boundary

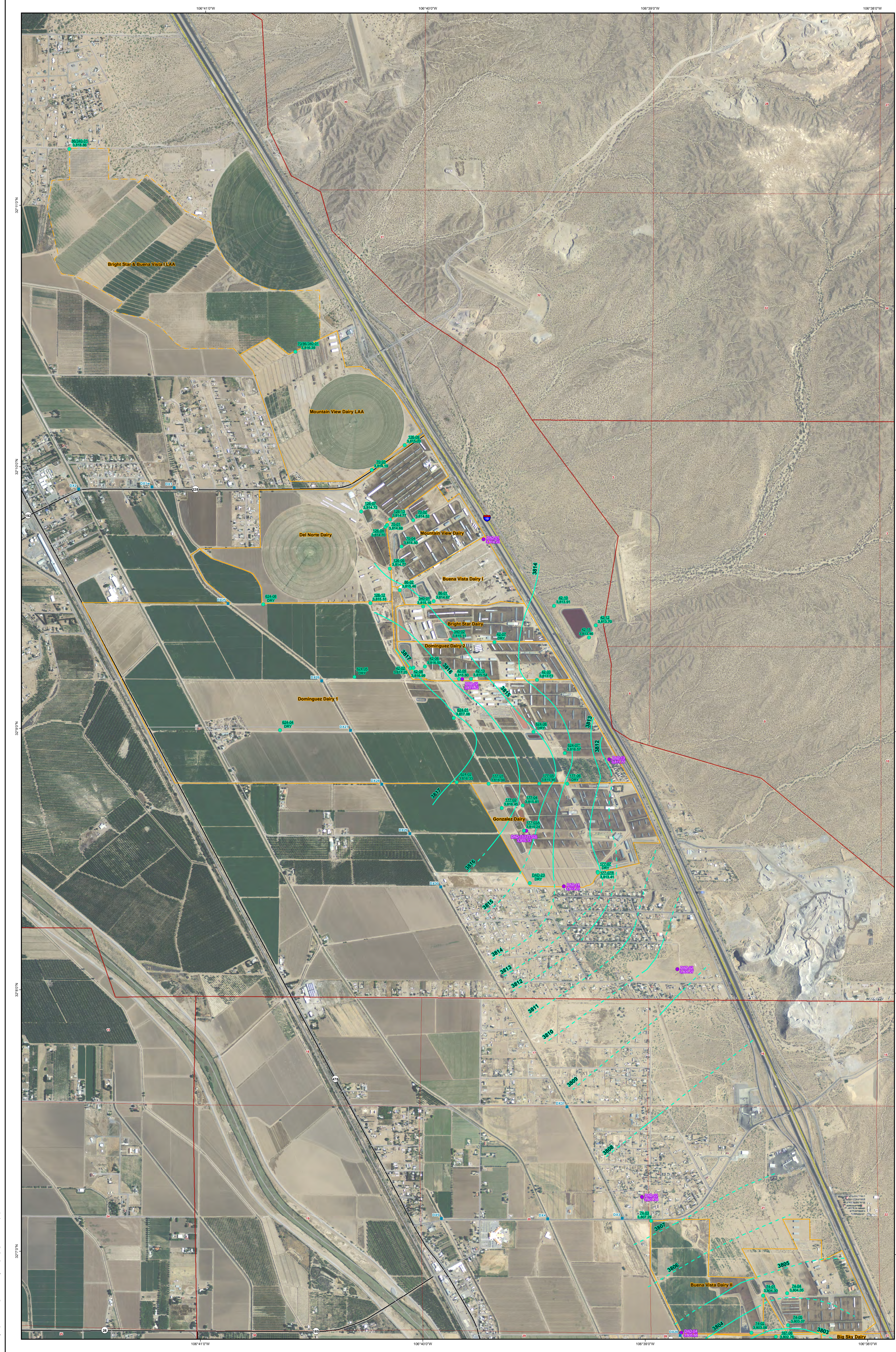
REFERENCES

Base Data: ESRI, 2008.



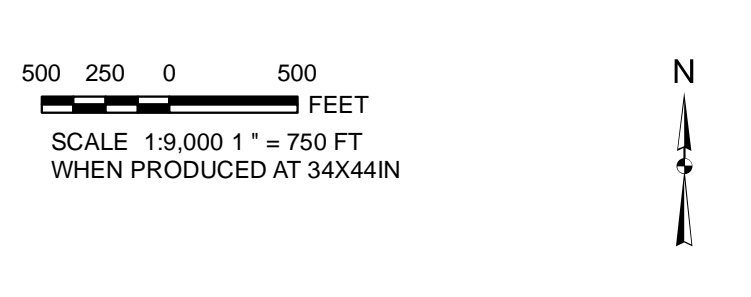
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WHEN PRODUCED AT 11X17IN

PROJECT		DOÑA ANA DAIRIES MESQUITE, NEW MEXICO	
TITLE		SITE LOCATION MAP	
	PROJECT No.	11x17_siteloc.mxd	
	DESIGN		SCALE AS SHOWN
	GIS		REV 0
	CHECK		
REVIEW			
			FIGURE 1



- LEGEND**
- Drain Crossing Location
 - Discharge Plan Well With Water Elevations (Feet MSL)
 - Abatement Plan Well With Water Elevations (Feet MSL)
 - Potentiometric Contour
 - - - Potentiometric Contour - Assumed
 - Interstate Highway
 - State Highway
 - Other Road
 - Land Owned by Dairies
 - Land Application on Non-Dairy Property
 - Public Land Survey System
- Note:
 * = Well not used in contouring

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



PROJECT: DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO

DATE: POTENTIOMETRIC SURFACE MAP,
 AUGUST 2014, NORTHERN PORTION

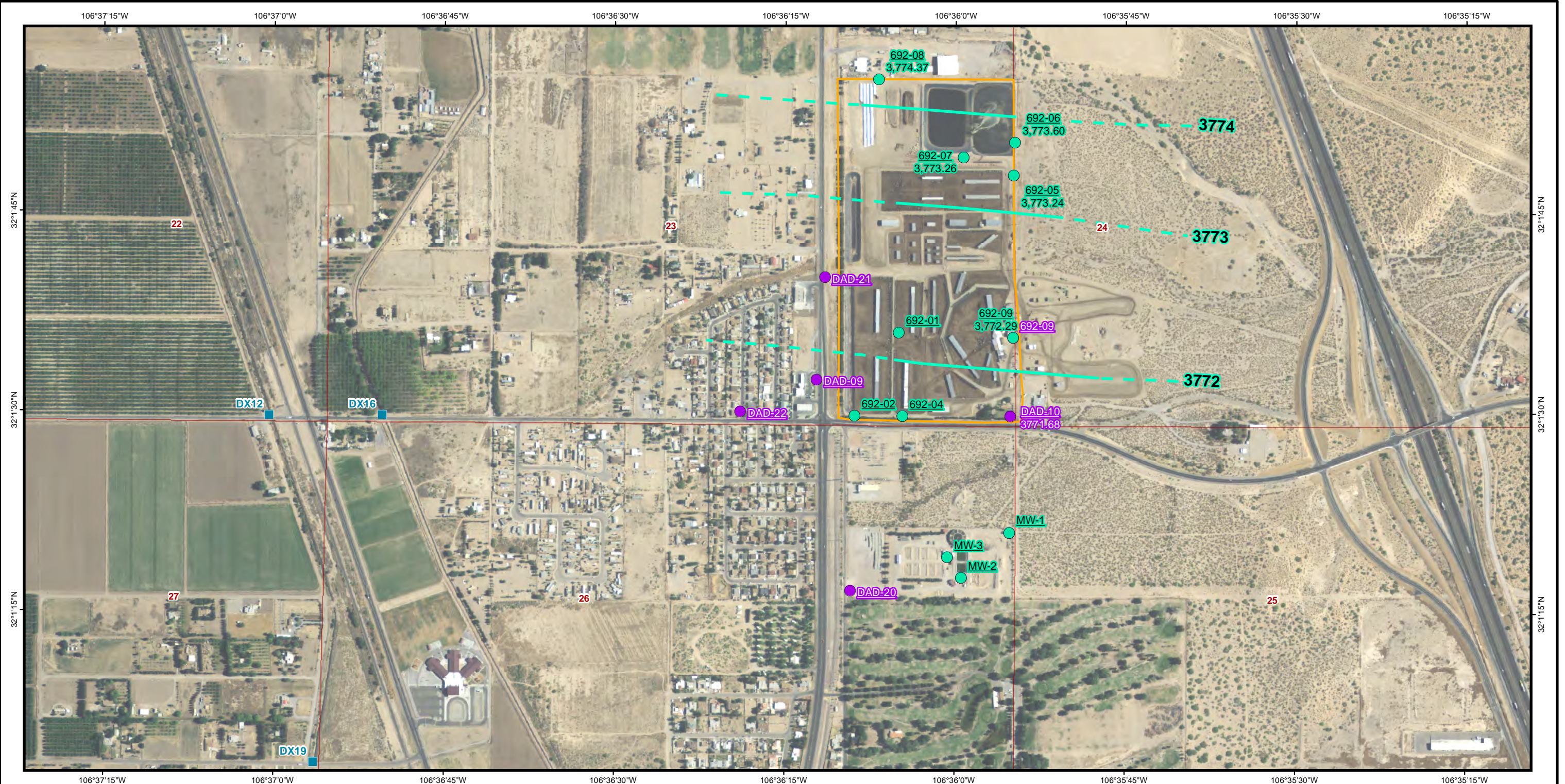
PROJECT NO.	DATE	BY	CHECKED

EA

FIGURE 2

2014-10-20 10:45:00 AM C:\Users\jgarcia\Documents\2014-10-20 10:45:00 AM\2014-10-20 10:45:00 AM.dwg

2014-10-27 P:\gis\Projects\doña ana\Dallas_GIS\MXDs\201408\Fig 4 SouthRegionAq_Pot_201408.mxd EA-Dallas mullen



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

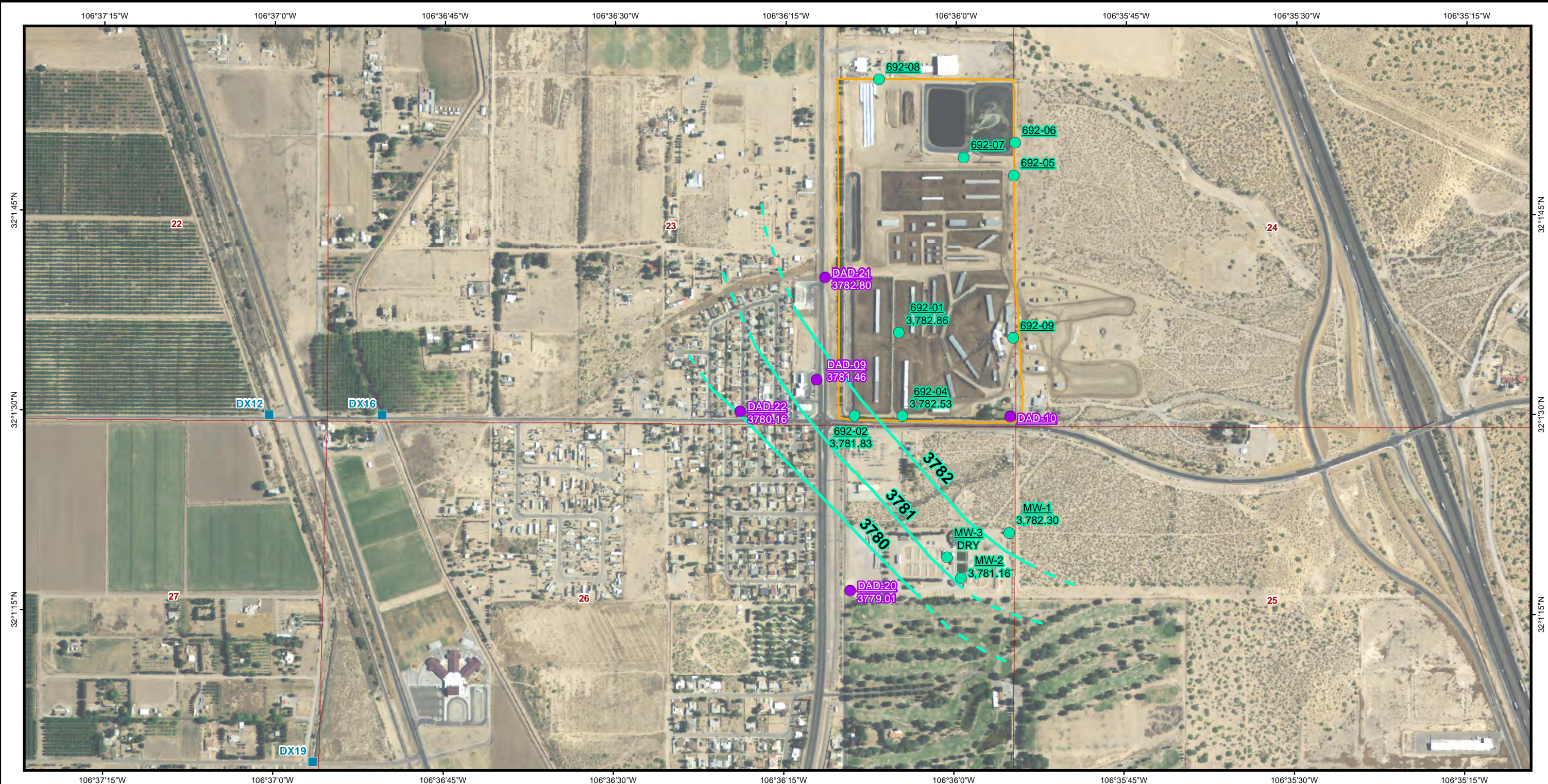
400 200 0 400
 FEET
 SCALE 1:9,000 1" = 750 FT
 WHEN PRODUCED AT 11X17IN



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

DOÑA ANA DAIRIES MESQUITE, NEW MEXICO			
POTENTIOMETRIC SURFACE MAP, AUGUST 2014, SOUTHERN PORTION REGIONAL AQUIFER			
	PROJECT No. 1464103		Fig 4 SouthRegionAq_Pot.mxd
	DESIGN	NA	SCALE AS SHOWN
	GIS	RMM	REV 0
	CHECK		
	REVIEW		
			FIGURE 4

2014-10-27 P:\gis\Projects\doña ana\Dallas_GIS\MapDocs\201408\Fig 5 SouthPerchAq_Pot_201408.mxd EA-Dallas rmullen



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

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



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

PROJECT			
DOÑA ANA DAIRIES MESQUITE, NEW MEXICO			
TITLE			
POTENTIOMETRIC SURFACE MAP, AUGUST 2014, SOUTHERN PORTION PERCHED AQUIFER			
	PROJECT No. 1464103		Fig 5 SouthPerchAq_Pot.mxd
	DESIGN	NA	SCALE AS SHOWN
	GIS	RMM	REV 0
	CHECK		
REVIEW			
			FIGURE 5

106°40'0"W 106°39'0"W

32°10'0"N

32°10'0"N

32°10'0"N

32°10'0"N

32°10'0"N

32°10'0"N

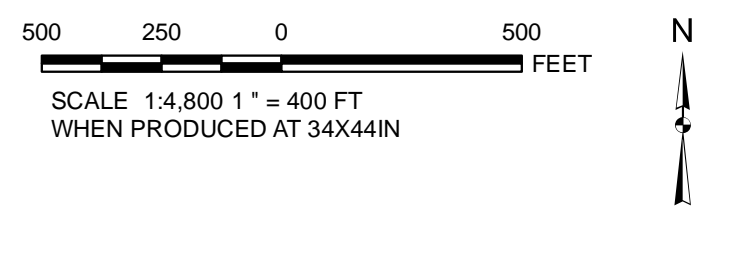
106°40'0"W 106°39'0"W

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

Notes:
 Units are in milligrams per liter.
 Cl = Chloride
 NO₃ = Nitrate as N
 TDS = Total Dissolved Solids



REFERENCES
 Roads: Doña Ana County, 2001
 Aerial Photography: NAR, 2011
 FIPS: 84M, 2000
 Projection: State Plane NAD 83 New Mexico Central (feet)



**DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO**

**GROUND WATER ANALYTICAL RESULTS,
 AUGUST - SEPTEMBER 2014,
 NORTHERN PORTION**

PROJECT	DOÑA ANA DAIRIES MESQUITE, NEW MEXICO
CLIENT	DOÑA ANA COUNTY
DATE	AUGUST - SEPTEMBER 2014
SCALE	1:4,800 1" = 400 FT
PRODUCTION	WHEN PRODUCED AT 34x44IN

EA **FIGURE 6**

2014-09-10 10:00 AM C:\Users\jdoyle\Documents\2014-09-10 10:00 AM 1064000 3210000

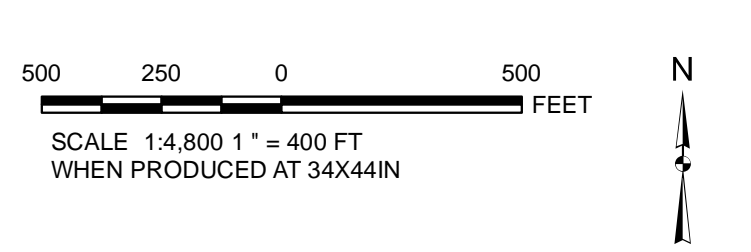


LEGEND:

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

Notes:
 Units are in milligrams per liter.
 Cl = Chloride
 NO₃ = Nitrate as N
 TDS = Total Dissolved Solids

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



PROJECT: DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO

GROUND WATER ANALYTICAL RESULTS
 AUGUST - SEPTEMBER 2014,
 CENTRAL PORTION

PROJECT NO.	14-00000000000000000000	PROJECT NAME	DOÑA ANA DAIRIES
DATE	08/14/2014	CLIENT	DOÑA ANA DAIRIES
DRW	08/14/2014	SCALE	1:4,800
REV			

EA

FIGURE 7

2014-10-15 10:15:15 P:\Projects\14-00000000000000000000\14-00000000000000000000.dwg



LEGEND:

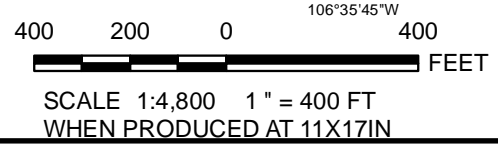
- Land Owned by Dairies
- Public Land Survey System

Notes:
Units are in milligrams per liter.

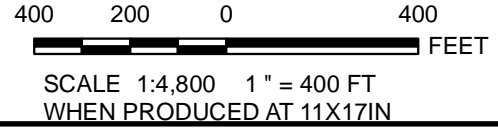
Cl = Chloride
NO₃ = Nitrate as N
TDS = Total Dissolved Solids

REFERENCES

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



PROJECT			
DOÑA ANA DAIRIES MESQUITE, NEW MEXICO			
TITLE			
GROUNDWATER ANALYTICAL RESULTS AUGUST - OCTOBER 2014, SOUTHERN PORTION, REGIONAL AQUIFER			
	PROJECT No. 1464103.0006		Fig8SouthRegionAq_Analytical.mxd
	DESIGN	NA	SCALE AS SHOWN
	GIS	RM	REV 0
	CHECK		
REVIEW			FIGURE 8



LEGEND:

- Land Owned by Dairies
- Public Land Survey System

Notes:
Units are in milligrams per liter.

Cl = Chloride
NO₃ = Nitrate as N
TDS = Total Dissolved Solids

REFERENCES

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

PROJECT			
DOÑA ANA DAIRIES MESQUITE, NEW MEXICO			
TITLE			
GROUNDWATER ANALYTICAL RESULTS AUGUST - SEPTEMBER 2014, SOUTHERN PORTION, PERCHED AQUIFER			
	PROJECT No. 1464103.0006	deloro_analytical_perched200908.mxd	
	DESIGN NA	SCALE AS SHOWN	REV 0
	GIS RM		
	CHECK		
REVIEW			FIGURE 9

**APPENDIX A
SAMPLING FIELD FORMS**

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-01 Date Gauged 8-21-14
 Site B16 SK4 Time Gauged 9:31

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 0 feet Height of Fluid Column NA feet
 Total Depth 36.33 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 THIS WELL IS DRY.

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-62 Date Gauged 8-25-14
 Site BIG SKY Time Gauged 9:40
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 35.48 feet Height of Fluid Column 22.23 feet
 Total Depth 57.71 feet Volume in Well 14.6718 gallons
 (3 Well Volumes = 44 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:46 8-25-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:50	37	37	20.3	3369	8.89	193	2566
10:53	1	38	19.9	3327	8.61	194	2530
10:56	1	39	19.7	3322	8.42	198	2527
10:58	1	40	19.6	3316	8.39	200	2525
11:00	1	41	19.7	3331	8.41	194	2536
11:03	1	42	19.7	3326	8.37	193	2528
11:06	1	43	19.6	3316	8.33	192	2525
11:08	1	44	19.5	3315	8.30	192	2524

Actual Purge Volume 44 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:08 8-25-14 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 833-03 Date Gauged 8-21-14
 Site BIG SKY Time Gauged 9:23

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 0 feet Height of Fluid Column NA feet
 Total Depth 62.74 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 THE WELL IS DRY.

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-04 Date Gauged 8-22-14
 Site _____ Time Gauged 10:01
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 44.57 feet Height of Fluid Column 9.09 feet
 Total Depth 53.66 feet Volume in Well 5.9994 gallons
 (3 Well Volumes = 17.9 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:06 8-22-14 Purged Method _____

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:29	11	11	21.1	3586	7.97	120	2745
10:32	1	12	21.0	3589	7.84	125	2744
10:34	1	13	21.0	3590	7.80	127	2745
10:36	1	14	20.0	3591	7.78	130	2747
10:38	1	15	20.9	3589	7.68	133	2748
10:41	1	16	21.0	3584	7.64	135	2745
10:43	1	17	20.8	3578	7.60	137	2739
10:45	1	18	20.6	3577	7.57	138	2738

Actual Purge Volume ~~200~~ 18 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:45 8-22-14 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-05 Date Gauged 8-21-14

Site BIG SKY Time Gauged 13:20

Depth to PSH _____ feet Well Diameter 4 inches

Depth to Water 66.74 feet Height of Fluid Column 7.01 feet

Total Depth 73.75 feet Volume in Well 4.6266 gallons

(3 Well Volumes = 13.87 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:27 8-21-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:48	7	7	26.2	3851	7.13	181	3961
13:50	1	8	25.9	3868	7.09	184	2982
13:53	1	9	25.1	3887	7.00	187	2991
13:56	1	10	24.8	3895	6.95	188	2971
13:58	1	11	24.2	3907	6.89	191	2943
14:01	1	12	24.1	3901	6.86	192	2915
14:04	1	13	24.0	3886	6.81	194	2903
14:06	1	14	23.8	3882	6.79	193	2887

Actual Purge Volume 14 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 14:06 8-21-14 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-06 Date Gauged 8-21-14
 Site BIG SKY Time Gauged ~~11:20~~ 11:20
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 76.26 feet Height of Fluid Column 8.87 feet
 Total Depth 85.13 feet Volume in Well 5.8542 gallons
 (3 Well Volumes = 17.56 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:26 8-21-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge-Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:51	11	11	22.9	3654	7.37	146	2763
11:54	1	12	22.6	3617	7.34	150	2767
11:57	1	13	22.4	3619	7.27	153	2772
11:59	1	14	22.1	3618	7.23	156	2773
12:02	1	15	21.8	3619	7.20	157	2767
12:05	1	16	21.9	3616	7.19	158	2766
12:08	1	17	21.7	3617	7.13	159	2764
12:10	.5	17.5	21.5	3618	7.10	160	2764

Actual Purge Volume 17.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:10 8-21-14 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-07 Date Gauged 8-21-14
 Site BIG SKY Time Gauged 12:26
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 62.3 feet Height of Fluid Column 11.13 feet
 Total Depth 73.43 feet Volume in Well 7.3458 gallons
 (3 Well Volumes = 22. gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:25 8-21-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:54	15	15	23.1	7014	7.17	178	5710
12:57	1	16	22.7	7079	7.12	180	5767
12:59	1	17	22.3	7050	7.07	181	5747
13:02	1	18	22.1	7054	7.04	182	5744
13:05	1	19	22.0	7051	6.95	183	5751
13:07	1	20		7063	6.94	184	5758
13:10	1	21		7052	6.93	183	5750
13:12	1	22		7057	6.89	182	5755

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

Time/Date Sampled 13:12 8-21-14 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-08 Date Gauged 8-22-14
 Site B.L. SKY Time Gauged 10:58

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 67.94 feet Height of Fluid Column 10.97 feet
 Total Depth 72.91 feet Volume in Well 7.24 gallons
 (3 Well Volumes = 21.72 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:04 8-22-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:31	15	15	22.8	4759	7.05	166	3736
11:33	1	16	22.7	4738	6.96	170	3725
11:36	1	17	22.3	4678	6.91	172	3672
11:37	1	18	22.1	4638	6.86	173	3639
11:40	1	19	21.9	4529	6.82	175	3547
11:42	1	20	21.9	4493	6.79	176	3516
11:44	1	21	21.7	4451	6.76	177	3480
11:46	.75	21.75	21.5	4420	6.73	177	3454

Actual Purge Volume 21.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:46 8-22-14 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. 833-09 Date Gauged 8-22-14
 Site BIG SKY Time Gauged 9:00
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 27.68 feet Height of Fluid Column 11.73 feet
 Total Depth 39.41 feet Volume in Well 7.7418 gallons
 (3 Well Volumes = 23.22 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8-22-14 9:07 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:34	17	17	20.6	5197	7.96	193	4124
9:36	1	18	20.5	5200	7.83	196	4128
9:38	1	19	20.6	5183	7.62	198	4113
9:40	1	20	20.4	5168	7.53	199	4099
9:42	1	21	20.1	5157	7.44	198	4090
9:44	1	22	20.0	5091	7.38	195	4033
9:46	1	23	19.9	5086	7.34	194	4029
9:47	25	23.25	20.0	5084	7.29	193	4027

Actual Purge Volume 23.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:47 8-22-14 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 8-21-14
 Site BIG SKY Time Gauged 9:49
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 21.07 feet Height of Fluid Column 15.9 feet
 Total Depth 36.97 feet Volume in Well 10.494 gallons
 (3 Well Volumes = 31.48 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:54 8-21-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:41	25	25	20.6	4190	7.04	159	3228
10:43	1	26	19.3	4242	6.95	165	3295
10:46	1	27	19.3	4244	6.78	171	3284
10:48	1	28	19.4	4245	6.83	173	3300
10:50	1	29	19.4	4257	6.82	175	3310
10:52	1	30	19.3	4256	6.81	176	3309
10:54	1	31	19.2	4255	6.79	177	3311
10:55	.5	31.5	19.1	4259	6.77	178	3315

Actual Purge Volume 31.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:55 8-21-14 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 340-01 Date Gauged 8-15-14
 Site BRIGHT STAR Time Gauged 10:57
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 43.29 feet Height of Fluid Column 4.72 feet
 Total Depth 48.01 feet Volume in Well 3.1152 gallons
 (3 Well Volumes = 9.34 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:04 8-15-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:11	3	3	22.2	3905	6.55	194	2969
11:13	1	4	22.0	3847	6.66	188	2959
11:15	1	5	22.0	3831	6.65	186	2946
11:18	1	6	21.8	3828	6.59	186	2943
11:21	1	7	21.6	3830	6.62	185	2946
11:23	1	8	21.5	3827	6.60	184	2944
11:26	1	9	21.3	3826	6.62	183	2945
11:28	.25	9.25	21.2	3828	6.62	182	2944

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

Time/Date Sampled 11:28 8-15-14 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 340-02 Date Gauged 8-15-14

Site BRIGHT STAR Time Gauged 11:51

Depth to PSH _____ feet Well Diameter 4 inches

Depth to Water 54.63 feet Height of Fluid Column 2.12 feet

Total Depth 56.75 feet Volume in Well 1.3992 gallons

(3 Well Volumes = 4.19 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:56 8-15-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:59	1	1	23.0	4823	6.62	193	3793
12:02	1	2	22.9	4829	6.54	194	3800
12:04	1	3	22.8	4831	6.58	195	3804
12:07	1	4	22.7	4829	6.57	192	3801
12:08	.25	4.25	22.7	4823	6.51	191	3800

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

Time/Date Sampled 12:08 8-15-14 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 70/86/340-01 Date Gauged 8-15-14
 Site BRIGHT STAR Time Gauged 9:40
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 50.38 feet Height of Fluid Column 17.32 feet
 Total Depth 67.7 feet Volume in Well 11.4312 gallons
 (3 Well Volumes = 34.29 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:45 8-15-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:33	28	28	20.9	8849	6.50	201	7403
10:35	1	29	20.8	9095	6.35	208	7667
10:38	1	30	20.7	9367	6.30	211	7829
10:40	1	31	20.7	9313	6.27	213	7840
10:43	1	32	20.6	9308	6.23	214	7836
10:45	1	33	20.7	9273	6.15	216	7788
10:47	1	34	20.6	9259	6.17	216	7784
10:48	.25	34.25	20.5	9247	6.18	217	7780

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

Time/Date Sampled 10:48 8-15-14 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 86/340-01 Date Gauged 8-15-14
 Site BRIGHT STAR Time Gauged 8:37

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 57.28 feet Height of Fluid Column 13.82 feet
 Total Depth 71.1 feet Volume in Well 9.1212 gallons
 (3 Well Volumes = 27.36 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:42 8-15-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:15	21	21	21.3	4691	7.27	217	3672
9:17	1	22	20.9	3313	7.29	221	2519
9:20	1	23	20.8	3292	7.23	211	2503
9:23	1	24	20.8	3257	7.13	219	2475
9:25	1	25	20.7	3259	7.12	213	2478
9:27	1	26	20.6	3258	6.98	214	2477
9:30	1	27	20.4	3256	7.00	213	2474
9:32	.25	27.25	20.4	3255	6.94	209	2474

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

Time/Date Sampled 9:32 8-15-14 Purged/Sampled By Patricia 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

TraceAnalysis, Inc.

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

185 McCritchton, Ste. H
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

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

Invoice to (if different from above):
Bright Star Dairy, P.O. Box 167, Mesquite, NM 88048
Project #: **441980**

Project Name: **Bright Star Dairy**
Sampler Signature: *Juv*

Project Location (including state):
Bright Star Dairy, 13520 Stern Drive, Mesquite, NM

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					Sampling		
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
340-1		1	250	X			X						8-15-14	11:28
340-1		1	500	X			X						11:28	
340-2		1	250	X			X						12:08	
340-2		1	500	X			X						12:08	
70/86/340		1	250	X			X						10:48	
70/86/340		1	500	X			X						10:48	
86/340		1	250	X			X						9:32	
86/340		1	500	X			X						9:32	
340 Lagoon		1	250	X			X						11:40	
340 Lagoon		1	500	X			X						11:40	

LAB Order ID #	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 6010B/200.7	Nitrates EPA 300	Total Kjeldahl Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD	Other - Phosphorus (EPA 6010B)	Turn Around Time	Hold
MTBE 8021B/602						X						
BTEX 8021B/602						X						

Relinquished By: *Juv* Date: 8-15-14 Time: 12:46
 Received By: *MLP* Date: 8/15/14 Time: 12:46
 Date: 8-15-14 Time: 12:46
 Date: 8-22-22 Time: 12:46
 Remarks: *on ice*
 Lab Use Only Intad Y / N
 Headspace Y / N
 Temp _____
 Dry Weight Basis Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-01 Date Gauged 8-20-14
 Site BUENA VISTA II Time Gauged 12:35
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 36.73 feet Height of Fluid Column 8.39 feet
 Total Depth 45.12 feet Volume in Well 5.5374 gallons
 (3 Well Volumes = 16.61 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged ~~8:12~~ 12:42 8-20-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:01	10	10	23.2	5343	7.04	127	4240
13:03	1	11	22.1	5361	7.03	131	4271
13:04	1	12	22.1	5362	7.02	132	4259
13:06	1	13	22.0	5351	7.00	131	4252
13:08	1	14	21.9	5305	6.98	130	4214
13:09	1	15	22.0	5315	6.94	131	4218
13:11	1	16	21.9	5305	6.93	132	4204
13:13	0.75	16.75	21.6	5299	6.92	133	4198

6.92

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

Time/Date Sampled 13:13 8-20-14 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 8-20
 Site BUENA VISTA II Time Gauged 11:52

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 17.53 feet Height of Fluid Column 2.61 feet
 Total Depth 20.14 feet Volume in Well 1.7226 gallons
 (3 Well Volumes = 5.16 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:57 8-20 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:59	1	1	22.5	3697	7.04	174	2830
12:01	1	2	22.4	3704	7.00	176	2840
12:03	1	3	22.4	3693	6.95	177	2827
12:04	1	4	22.1	3691	6.92	177	2824
12:06	1	5	22.0	3685	6.89	178	2822
12:07	25	5.25	21.8	3694	6.88	179	2819

Actual Purge Volume 5.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:07 8-20-14 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 74-03 Date Gauged 8-20-14
 Site BUENA VISTA II Time Gauged 11:20
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 16.11 feet Height of Fluid Column 4 feet
 Total Depth 20.11 feet Volume in Well 2.64 gallons
 (3 Well Volumes = 7.92 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:25 8-20-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:27	1	1	23.0	6405	7.04	178	5156
11:29	1	2	22.9	6416	6.99	181	5177
11:31	1	3	22.9	6388	6.95	182	5161
11:33	1	4	29.7	6373	6.92	183	5146
11:35	1	5	29.6	6357	6.90	183	5135
11:37	1	6	29.5	6348	6.86	184	5124
11:39	1	7	29.5	6331	6.85	183	5115
11:41	1	8	29.4	6326	6.84	182	5107

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

Time/Date Sampled 11:41 8-20-14 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 8-21-14
 Site BUENA VISTA II Time Gauged 7:11
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 42.34 feet Height of Fluid Column 15.51 feet
 Total Depth 57.85 feet Volume in Well 10.2366 gallons
 (3 Well Volumes = 30.7098 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:16 8-21-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
7:38	24	24	22.0	3344	8.04	209	2547
7:41	1	25	21.4	3321	7.82	211	2528
7:44	1	26	21.4	3317	7.66	212	2524
7:48	1	27	21.3	3320	7.53	213	2529
7:51	1	28	21.4	3325	7.42	212	2532
7:54	1	29	21.2	3327	7.35	211	2534
7:56	1	30	21.1	3333	7.25	211	2536
7:58	.75	30.75	21.1	3330	7.21	210	2538

Actual Purge Volume 30.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 7:58 8-21-14 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-05 Date Gauged 8-21-14
 Site BUENA VISTA II Time Gauged 8:15

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 42.3 feet Height of Fluid Column 14.67 feet
 Total Depth 56.97 feet Volume in Well 9.6822 gallons
 (3 Well Volumes = 29 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:22 8-21-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:58	22	22	21.5	3024	7.12	102	2284
9:02	1	23	21.4	3018	7.08	103	2281
9:04	1	24	21.4	3021	7.05	105	2280
9:07	1	25	21.5	3019	6.97	124	2281
9:10	1	26	21.4	3017	6.95	127	2279
9:13	1	27	21.3	3020	6.91	130	2280
9:15	1	28	21.2	3017	6.90	133	2279
9:17	1	29	21.1	3018	6.86	136	2278

Actual Purge Volume 29 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:17 8-21-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

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

Phone #: 915-859-8150

Cell #: _____

Fax #: _____

E-mail: vayala@dhpump.com

Project #: 441987

Project Name: Buena Vista Dairy II

Project Location (including state): Buena Vista Dairy II, P.O. Box 346, Mesquite, NM 88048

Project Name: Buena Vista Dairy II

Sampler Signature: *July*

Project Name: Buena Vista Dairy II

Project Location (including state): Buena Vista Dairy II, 14300 Stern Drive, Mesquite, NM

Project Name: Buena Vista Dairy II

Project Location (including state): Buena Vista Dairy II, 14300 Stern Drive, Mesquite, NM

Project Name: Buena Vista Dairy II

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Project Name: Buena Vista Dairy II

Project Location (including state): Buena Vista Dairy II, 14300 Stern Drive, Mesquite, NM

Project Name: Buena Vista Dairy II

Project Location (including state): Buena Vista Dairy II, 14300 Stern Drive, Mesquite, NM

Project Name: Buena Vista Dairy II

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

LAB Order ID # _____

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

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

TPH 418.1 / TX1005

Lab Use Only

Intact Y/N

Headspace Y/N

Temp DR 2 / 12

Log-in Review

Dry Weight Basis Required

TRRP Report Required

Remarks:

2

4

Received By: MRC TREP

Date: 8/21/14

Time: 14:30

Relinquished By: *July*

Date: 8-21-14

Time: 14:30

Received at Laboratory By: MRC TREP

Date: 8/21/14

Time: 14:30

Relinquished By: MRC TREP

Date: 8/21/14

Time: 14:30

Received at Laboratory By: MRC TREP

Date: 8/21/14

Time: 14:30

Relinquished By: MRC TREP

Date: 8/21/14

Time: 14:30

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-10 Date Gauged 10/3/14
 Site Del Oro Time Gauged 9:27 am
 Depth to PSH N/A feet Well Diameter 2 inches
 Depth to Water 83.93 feet Height of Fluid Column 10.42 feet
 Total Depth 94.35 feet Volume in Well 1.7714 gallons
 (3 Well Volumes = 5.3142 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged _____ Purged Method baller

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:32	1	1	20.4 8	2437	7.54	198	1787
9:36	1	2	20.2	2432	7.51	200	1782
9:41	1	3	20.3	2433	7.47	197	1776
9:44	1	4	20.1	2428	7.43	199	1771
9:48	1	5	20.1	2424	7.40	201	1768
9:52	0.5	5.5	20.0	2421	7.38	198	1764

Actual Purge Volume 5.5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 10/3/14 10:01 am Purged/Sampled By IC
 Sample Method baller
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-01 Date Gauged 8-27-14
 Site _____ Time Gauged 12:45
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 61.29 feet Height of Fluid Column _____ feet
 Total Depth _____ feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:56 8-27-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:58	1	1	29.7	4222	6.90	256	3256
13:01	1	2	29.2	4223	6.80	260	3280
13:03	1	3	29.1	4225	6.71	263	3284
13:05	1	4	29.0	4224	6.63	266	3283
13:07	1	5	29.0	4219	6.55	267	3279

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

Time/Date Sampled 13:07 8-27-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations HAD TO WAIT WHILE COWS CLEARED AWAY.

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 8-27-14
 Site DEJ ORO Time Gauged 13:10

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 59.03 feet Height of Fluid Column 7.7 feet
 Total Depth 66.73 feet Volume in Well 5.082 gallons
 (3 Well Volumes = 15.24 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:16 8-27-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:42	9	9	23.8	5236	6.95	254	4128
13:45	1	10	22.8	5214	6.83	259	4137
13:48	1	11	22.7	5195	6.80	262	4121
13:50	1	12	22.7	5172	6.76	262	4098
13:52	1	13	22.6	5169	6.73	261	4097
13:55	1	14	22.7	5158	6.68	263	4081
13:58	1	15	22.6	5160	6.66	263	4087
13:59	.25	15.25	22.5	5152	6.64	262	4061

Actual Purge Volume 15.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:59 8-27-14 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 692-04 Date Gauged 8-28-14
 Site DEI ORO Time Gauged 7:30

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 60.16 feet Height of Fluid Column .36 feet
 Total Depth 60.52 ~~feet~~ feet Volume in Well .2376 gallons
 (3 Well Volumes = .7128 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:45 8-28-14 Purged Method ~~Purge~~ BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
7:52	.25	0.25 .25	23.2	3977	7.67	228	306.3

Actual Purge Volume < .25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 7:52 8-28-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations THE WASNT MUCH WATER. IT MADE PURGING DIFFICULT. LESS THAN .25 PURGED.

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 692-05 Date Gauged 8-27-14
 Site DEI DRU Time Gauged 10:21
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 81.06 feet Height of Fluid Column _____ feet
 Total Depth PUMP feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:26 8-27-14 Purged Method PUMP

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:28	1	1	25.9	2353	8.09	227	1781
10:30	1	2	25.8	2285	7.88	230	1699
10:32	1	3	26.0	2265	7.62	235	1682
10:34	1	4	26.1	2250	7.50	236	1670
10:36	1	5	26.0	2238	7.41	237	1662

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

Time/Date Sampled 10:36 8-27-14 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 692-06 Date Gauged ~~8-27-14~~ 8-27-14
 Site Del ORU Time Gauged 11:00
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 82.93 feet Height of Fluid Column 7.24 feet
 Total Depth 90.17 feet Volume in Well 4.7784 gallons
 (3 Well Volumes = 14.3352 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:06 8-27-14 Purged Method ~~WAMP~~ BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:30	8	8	23.7	2227	7.35	161	1655
11:40	1	9	22.9	2250	7.29	169	1665
11:43	1	10	22.6	2252	7.27	172	1671
11:46	1	11	22.6	2253	7.23	175	1673
11:49	1	12	22.5	2256	7.19	177	1669
11:53	1	13	22.4	2253	7.16	178	1673
11:55	1	14	22.5	2255	7.10	180	1672
11:56	0.25	14.25	22.3	2251	7.01	180	1672

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

Time/Date Sampled 11:56 8-27-14 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 692-07 Date Gauged 8-27-14
 Site DEI 080 Time Gauged 12:34

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 7494 feet Height of Fluid Column _____ feet
 Total Depth _____ feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged _____ Purged Method _____

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

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations NO WATER WOULD PURGE.

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-08 Date Gauged 8-27-14
 Site DEL DRD Time Gauged 12:06
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 68.75 ~~71.14~~ feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:12 8-27-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:14	1	1	23.4	2156	7.53	217	1572
12:16	1	2	23.8	2165	7.43	227	1561
12:18	1	3	23.0	2154	7.38	232	1573
12:20	1	4	23.1	2157	7.35	234	1575
12:22	1	5	23.1	2153	7.29	236	1573

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

Time/Date Sampled 12:22 8-27-14 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-09 Date Gauged 8-28-14
 Site DEL ORO Time Gauged 8:05

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 84.04 feet Height of Fluid Column _____ feet
 Total Depth PUMP ~~84.04~~ feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:12 8-28-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:14	1	1	22.8	2238	7.59	196	1662
8:16	1	2	22.7	2224	7.48	208	1653
8:18	1	3	22.7	2215	7.42	215	1644
8:20	1	4	22.6	2212	7.31	221	1641
8:22	1	5	22.4	2211	7.27	222	1640

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

Time/Date Sampled 8:22 8-28-14 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

TraceAnalysis, Inc.
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298
 Phone #: 915-859-8150
 Cell #: _____
 Fax #: _____
 E-mail: vajala@dchpump.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):
 Del Oro Dairy, PO Box 1846, Anthony, TX 88021
Project #: 449049
Project Name: Del Oro Dairy
Sampler Signature: *Jay*

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

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
	692-04	1	250	X				X		X			8-28-14	7:52
	692-04	1	250	X				X		X				7:52
	692-09		250	X				X		X				8:22
	692-09		250	X				X		X				8:22

Relinquished By: *Jay* Date: 8-28-14 Time: 12:45
Received By: *Jay* Date: 8-28-14 Time: 12:45
Relinquished By: _____ Date: _____ Time: _____
Received at Laboratory By: _____ Date: _____ Time: _____

Page 1 of 1
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										X									
TKN SM 4500 NORG C										X									
Chloride EPA 300										X									
Total Dissolved Solids SM 2540 C MOD											X								
Turn Around Time																			

Remarks:
 Lab Use Only
 Intact Y / N
 Headspace Y / N
 Temp 23.6
 Log-in Review _____
 Dry Weight Basis Required _____
 TRRP Report Required _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-01 Date Gauged ~~8-19-14~~ 8-19-14
 Site DOMINGUEZ Time Gauged ~~13:08~~ 13:08
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 26.66 feet Height of Fluid Column 20.04 feet
 Total Depth 46.7 feet Volume in Well 13.2264 gallons
 (3 Well Volumes = ~~20.04~~ 39.67 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:12 8-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:58	33	33	24.6	4254	7.06	137	3307
14:00	1	34	24.0	4301	7.00	142	3354
14:02	1	35	24.0	4306	6.95	145	3350
14:04	1	36	23.8	4293	6.91	147	3344
14:06	1	37	23.9	4277	6.88	149	3329
14:08	1	38	23.7	4265	6.86	151	3317
14:10	1	39	23.6	4266	6.84	153	3318
14:12	1.75	39.75	23.5	4256	6.82	154	3308

Actual Purge Volume 39.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 14:12 8-19-14 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 624-02 Date Gauged 8-19-14
 Site DOMINGUEZ Time Gauged 12:15
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 19.16 feet Height of Fluid Column 18.14 feet
 Total Depth 37.3 feet Volume in Well 11.9724 gallons
 (3 Well Volumes = 35.91 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:20 12:20 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:48	29	29	22.5	5336	6.95	185	4259
12:50	1	29 30	21.8	5355	6.85	187	4252
12:52	1	31	21.3	5333	6.71	188	4237
12:54	1	32	20.8	5320	6.65	189	4207
12:56	1	33	20.7	5308	6.70	190	4200
12:58	1	34	20.7	5306	6.67	189	4217
13:00	1	35	20.5	5294	6.66	188	4208
13:02	1	36	20.4	5286	6.64	187	4202

Actual Purge Volume 36 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:02 8-19-14 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 624-04 Date Gauged 8-20-14
 Site DOMINGUEZ Time Gauged ~~7:17~~ 7:19
 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 _____ 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 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 624-05 Date Gauged ~~XXXXXX~~ 8-20-14
 Site DOMINGUEZ Time Gauged ~~XXXXXX~~ 7:26

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)	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 624-06 Date Gauged 8-29-14
 Site DOMIN GUTZ Time Gauged ~~MON~~ 7:11

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)

GROUNDWATER SAMPLING DATA

Time/date Purged _____ Purged Method _____

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

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE WELL IS DRY.

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-67 Date Gauged ~~8-20-14~~ 8-20-14
 Site Dominquez Time Gauged ~~7:00~~ 7:00
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water ~~55.60~~ 55.60 feet Height of Fluid Column .02 feet
 Total Depth ~~55.7~~ 55.7 feet Volume in Well .0132 gallons
 (3 Well Volumes = .0396 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 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-08 Date Gauged 8-20-14

Site Dominavel Time Gauged 11:35

Depth to PSH _____ feet Well Diameter 4 inches

Depth to Water 0 feet Height of Fluid Column NA feet

Total Depth 19.4 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)	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 42-02 Date Gauged 8-26-14

Site Dampier II Time Gauged 9:48

Depth to PSH _____ feet Well Diameter _____ inches

Depth to Water 27.46 feet Height of Fluid Column _____ feet

Total Depth Pump feet Volume in Well _____ gallons

(3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:50 8-26-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:52	1	1	21.1	3542	7.57	102	2704
9:54	1	2	20.9	3541	7.40	110	2707
9:56	1	3	20.8	3537	7.30	116	2704
9:58	1	4	20.9	3535	7.23	120	2702
10:00	1	5	20.8	3533	7.17	124	2700

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

Time/Date Sampled 10:00 8-26-14 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 8-26-14
 Site DOMINGUEZ 2 Time Gauged 7:20
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 84.77 feet Height of Fluid Column NA feet
 Total Depth ~~87.77~~ feet Volume in Well NA gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:27 8-26-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
7:29	1	1	25.6	5101	7.75	200	4042
7:31	1	2	25.6	5095	7.40	203	4035
7:33	1	3	25.2	5091	7.17	204	4033
7:35	1	4	25.4	5098	7.02	174	4040
7:37	1	5	25.6	5101	6.92	171	4038
7:39							

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

Time/Date Sampled 7:37 8-26-14 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 8-26-14
 Site DOMINGUEZ II Time Gauged 9:14
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 33.68 feet Height of Fluid Column _____ feet
 Total Depth PUMP feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:19 8-26-14 Purged Method PUMP

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:21	1	1	22.7	3182	7.30	134	2407
9:24	1	2	22.1	3190	7.69	130	2419
9:26	1	3	21.8	3209	7.65	125	2434
9:28	1	4	21.8	3212	7.62	124	2438
9:30	1	5	21.8	3214	7.58	126	2439

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 9:30 8-26-14 Purged/Sampled By JV
 Sample Method Pump
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-07 Date Gauged 8-26-14
 Site DOMINGUEZ II Time Gauged 10:58

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 0 feet Height of Fluid Column _____ feet
 Total Depth PUMP feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged _____ Purged Method _____

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

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE WELL IS DRY.

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-08 Date Gauged 8-26-14
 Site Dominion II Time Gauged 10:20
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 39.56 feet Height of Fluid Column _____ feet
 Total Depth ~~2000~~ feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:24 8-26-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:26	1	1	21.9	2333	7.25	147	1730
10:28	1	2	21.7	2330	7.55	148	1734
10:30	1	3	21.6	2328	7.53	149	1732
10:32	1	4	21.5	2327	7.52	150	1731
10:34	1	5	21.4	2320	7.50	149	1727

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

Time/Date Sampled 10:34 8-26-14 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 42-09 Date Gauged 8-26-14
 Site DOMINGUEZ II Time Gauged 8:52
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 49.44 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:56 8-26-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:58	1	1	23.0	4620	7.61	109	3622
9:00	1	2	23.0	4622	7.50	119	3625
9:02	1	3	22.9	4616	7.42	126	3621
9:04	1	4	22.8	4614	7.36	129	3620
9:06	1	5	22.8	4616	7.32	131	3622

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

Time/Date Sampled 9:06 8-26-14 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 8-26-14
 Site DOMINGUEZ II Time Gauged 12:20-14
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 115.4 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:26 ~~14~~ 8-26-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:29	1	1	28.6	2196	7.46	168	1629
12:31	1	2	28.1	2207	7.39	152	1636
12:33	1	3	28.0	2206	7.33	141	1633
12:35	1	4	27.8	2204	7.29	126	1632
12:37	1	5	27.7	2203	7.26	115	1631

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

Time/Date Sampled 12:37 8-26-14 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 ~~42-11~~ 42-11 Date Gauged 8-27-14
 Site DOMINGUEZ II Time Gauged 9:02

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 125.89 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:10 8-27-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:13	1	1	22.6	5159	7.10	190	4092
9:15	1	2	22.6	5114	7.05	177	4051
9:17	1	3	22.6	5108	7.00	157	4049
9:20	1	4	22.5	5111	6.94	138	4052
9:22	1	5	22.6	5108	6.88	122	4049

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

Time/Date Sampled 9:22 8-27-14 Purged/Sampled By JV

Sample Method ~~BA~~ Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-12 Date Gauged 8-26-14
 Site DOMINION II Time Gauged 11:48

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 132.15 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:54 8-26-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:56	1	1	30.5	1911	7.33	180	1382
11:58	1	2	29.4	1919	7.30	179	1388
12:01	1	3	29.3	1916	7.28	178	1391
12:03	1	4	29.1	1923	7.25	176	1396
12:05	1	5	28.9	1912	7.22	175	1388

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 12:05 8-26-14 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~~ 42-13 Date Gauged 8-27-14
 Site DOMINGUEZ II Time Gauged 9:33

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water ~~57.6~~ 57.6 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged ~~9:38~~ 9:38 8-27-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:40	1	1	27.2	1923	7.94	151	1391
9:42	1	2	27.1	1924	7.71	167	1393
9:44	1	3	27.1	1923	7.61	177	1392
9:46	1	4	27.1	1921	7.55	185	1391
9:48	1	5	27.0	1919	7.48	191	1390

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

Time/Date Sampled 9:48 8-27-14 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

8707 Aberdeen, Ste. 9
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

TraceAnalysis, Inc.

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

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

LAB Order ID # _____

Invoice to (if different from above):
 Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048

ANALYSIS REQUEST

Project Location (including state): Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM
 Project #: 441971
 Project Name: Dominguez Dairy #2
 Sampler Signature: *[Signature]*

Project Name: Isaac Dominguez 575-649-7040

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH			ICE	NONE
	42-11	1	250	X						X				8-27-14	9:22
	42-11	1	250	X						X					9:22
	42-13	1	250	X						X					9:48
	42-13	1	250	X						X					9:48
		1		X						X					
		1		X						X					

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

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
<i>[Signature]</i>	8-26-14	14:18	<i>[Signature]</i>	8-27-14	14:18

Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
<i>[Signature]</i>	8-26-14	14:18	<i>[Signature]</i>	8-27-14	14:18

Lab Use Only

Remarks:

Intact N
 Headspace Y / N

Dry Weight Basis Required
 TRRP Rsnrt Rsnrt

Temp 22 / 33
 Log-in Review

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-01 Date Gauged 8-29-14
 Site _____ Time Gauged 8:03
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 71.97 feet Height of Fluid Column 4.23 feet
 Total Depth 76.2 feet Volume in Well .7191 gallons
 (3 Well Volumes = 2.15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:17 8-29-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:20	1	1	25.1	2861	8.19	238	2174
8:23	1	2	24.8	2781	7.84	243	2108
8:24	.25	2.25	24.8	2682	7.57	246	2025

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

Time/Date Sampled 8:24 8-29-14 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 DAD-02 Date Gauged 8-29-14
 Site _____ Time Gauged 8:40

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 66.59 feet Height of Fluid Column 1.51 feet
 Total Depth 68.1 feet Volume in Well 2567 gallons
 (3 Well Volumes = 7701 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:46 8-29-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:51	.75	.75	24.0	2589	7.49	195	1950

Actual Purge Volume .75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 8:51 8-29-14 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 DAD-03 Date Gauged 8-29-14
 Site _____ Time Gauged 9:07

 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 13.23 feet Height of Fluid Column 1.87 feet
 Total Depth 15.1 feet Volume in Well .3179 gallons
 (3 Well Volumes = .95 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:14 8-29-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:19	1	1	22.2	452	7.25	-26	3225

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 9:19 8-29-14 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-4 Date Gauged 8-29-14
 Site _____ Time Gauged 9:40

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 15.85 feet Height of Fluid Column 2.63 feet
 Total Depth 18.48 feet Volume in Well .4471 gallons
 (3 Well Volumes = 1.34 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:46 8-29-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:50	1	1	21.3	3263	7.43	10	2481
9:51	.25	1.25	20.8	3298	7.37	5	2509

Actual Purge Volume 1.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:51 8-29-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-5 Date Gauged 8-29-14
 Site _____ Time Gauged 10:50
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 14.37 feet Height of Fluid Column 8.98 feet
 Total Depth 23.35 feet Volume in Well 1.5266 gallons
 (3 Well Volumes = 4.57 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:01 8-29-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:04	1	1	19.9	1932	8.71	117	1392
11:08	1	2	19.8	1924	8.64	122	1391
11:11	1	3	19.9	1892	8.43	126	1367
11:14	1	4	19.7	1867	8.36	129	1349
11:16	.5	4.5	19.7	1847	8.26	131	1331

Actual Purge Volume 4.5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 11:16 8-29-14 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-06 Date Gauged 8-29-14
 Site _____ Time Gauged 11:30

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 0 feet Height of Fluid Column _____ feet
 Total Depth 83.40 feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged _____ Purged Method _____

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

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations THE WELL IS DRY.

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-07 Date Gauged 9-02-14
 Site _____ Time Gauged 9:03
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 92.15 feet Height of Fluid Column 8.55 feet
 Total Depth 100.7 feet Volume in Well 1.4535 gallons
 (3 Well Volumes = 4.3605 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:08 9-2-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:12	1	1	24.5	3348	8.36	217	2560
9:16	1	2	24.4	3337	7.94	225	2542
9:21	1	3	24.5	3340	7.74	226	2544
9:25	1	4	24.6	3338	7.61	225	2543
9:27	.5	4.5	24.6	3335	7.53	224	2542

Actual Purge Volume 4.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:27 9-2-14 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-08 Date Gauged 9-2-14
 Site _____ Time Gauged 9:51
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 53.11 feet Height of Fluid Column 2.53 feet
 Total Depth 55.64 feet Volume in Well .4301 gallons
 (3 Well Volumes = 1.29 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:59 9-2-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>10:06</u>	<u>1</u>	<u>1</u>	<u>23.0</u>	<u>7287</u>	<u>7.25</u>	<u>175</u>	<u>5953</u>
	<u>.25</u>	<u>1.25</u>					

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 10:06 9-2-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations COULD ONLY PURGE 1 GALLON

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-09 Date Gauged 8-28-14
 Site _____ Time Gauged 9:28
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 56.59 feet Height of Fluid Column 4.84 feet
 Total Depth 61.43 feet Volume in Well .8228 gallons
 (3 Well Volumes = 2.46 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:34 8-28-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:37	1	1	23.2	2552	7.24	192	1917
9:40	1	2	23.2	2558	7.16	198	1919
9:42	.5	2.5	23.1	2554	7.10	202	1921

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

Time/Date Sampled 9:42 8-28-14 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-10 Date Gauged ~~8-28-14~~ 8-28-14
 Site _____ Time Gauged 11:38
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 83.29 feet Height of Fluid Column 11.15 feet
 Total Depth 94.44 feet Volume in Well 1.8955 gallons
 (3 Well Volumes = 5.68 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:46 ~~8-28-14~~ 8-28-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:50	1	1	22.1	2429	7.47	200	1815
11:54	1	2	22.1	2405	7.40	204	1796
11:58	1	3	22.0	2393	7.37	200	1787
12:03	1	4	21.9	2382	7.30	207	1778
12:08	1	5	21.8	2370	7.27	208	1770
12:11	.75	5.75	21.8	2363	7.21	208	1762

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

Time/Date Sampled 12:11 8-28-14 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-11 Date Gauged 9-3-14
 Site _____ Time Gauged ~~8:12~~ 8:12
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 20.8 feet Height of Fluid Column 26.57 feet
 Total Depth 47.37 feet Volume in Well 4.5169 gallons
 (3 Well Volumes = 13.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:17 9-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:41	7	7	23.1	4617	7.47	228	3623
8:44	1	8	23.3	4561	7.90	230	3575
8:47	1	9	23.2	4531	7.51	231	3550
8:50	1	10	23.2	4521	7.34	231	3541
8:53	1	11	23.1	4519	7.18	230	3539
8:56	1	12	23.1	4518	7.07	230	3538
8:59	1	13	23.0	4515	6.99	228	3537
9:01	1	13.5	22.9	4512	6.89	227	3534

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

Time/Date Sampled 9:01 9-3-14 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-12 Date Gauged 9-3-14
 Site _____ Time Gauged 9:10
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 51.14 feet Height of Fluid Column 31.17 feet
 Total Depth 82.31 feet Volume in Well 5.2989 gallons
 (3 Well Volumes = 15.8 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:16 9-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:43	9	9	22.5	4126	7.34	160	3203
9:47	1	10	22.5	4108	7.25	165	3186
9:51	1	11	22.4	4105	7.18	168	3184
9:54	1	12	22.1	4102	7.13	171	3181
9:57	1	13	22.1	4098	7.08	173	3178
10:01	1	14	22.0	4097	7.05	175	3177
10:04	1	15	21.8	4089	7.02	176	3176
10:08	1	15 16	21.9	4088	6.99	177	3176

Actual Purge Volume 16 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:08 9-3-14 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-13 Date Gauged 9-2-14
 Site _____ Time Gauged 10:36
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 86.7 feet Height of Fluid Column 5.5 feet
 Total Depth 92.2 feet Volume in Well .935 gallons
 (3 Well Volumes = 2.8 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:43 9-2-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:47	1	1	24.8	3055	7.56	164	2309
10:52	1	2	24.6	3042	7.43	171	2298
10:56	1	3	24.7	3039	7.34	174	2297

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

Time/Date Sampled 10:56 9-2-14 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 DAD-14 Date Gauged 9-2-14
 Site _____ Time Gauged 11:15
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 28.66 feet Height of Fluid Column 13.8 feet
 Total Depth 42.46 feet Volume in Well 1.932 gallons
 (3 Well Volumes = 5.796 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:23 9-2-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:27	1	1	21.3	4922	7.57	167	3883
11:31	1	2	21.2	4962	7.57	170	3920
11:35	1	3	21.3	4952	7.56	171	3900
11:38	1	4	21.3	4955	7.54	173	3913
11:41	1	5	21.4	4964	7.47	174	3921
11:45	1	6	21.4	4953	7.48	175	3910

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

Time/Date Sampled 11:45 9-2-14 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 DAD-15 Date Gauged 9-2-14
 Site _____ Time Gauged 12:06
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 95.52 feet Height of Fluid Column 13.94 feet
 Total Depth 109.46 feet Volume in Well 2.3698 gallons
 (3 Well Volumes = 7.1 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:07 9-2-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:12	1	1	24.4	2709	7.92	162	2046
12:16	1	2	24.5	2706	7.76	167	2044
12:20	1	3	24.3	2705	7.69	169	2045
12:25	1	4	24.3	2701	7.64	171	2041
12:29	1	5	24.2	2699	7.60	172	2039
12:33	1	6	24.0	2697	7.58	173	2038
12:37	1	7	24.0	2698	7.52	174	2038
12:41							

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

Time/Date Sampled 12:37 9-2-14 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-16 Date Gauged 9-2-14
 Site _____ Time Gauged 12:57
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 19.47 feet Height of Fluid Column 13.18 feet
 Total Depth 32.65 feet Volume in Well 2.2406 gallons
 (3 Well Volumes = 6.72 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:05 9-2-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:09	1	1	19.5	3763	7.47	182	2885
13:12	1	2	19.4	3783	7.43	183	2907
13:15	1	3	19.4	3769	7.39	184	2898
13:19	1	4	19.3	3778	7.35	185	2902
13:23	1	5	19.2	3767	7.32	186	2894
13:27	1	6	19.1	3762	7.30	186	2891
13:29	.25	6.25	19.0	3754	7.27	187	2885

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

Time/Date Sampled 13:29 9-2-14 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 ga/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-17 Date Gauged 9-3-14
 Site _____ Time Gauged 12:23
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 20.34 feet Height of Fluid Column 17.9 feet
 Total Depth 38.24 feet Volume in Well 3.043 gallons
 (3 Well Volumes = 9.1 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:27 9-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:30	2	2	20.4	2420	7.57	150	1807
12:33	1	3	20.1	2388	7.54	150	1781
12:35	1	4	19.9	2363	7.51	151	1761
12:37	1	5	19.6	2304	7.39	154	1714
12:41	1	6	19.4	2169	7.37	155	1607
12:42	1	7	19.3	2112	7.33	156	1543
12:44	1	8	19.1	2099	7.31	157	1531
12:46	1	9	19.0	2086	7.29	158	1526

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

Time/Date Sampled 12:46 9-3-14 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-18 Date Gauged 9-3-14
 Site _____ Time Gauged 11:24

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 22.97 feet Height of Fluid Column 34 feet
 Total Depth 56.97 feet Volume in Well 5.78 gallons
 (3 Well Volumes = 17.34 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:28 9-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:52	11	11	19.6	4548	5.83	232	3570
11:54	1	12	19.4	4530	5.91	201	3545
11:57	1	13	19.3	4518	6.96	181	3527
12:00	1	14	19.1	4492	7.03	182	3516
12:03	1	15	19.0	4481	7.02	183	3505
12:05	1	16	18.8	4494	7.00	184	3517
12:08	1	17	18.6	4486	6.98	185	3505
12:09	.25	17.25	18.5	4475	6.96	185	3497

Actual Purge Volume 17.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:09 9-3-14 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-19 Date Gauged 9-3-14
 Site _____ Time Gauged 10:18

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 65.34 feet Height of Fluid Column 33.86 feet
 Total Depth 99.2 feet Volume in Well 5.7562 gallons
 (3 Well Volumes = 17.26 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:23 9-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:55	11	11	23.1	4767	7.12	152	3738
10:58	1	12	23.0	4771	7.21	154	3744
11:02	1	13	22.9	4775	7.37	156	3756
11:05	1	14	22.8	4778	7.33	157	3759
11:08	1	15	22.6	4782	7.28	160	3762
11:11	1	16	22.5	4784	7.22	161	3765
11:14	1	17	22.6	4785	7.17	162	3766
11:15	.25	17.25	22.5	4787	7.11	164	3769

Actual Purge Volume 17.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:15 9-3-14 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-20 Date Gauged 8-28-14
 Site _____ Time Gauged 10:45
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 54.29 feet Height of Fluid Column 14.72 feet
 Total Depth 69.01 feet Volume in Well 2.5024 gallons
 (3 Well Volumes = 7.50 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:53 8-28-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:57	1	1	22.9	3652	7.76	186	2797
11:06	1	2	23.0	3650	7.62	193	2799
11:03	1	3	22.9 22.9	3645	7.52	197	2794
11:06	1	4	22.8	3632	7.40	200	2783
11:09	1	5	22.8	3628	7.37	201	2782
11:13	1	6	22.8	3633	7.33	202	2784
11:16	1	7	22.7	3628	7.31	203	2781
11:18	.5	7.5	22.7	3633	7.25	204	2785

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

Time/Date Sampled 11:18 8-28-14 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 8-28-14
 Site _____ Time Gauged 8:58
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 56.85 feet Height of Fluid Column 9.7 feet
 Total Depth 66.55 feet Volume in Well 1.649 gallons
 (3 Well Volumes = 4.94 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:04 8-28-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:07	1	1	22.0	3105	7.16	200	2350
9:10	1	2	21.9	3103	7.01	206	2349
9:13	1	3	21.8	3094	6.86	209	2343
9:16	1	4	21.9	3092	6.84	210	2340
9:18	1	5	21.8	3091	6.80	211	2339

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

Time/Date Sampled 9:18 8-28-14 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-22 Date Gauged 8-28-14
 Site _____ Time Gauged 10:02
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 47.0 feet Height of Fluid Column 3.03 feet
 Total Depth 50.03 feet Volume in Well .5151 gallons
 (3 Well Volumes = 1.54 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:09 8-28-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:15	1	1	23.8	3797	7.71	169	2911
	.5	1.5					

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

Time/Date Sampled 10:15 8-28-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations THE WATER WAS SHALLOW TOOK TIME TO GET 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

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): Dona Ana Dairies, PO Box 10, Mesquite, NM 88048
Project #: 449037
Project Location (including state): Various Dairies, Dona Ana County, NM
Project Name: Dona Ana Dairies Consortium
Sampler Signature: *guy*

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
DAD-01		1	250	X				X				X		8:24	8:24
DAD-01		1	250	X				X				X		8:24	8:24
DAD-02		1	250	X				X				X		8:51	8:51
DAD-02		1	250	X				X				X		8:51	8:51
DAD-03		1	250	X				X				X		9:19	9:19
DAD-03		1	250	X				X				X		9:19	9:19
DAD-04		1	250	X				X				X		9:51	9:51
DAD-04		1	250	X				X				X		9:51	9:51
DAD-05		1	250	X				X				X		11:16	11:16
DAD-05		1	250	X				X				X		11:16	11:16
DAD-06		1	250	X				X				X			
DAD-06		1	250	X				X				X			
DAD-07		1	250	X				X				X			
DAD-07		1	250	X				X				X			
DAD-08		1	250	X				X				X			
DAD-08		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	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

Turn Around Time _____
 Hold _____

Relinquished By: *guy* Date: 8-29-14 Time: 12:30
 Relinquished By: *MRC* Date: 8/29/14 Time: 16:30

Received By: *MRC* Date: 8/29/14 Time: 12:30
 Received at Laboratory By: _____ Date: _____ Time: _____

Lab Use Only
 Intact Y N
 Headspace Y N
 Temp _____
 Log-in Review _____

Remarks: *MRC*

Dry Weight Basis Required
 TRRP Report Required

Carson DR

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

TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Invoice to (if different from above):
 Dona Ana Dairies, PO Box 10, Mesquite, NM 88048
 Project #: 449037
 Project Name: Linda Armstrong 575-233-3620
 Dona Ana Dairies Consortium
 Sampler Signature: *[Signature]*

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

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
	DAD-11	1	256	X				X					9-3-14	9:01
	DAD-11	1	250	X				X						9:01
	DAD-12	1	250	X				X					10:08	
	DAD-12	1	250	X				X					10:08	
	DAD-14	1	250	X				X					11:15	
	DAD-14	1	250	X				X					11:15	
	DAD-16	1	250	X				X					12:09	
	DAD-16	1	250	X				X					12:09	
	DAD-17	1	250	X				X					12:44	
	DAD-17	1	250	X				X					12:44	
		1		X				X						
		1		X				X						

Relinquished By: *[Signature]* Date: 9-3-14 Time: 14:25
 Theorsten-Meines
 Received By: *[Signature]* Date: 9-3-14 Time: 14:25
 MRL
 Relinquished By: *[Signature]* Date: 9-3-14 Time: 16:30
 Received at Laboratory By: *[Signature]* Date: 9-3-14 Time: 14:25
 MRL
 Date: 9-3-14 Time: 14:25

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										

Remarks: *ON ICE*
TICU Analysis in labbook
Carry In
 Dry Weight Basis Required
 TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-01 Date Gauged 8-18-14
 Site GONZALEZ Time Gauged 12:35
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 17.37 feet Height of Fluid Column 7.9 feet
 Total Depth 25.27 feet Volume in Well 5.24 gallons
 (3 Well Volumes = 15.64 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:41 8-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:04	9	9	21.7	6173	7.52	145	4963
13:06	1	10	21.4	6127	7.43	150	4941
13:08	1	11	20.8	6147	7.44	152	4938
13:10	1	12	20.7	6130	7.39	153	4933
13:13	1	13	20.7	6150	7.37	154	4956
13:15	1	14	20.5	6148	7.33	156	4950
13:17	1	15	20.3	6143	7.31	158	4948
13:19	.75	15.75	20.4	6141	7.29	157	4944

Actual Purge Volume 15.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:19 8-18-14 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 177-02 Date Gauged 8-18-14
 Site GONZALEZ Time Gauged 13:32
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 18.23 feet Height of Fluid Column 7.07 feet
 Total Depth 25.30 feet Volume in Well 4.6662 gallons
 (3 Well Volumes = 13.99 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:37 8-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:53	7	7	22.3	4641	7.48	153	3634
13:55	1	8	21.9	4645	7.46	154	3648
13:57	1	9	21.6	4649	7.43	155	3646
13:59	1	10		4648	7.39	155	3648
14:02	1	11		4647	7.35	156	3250
14:04	1	12		4649	7.33	157	3643
14:06	1	13		4651	7.32	152	3647
14:08	1	14		4652	7.30	155	3644

Actual Purge Volume 14 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 14:08 8-18-14 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 177-03 Date Gauged 8-19-14
 Site GONZALEZ Time Gauged 10:18
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 20.53 feet Height of Fluid Column 14.65 feet
 Total Depth 35.18 feet Volume in Well 9.669 gallons
 (3 Well Volumes = 29 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:23 8-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:58	22	22	22.8	4556	6.73	169	3574
11:01	1	23	22.9	4551	6.66	166	3567
11:03	1	24	23.1	4534	6.64	162	3553
11:05	1	25	22.9	4526	6.60	164	3545
11:08	1	26	23.1	4525	6.54	164	3544
11:10	1	27	23.1	4524	6.51	167	3543
11:12	1	28	23.2	4521	6.49	169	3543
11:14	1	29	23.3	4518	6.47	170	3538

Actual Purge Volume 29 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:14 8-19-14 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 177-04 Date Gauged 8-19-14
 Site GONZALEZ Time Gauged 8:41
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 24.56 feet Height of Fluid Column 21.67 feet
 Total Depth 46.23 feet Volume in Well 14.3022 gallons
 (3 Well Volumes = 42.9 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:47 8-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:50	36	36	20.9	6011	6.93	168	4835
9:53	1	37	20.8	6009	6.85	171	4834
9:56	1	38	20.7	6004	6.82	173	4830
9:59	1	39	20.7	6006	6.78	175	4831
10:01	1	40	20.5	6005	6.76	176	4829
10:03	1	41	20.3	6002	6.73	176	4827
10:06	1	42	20.2	6005	6.71	177	4830
10:10	1	43	20.2	6005	6.68	178	4831

Actual Purge Volume 43 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:10 8-19-14 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 8-19-14
 Site GONZALEZ Time Gauged 7:25
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 36.73 feet Height of Fluid Column 12.07 feet
 Total Depth 48.8 feet Volume in Well 7.9662 gallons
 (3 Well Volumes = 23.89 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:32 8-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
8:12	17	17	20.8	7325	7.60	199	5997
8:15	1	18	20.6	7332	7.37	203	6011
8:19	1	19	20.6	7341	7.25	205	6017
8:22	1	20	20.5	7337	7.12	207	6015
8:25	1	21	20.3	7332	7.05	206	6001
8:28	1	22	20.2	7307	6.98	206	5987
8:32	1	23	20.1	7297	6.94	207	5978
8:34	1	24	20.1	7294	6.86	205	5976

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

Time/Date Sampled 8:34 8-19-14 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 177-06 Date Gauged 8-18-14

Site GONZALEZ Time Gauged 13:25

Depth to PSH _____ feet Well Diameter 4 inches

Depth to Water 0 feet Height of Fluid Column _____ feet

Total Depth 51.7 feet Volume in Well _____ 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 THE WELL IS DRY.

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID' 177-07R Date Gauged 8-19-14
 Site CONZALEZ Time Gauged 11:22

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 45.52 feet Height of Fluid Column 8.6 feet
 Total Depth 54.12 feet Volume in Well 5.676 gallons

(3 Well Volumes = 17 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:27 8-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:44	10	10	21.5	5023	7.06	176	3965
11:46	1	11	21.6	5037	6.98	179	3985
11:48	1	12	21.2	5032	6.97	180	3983
11:51	1	13	21.3	5068	6.95	181	3960
11:54	1	14	21.1	5016	6.94	182	3965
11:57	1	15	21.2	5017	6.90	182	3968
12:00	1	16	21.2	5015	6.90	183	3964
12:02	1	17	21.1	5019	6.89	181	3969

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

Time/Date Sampled 12:02 8-19-14 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 126-04 Date Gauged 8-18-14

Site ORGAN Time Gauged 10:40

Depth to PSH _____ feet Well Diameter 2 inches

Depth to Water 35.60 feet Height of Fluid Column 2.55 feet

Total Depth 38.15 feet Volume in Well .4335 gallons

(3 Well Volumes = 1.3 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:45 8-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:48	1	1	21.8	3763	6.87	111	2892
10:49	.25	1.25	21.6	3733	6.82	115	2868

Actual Purge Volume 1.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:49 8-18-14 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 8-18-14

Site ORGAN Time Gauged 11:15

Depth to PSH _____ feet Well Diameter 2 inches

Depth to Water 27.87 feet Height of Fluid Column 3.63 feet

Total Depth 31.5 feet Volume in Well .6171 gallons

(3 Well Volumes = 1.85 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:22 8-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:25	1	1	20.6	4646	7.43	140	3646
11:27	.75	1.75	20.5	4671	7.36	141	3668

Actual Purge Volume 1.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:27 8-18-14 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 126-07 Date Gauged 8-18-14
 Site ORGAN Time Gauged 9:47
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 36.21 feet Height of Fluid Column 2.89 feet
 Total Depth 39.1 feet Volume in Well .4913 gallons
 (3 Well Volumes = 1.4739 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:51 8-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>9:53</u>		<u>1</u>	<u>22.3</u>	<u>3111</u>	<u>7.04</u>	<u>31</u>	<u>2850</u>
<u>9:54</u>		<u>1.50</u>	<u>22.1</u>	<u>3716</u>	<u>7.08</u>	<u>33</u>	<u>2855</u>

Actual Purge Volume 1.50 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 9:54 8-18-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-09 Date Gauged 8-18-14
 Site ORGAN DAIRY Time Gauged 8:53

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 78.11 feet Height of Fluid Column 4.44 feet
 Total Depth 82.55 feet Volume in Well .7548 gallons
 (3 Well Volumes = 2.26 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:01 8-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:04	1	1	23.4	4251	7.48	223	3312
9:07	1	2	23.2	4218	7.38	224	3282
9:08	.25	2.25	23.1	4188	7.26	225	3256

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

Time/Date Sampled 9:08 8-18-14 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 126-12 Date Gauged 8-18-14
 Site ORGAN Time Gauged 11:40
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 29.37 feet Height of Fluid Column 6.53 feet
 Total Depth 29.9 feet Volume in Well 4.3098 gallons
 (3 Well Volumes = 12.92 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:45 8-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:01	6	6	20.6	3393	7.65	123	2589
12:03	1	7	20.6	3379	7.54	129	2577
12:06	1	8	20.4	3387	7.46	133	2579
12:08	1	9	20.4	3384	7.40	136	2576
12:10	1	10	20.3	3382	7.37	139	2573
12:12	1	11	20.2	3385	7.35	141	2576
12:15	1	12	20.0	3388	7.34	146	2578
12:17	1	13	20.1	3386	7.31	149	2581

Actual Purge Volume 13 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:17 8-18-14 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 8-18-14
 Site ORGAN Time Gauged 10:04
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 42.8 feet Height of Fluid Column 15.91 feet
 Total Depth 58.71 feet Volume in Well 2.7047 gallons
 (3 Well Volumes = 8.11 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:11 8-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:14	1	1	22.5	4682	6.94	34	3673
10:17	1	2	22.4	4708	6.87	49	3701
10:19	1	3	22.2	4700	6.82	58	3694
10:22	1	4	22.1	4695	6.77	65	3692
10:24	1	5	21.8	4702	6.73	71	3698
10:27	1	6	21.7	4701	6.69	78	3693
10:30	1	7	21.7	4698	6.66	82	3695
10:33	1	8	21.7	4702	6.62	86	3694

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

Time/Date Sampled 10:33 8-18-14 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

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

TraceAnalysis, Inc.

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

Company Name:

Phone #: 915-859-8150

D&H Petroleum & Environmental Services

Cell #:

Address: (Street, City, Zip)

Fax #: vavala@dhpump.com
E-mail:

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 870

Project #:

Project Name:

441973

Organ Dairy

Project Location (including state):

Sampler Signature: *JVK*

Organ Dairy, 12560 Stern Drive, Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
126-4		1	500 mL	X				X	X	X	X		8-18-14	10:49
126-4		1	500 mL	X				X	X	X	X			10:49
126-5		1	500 mL	X				X	X	X	X			11:27
126-5		1	500 mL	X				X	X	X	X			11:27
126-7		1	500 mL	X				X	X	X	X			9:54
126-7		1	500 mL	X				X	X	X	X			9:54
126-9		1	500 mL	X				X	X	X	X			9:08
126-9		1	500 mL	X				X	X	X	X			9:08
126-12		1	500 mL	X				X	X	X	X			12:17
126-12		1	500 mL	X				X	X	X	X			12:17
126-13		1	500 mL	X				X	X	X	X			10:33
126-13		1	500 mL	X				X	X	X	X			10:33
126 Lagoon		1	500 mL	X				X	X	X	X			9:35
126 Lagoon		1	500 mL	X				X	X	X	X			9:35

Relinquished By: *JVK* Date: 8-18-14 Time: 14:30

Received By: *[Signature]* Date: 8-18-14 Time: 14:30

Relinquished By: *[Signature]* Date: 8-18-14 Time: 14:30

Received at Laboratory By: *[Signature]* Date: 8-18-14 Time: 14:30

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

Lab Use Only
Intact Y N
Headspace Y N
Temp *22.0 C*
Log-in Review

Remarks:
Area CA 11 g/L
Dry Weight Basis Required
TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-01 Date Gauged 9-4-14
 Site RIVER VALLEY Time Gauged 9:40

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 18.51 feet Height of Fluid Column _____ feet
 Total Depth 167.07 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 GAUGE ONLY.

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-01A Date Gauged 9-4-14
 Site RIVER VALLEY Time Gauged _____
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 18.37 feet Height of Fluid Column 6.74 feet
 Total Depth 25.11 feet Volume in Well 1.1458 gallons
 (3 Well Volumes = 3.43 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:23 9-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:26	1	1	20.9	4276	7.87	73	3337
10:29	1	2	20.4	4317	7.78	76	3361
10:31	1	3	20.3	4333	7.73	79	3380
10:33	.5	3.5	20.1	4317	7.68	81	3368

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

Time/Date Sampled 10:33 9-4-14 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 9-4-14
 Site RIVER VALLEY Time Gauged 11:25
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 19.36 feet Height of Fluid Column .6 feet
 Total Depth 19.96 feet Volume in Well .102 gallons
 (3 Well Volumes = .306 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:32 9-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:45	.25	.25	23.1	2455	7.99	-89	1834

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

Time/Date Sampled 11:45 9-4-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations THERE WAS NOT MUCH, I HAD TO WAIT AND LET

RECHARGE.

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 9-4-14
 Site RIVER VALLEY Time Gauged 13:11

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 24.83 feet Height of Fluid Column 16.02 feet
 Total Depth 40.85 feet Volume in Well 10.5732 gallons
 (3 Well Volumes = 31 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:14 9-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:45	24	24	23.0	3495	7.66	144	2676
13:47	1	25		3509	7.48	145	2681
13:49	1	26		3519	7.43	147	2688
13:50	1	27		3516	7.41	148	2689
13:52	1	28		3514	7.37	149	2687
13:54	1	29		3511	7.31	148	2679
13:56	1	30		3510	7.28	146	2675
13:58	1	31	21.1	3504	7.24	145	2671

Actual Purge Volume 31 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:58 9-4-14 Purged/Sampled By SV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-04 Date Gauged 9-4-14
 Site RIVER VALLEY Time Gauged 12:50
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 26.95 feet Height of Fluid Column 3.22 feet
 Total Depth 30.17 feet Volume in Well .5474 gallons
 (3 Well Volumes = 1.64 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:59 9-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:03	1	1	22.1	5522	7.81	129	4416
13:05	.75	1 1.75	21.8	5475	7.72	131	4374

Actual Purge Volume 1.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:05 9-4-14 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 167-05 Date Gauged 9-3-14
 Site RIVER VALLEY Time Gauged 9 13:18

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 15.97 feet Height of Fluid Column 5.53 feet
 Total Depth 21.5 feet Volume in Well .9401 gallons
 (3 Well Volumes = 2.82 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:23 9-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:26	1	1	20.1	4800	7.16	151	3776
13:29	1	2	20.0	4747	7.33	162	3736
13:30	.25	2.75	19.8	4762	7.27	165	3747

Actual Purge Volume 2.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:30 9-3-14 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 167-06 Date Gauged 9-4-14
 Site RIVER VALLEY Time Gauged 9:20

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 32.1 feet Height of Fluid Column 3.55 feet
 Total Depth 35.67 feet Volume in Well .6035 gallons
 (3 Well Volumes = 1.8 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:26 9-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:28	1	1	22.3	4178	8.30	209	3250
9:30	1	2	21.8	4147	7.82	214	3226

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

Time/Date Sampled 9:30 9-4-14 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 167-07 Date Gauged 9-4-14
 Site RIVER VALLEY Time Gauged 9:49

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 18:47 feet Height of Fluid Column 6.47 feet
 Total Depth 24.94 feet Volume in Well 1.0999 gallons
 (3 Well Volumes = 3.29 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:00 9-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:03	1	1	20.2	7509	7.71	-150	6178
10:06	1	2	20.2	7503	7.36	-159	6170
10:09	1	3	20.0	7433	7.28	-157	6109
10:10	.25	3.25	20.0	7259	7.23	-160	5944

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

Time/Date Sampled 10:10 9-4-14 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 9-4-14
 Site _____ Time Gauged 12:07
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 18.40 feet Height of Fluid Column 12.41 feet
 Total Depth 30.89 feet Volume in Well 2.1097 gallons
 (3 Well Volumes = 6.32 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:12 9-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:16	1	1	20.9	4284	7.64	97	3337
12:20	1	2	20.6	4311	7.61	97	3355
12:24	1	3	20.5	4333	7.56	98	3378
12:28	1	4	20.4	4340	7.49	98	3382
12:32	1	5	20.2	4345	7.45	98	3386
12:37	1	6	20.1	4346	7.37	99	3388
12:39	1.5	6.5	20.0	4347	7.33	97	3389

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

Time/Date Sampled 12:39 9-4-14 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 167-09 Date Gauged 9-3-14
 Site RIVER VALLEY Time Gauged 13:00

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 16.94 feet Height of Fluid Column 2.85 feet
 Total Depth 19.79 feet Volume in Well .4845 gallons
 (3 Well Volumes = 1.45 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:06 9-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
13:08	1	1	19.7	4439	7.05	193	3456
13:09	.5	1.5	19.1	4494	7.04	197	3515

Actual Purge Volume 1.5 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:09 9-3-14 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

LAB Order ID # _____

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

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
167-01	08	1	250	X				X				9-4-14	12:39
167-02	08	1	250	X				X					12:39
167-01A		1	250	X				X					10:33
167-01A		1	250	X				X					10:33
167-02		1	250	X				X					11:45
167-02		1	250	X				X					11:45
167-03		1	250	X				X					13:56
167-03		1	250	X				X					13:56
167-04		1	250	X				X					13:05
167-04		1	250	X				X					13:05
167-05	LAG60N	1	250	X				X					10:51
167-06	LAG60N	1	250	X				X					10:51
167-06		1	250	X				X					9:30
167-06		1	250	X				X					9:30
167-07		1	250	X				X					10:10
167-07		1	250	X				X					10:10

Relinquished By: *JVS* Date: 9-4-14 Time: 14:15
 Received at Laboratory By: *[Signature]* Date: 9-4-14 Time: 14:15
 Relinquished By: *[Signature]* Date: 9-4-14 Time: 16:20
 Received at Laboratory By: *[Signature]* Date: 9-4-14 Time: 14:15

Lab Use Only
 Intact /
 Headspace /
 Temp /
 Log-in Review

Remarks: *87122*
 Dry Weight Basis Required
 TRRP Report Required

CARRY IN

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 Name: _____
 River Valley Dairy, LLC
 Sampler Signature: *[Signature]*

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

Bruce Bonestroo 575-233-2061
 Project Name: _____
 River Valley Dairy, LLC
 Sampler Signature: *[Signature]*

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 #: 449042
 Project Location (including state): _____
 River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

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

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

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

D&H Petroleum & Environmental Services
 Address: (Street, City, Zip)
 1221 Tower Trail Ln, El Paso TX 79907
 Contact Person: Victor Ayala

Project #: 449042
 Project Name: River Valley Dairy, LLC
 Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM
 Invoice to (if different from above): Bruce Bonestroo 575-233-2061
 River Valley Dairy, PO Box 1929, Anthony, NM 88021
 Sampler Signature: *July*

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					DATE	SAMPLING TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE		
		1	250	X				X						9-3-14 13:09
		1	250	X				X						9-3-14 13:09
	167-09		250	X				X						9-3-14 13:09
	167-09		250	X				X						9-3-14 13:09
	167-05		250	X				X						9-3-14 13:31
	167-05		250	X				X						9-3-14 13:31

Page 1 of 1
 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	Other - Phosphorus (EPA 6010B)
								X	X	X	X	X

Remarks: *ON IDe*
TRN analysis in labbook
Carry In.
 Lab Use Only
 Intad *YIN*
 Headspace *YIN*
 Temp *10*
 Log-in Review
 Dry Weight Basis Required
 TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-01 Date Gauged 8-25-14
 Site SUNSET / DESERT Time Gauged 11:26
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 22.37 feet Height of Fluid Column 3.48 feet
 Total Depth 25.85 feet Volume in Well 5916 gallons
 (3 Well Volumes = 1.77 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:32 8-25-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:34	1	1	20.4	5097	7.80	29	4033
11:34 11:36	.75	1.75	20.3	5036	7.55	62	3981

Actual Purge Volume 1.75 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 11:36 8-25-14 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

11:26

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-02 Date Gauged 8-25-14
 Site SUNSET/DESERT Time Gauged 11:43

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 16.41 feet Height of Fluid Column 4.31 feet
 Total Depth 20.72 feet Volume in Well .7327 gallons
 (3 Well Volumes = 2.19 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:47 8-25-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:49	1	1	20.6	3716	7.51	119	2852
11:51	1	2	20.5	3647 3647	7.37	133	2793
11:52	.25	2.25	20.4	3679	7.11	136	2823

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

Time/Date Sampled 11:52 8-25-14 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 8-25-14
 Site SUNSET / DESERT Time Gauged 12:01
 Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 12.39 feet Height of Fluid Column 1.35 feet
 Total Depth 13.74 feet Volume in Well .2295 gallons
 (3 Well Volumes = .6885 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:07 8-25-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:09	.75	.75	21.7	3152	7.28	151	2388

Actual Purge Volume .75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:09 8-25-14 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 257/260-01 Date Gauged 8-25-14
 Site SUNSET/DESERT Time Gauged 12:19
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 13.34 feet Height of Fluid Column 7 feet
 Total Depth 26.24 feet Volume in Well 4.62 gallons
 (3 Well Volumes = 13.86 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:28 8-25-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:44	7	7	20.2	3847	7.31	145	2953
12:46	1	8	20.0	3811	7.11	144	2926
12:48	1	9	20.1	3727	6.99	145	2855
12:50	1	10	19.8	3700	7.04	146	2839
12:52	1	11	19.8	3670	7.05	146	2816
12:54	1	12	19.9	3643	7.04	147	2792
12:56	1	13	19.7	3637	7.03	148	2785
12:58	1	14	19.6	3629	7.01	149	2779

Actual Purge Volume 14 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:58 8-25-14 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.
 Lubbock, TX 79424
 Tel (806) 794-1286
 Fax (806) 794-1298

TraceAnalysis, Inc.

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

Phone #: 915-859-8150
 Cell #:
 Fax #:
 E-mail: valiala@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):
 Sunset Dairy, PO Box 10, Mesquite, NM 88048

Project Name:
 Sunset Dairy

Sampler Signature: *gms*

Project Location (including state):
 Sunset Dairy, 1790

Project #: 441982

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
	257-02	1	250	X				X						8-25-14	11:05L
	257-02	1	250	X				X						11:05L	11:05L
	257-01	1	250	X				X						11:30	11:30
	257-01	1	250	X				X						11:30	11:30
	257-03	1	250	X				X						12:09	12:09
	257-03	1	250	X				X						12:09	12:09
	257/260-01	1	250	X				X						12:58	12:58
	257/260-01	1	250	X				X						12:58	12:58
	257 Lagoon	1	250	X				X						11:20	11:20
	257 Lagoon	1	250	X				X						11:20	11:20
			250												

Relinquished By: *gms* Date: 8-25-14 Time: 14:08
 Received By: *D-2 dhl* Date: 8-25-14 Time: 14:08
 Relinquished By: *Dy dhl* Date: 8-25-14 Time: 16:30
 Received at Laboratory By: Date: Time:

Lab Use Only
 Intact Y N
 Headspace Y / N
 Temp 12-1 3/2
 Log-in Review

Remarks: 2
 Dry Weight Basis Required
 TRRP Report Required

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
Other - Phosphorus (EPA 6010B)	
Turn Around Time	
Hold	

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

Linda Armstrong
Bright Star Dairy
13520 Stern Dr.
P.O. Box 167
Mesquite, NM, 88048

Report Date: August 27, 2014

Work Order: 14081527



Project Location: 13520 Stern Drive, Mesquite, NM
Project Name: Bright Star Dairy
Project Number: 441980

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
371958	340-1	water	2014-08-15	11:28	2014-08-15
371959	340-2	water	2014-08-15	12:08	2014-08-15
371960	70/86/340	water	2014-08-15	10:48	2014-08-15
371961	86/340	water	2014-08-15	09:32	2014-08-15
371962	340 Lagoon	water	2014-08-15	11:40	2014-08-15

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 23 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2014-08-15 and assigned to work order 14081527. Samples for work order 14081527 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	96964	2014-08-15 at 18:48	114661	2014-08-15 at 18:48
NO3 (IC)	E 300.0	96964	2014-08-15 at 18:48	114661	2014-08-15 at 18:48
TDS	SM 2540C	97049	2014-08-20 at 13:40	114762	2014-08-20 at 13:40
TKN	SM 4500-NH3 B,C	97200	2014-08-26 at 09:40	114939	2014-08-26 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 14081527 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: 371958 - 340-1

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	383	383	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 371958 - 340-1

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	37.9	37.9	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 371958 - 340-1

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2800	2800	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 371958 - 340-1

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Report Date: August 27, 2014
441980

Work Order: 14081527
Bright Star Dairy

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13520 Stern Drive, Mesquite, NM

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 371959 - 340-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	772	772	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 371959 - 340-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	84.4	84.4	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 371959 - 340-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	3420	3420	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 371959 - 340-2

Report Date: August 27, 2014
441980

Work Order: 14081527
Bright Star Dairy

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13520 Stern Drive, Mesquite, NM

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 371960 - 70/86/340

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	1730	1730	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 371960 - 70/86/340

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	15.3	15.3	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 371960 - 70/86/340

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

continued ...

sample 371960 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	5780	5780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 371960 - 70/86/340

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 371961 - 86/340

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	400	400	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 371961 - 86/340

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Report Date: August 27, 2014
441980

Work Order: 14081527
Bright Star Dairy

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13520 Stern Drive, Mesquite, NM

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	11.6	11.6	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 371961 - 86/340

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	2300	2300	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 371961 - 86/340

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		U 2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 371962 - 340 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	1090	1090	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 371962 - 340 Lagoon

Report Date: August 27, 2014
441980

Work Order: 14081527
Bright Star Dairy

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13520 Stern Drive, Mesquite, NM

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	3.41	3.41	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 371962 - 340 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	7980	7980	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 371962 - 340 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	161	161	<18.0	mg/L	10	18.0	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114661
Prep Batch: 96964

Date Analyzed: 2014-08-15
QC Preparation: 2014-08-15

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 114661
Prep Batch: 96964

Date Analyzed: 2014-08-15
QC Preparation: 2014-08-15

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114762
Prep Batch: 97049

Date Analyzed: 2014-08-20
QC Preparation: 2014-08-20

Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 114939
Prep Batch: 97200

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: CF
Prepared By: CF

Report Date: August 27, 2014
441980

Work Order: 14081527
Bright Star Dairy

Page Number: 12 of 23
13520 Stern Drive, Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372160

QC Batch: 114762
Prep Batch: 97049

Date Analyzed: 2014-08-20
QC Preparation: 2014-08-20

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2920	2840	mg/L	1	3	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114661
Prep Batch: 96964

Date Analyzed: 2014-08-15
QC Preparation: 2014-08-15

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	23.8	mg/L	1	25.0	<0.00680	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	23.8	mg/L	1	25.0	<0.00680	95	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: 114661
Prep Batch: 96964

Date Analyzed: 2014-08-15
QC Preparation: 2014-08-15

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.70	mg/L	1	5.00	<0.0251	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.70	mg/L	1	5.00	<0.0251	94	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: 114762
Prep Batch: 97049

Date Analyzed: 2014-08-20
QC Preparation: 2014-08-20

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	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.

Report Date: August 27, 2014
441980

Work Order: 14081527
Bright Star Dairy

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Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	999	mg/L	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: 114939
Prep Batch: 97200

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 371961

QC Batch: 114661
Prep Batch: 96964

Date Analyzed: 2014-08-15
QC Preparation: 2014-08-15

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	1750	mg/L	55.6	1390	400	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	1740	mg/L	55.6	1390	400	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: 371961

QC Batch: 114661
Prep Batch: 96964

Date Analyzed: 2014-08-15
QC Preparation: 2014-08-15

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	274	mg/L	55.6	278	11.6	94	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	272	mg/L	55.6	278	11.6	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: 372161

QC Batch: 114939
Prep Batch: 97200

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: August 27, 2014
441980

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Bright Star Dairy

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Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	72.1 - 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: 114661

Date Analyzed: 2014-08-15

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	23.5	94	90 - 110	2014-08-15

Standard (CCV-1)

QC Batch: 114661

Date Analyzed: 2014-08-15

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.69	94	90 - 110	2014-08-15

Standard (CCV-2)

QC Batch: 114661

Date Analyzed: 2014-08-15

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	23.7	95	90 - 110	2014-08-15

Standard (CCV-2)

QC Batch: 114661

Date Analyzed: 2014-08-15

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.68	94	90 - 110	2014-08-15

Report Date: August 27, 2014
441980

Work Order: 14081527
Bright Star Dairy

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13520 Stern Drive, Mesquite, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-08-26

Standard (CCV-1)

QC Batch: 114939

Date Analyzed: 2014-08-26

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-08-26

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2013-083	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

F Description

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

14081527

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Lubbock, TX 79424
Tel (806) 794-1296
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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 #:
Fax #:
E-mail: yavala@dhpump.com

Project #: 441980
Project Name: Bright Star Dairy

Project Location (including state):
Bright Star Dairy, P.O. Box 167, Mesquite, NM 88048

Sampler Signature: *JNV*

Volume/Amount

Containers

Field Code

MATRIX

WATER

AIR

SLUDGE

METHOD

HCl

HNO₃

H₂SO₄

NaOH

ICE

NONE

DATE

TIME

37198-1 340-1 1 250 X

1958-2 340-1 1 500 X

37199-1 340-2 1 250 X

1959-2 340-2 1 500 X

37190-1 70/86/340 1 250 X

1960-2 70/86/340 1 500 X

37196-1 86/340 1 250 X

1961-2 86/340 1 500 X

37190-1 340 Lagoon 1 250 X

1962-2 340 Lagoon 1 500 X

155 McCutcheon, Ste. H

Paso, TX 79832
Tel (915) 585-3443
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Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 14081527

ANALYSIS REQUEST

TPH 418.1 / TX1005

BTEX 8021B/602

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

Other - Phosphorus (EPA 6010B)

Turn Around Time

Hold

Relinquished By: *JNV* Date: 8-15-14 Time: 12:46

Received By: *MJC* Date: 8/15/14 Time: 12:46

Relinquished By: *MJC* Date: 8-15-14 Time: 16:30

Received at Laboratory By: *JNV* Date: 8/15/14 Time: 7:55

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

Relinquished By: *MJC* Date: 8-15-14 Time: 16:30

Received at Laboratory By: *JNV* Date: 8/15/14 Time: 7:55

Remarks: *On Ice
Quat extend 500 ml for ana from
But labeled bottles w/ H2S14-Kab
Preservative. Should be 250 - non +
500 ml w/ Preserv.
Dry Weight Basis Required
TRRP Report Required
8/15/14
10
MJC - 8-15-14*



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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 (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: August 27, 2014

Work Order: 14081828



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
372165	177-01	water	2014-08-18	13:19	2014-08-18
372166	177-02	water	2014-08-18	14:08	2014-08-18

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Dr. Blair Leftwich, Director
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project Gonzalez Farmes were received by TraceAnalysis, Inc. on 2014-08-18 and assigned to work order 14081828. Samples for work order 14081828 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	97077	2014-08-18 at 19:17	114793	2014-08-18 at 19:17
NO3 (IC)	E 300.0	97077	2014-08-18 at 19:17	114793	2014-08-18 at 19:17
TDS	SM 2540C	97085	2014-08-21 at 13:30	114803	2014-08-21 at 13:30
TKN	SM 4500-NH3 B,C	97209	2014-08-26 at 09:40	114949	2014-08-26 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 14081828 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: 372165 - 177-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1100	1100	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372165 - 177-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	30.5	30.5	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372165 - 177-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114803 Date Analyzed: 2014-08-21 Analyzed By: MC
 Prep Batch: 97085 Sample Preparation: 2014-08-21 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3780	3780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372165 - 177-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114949 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97209 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	2.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372166 - 177-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	864	864	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372166 - 177-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	17.1	17.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372166 - 177-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114803 Date Analyzed: 2014-08-21 Analyzed By: MC
 Prep Batch: 97085 Sample Preparation: 2014-08-21 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2810	2810	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372166 - 177-02

Report Date: August 27, 2014

Work Order: 14081828
Gonzalez Farmes

Page Number: 6 of 19
14310 Stern Dr., Mesquite, NM

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 114949 Date Analyzed: 2014-08-26 Analyzed By: CF
Prep Batch: 97209 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114803
Prep Batch: 97085Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 114949
Prep Batch: 97209Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26Analyzed By: CF
Prepared By: CF

Report Date: August 27, 2014

Work Order: 14081828
Gonzalez Farmes

Page Number: 8 of 19
14310 Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372166

QC Batch: 114803
Prep Batch: 97085

Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2860	2810	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	23.9	mg/L	1	25.0	<0.00680	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	23.8	mg/L	1	25.0	<0.00680	95	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: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.74	mg/L	1	5.00	<0.0251	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.73	mg/L	1	5.00	<0.0251	95	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: 114803
Prep Batch: 97085Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	999	mg/L	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	997	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: 114949
Prep Batch: 97209

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 372161QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1,4,5	1900	mg/L	62.5	1560	384	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			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1,4,5	1900	mg/L	62.5	1560	384	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: 372161QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1,4,5	315	mg/L	62.5	312	16.5	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			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1,4,5	314	mg/L	62.5	312	16.5	95	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: 372166QC Batch: 114949
Prep Batch: 97209Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26Analyzed By: CF
Prepared By: CF

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 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: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.6	94	90 - 110	2014-08-18

Standard (CCV-2)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.69	94	90 - 110	2014-08-18

Standard (CCV-3)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.7	95	90 - 110	2014-08-18

Standard (CCV-3)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.71	94	90 - 110	2014-08-18

Standard (CCV-4)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.8	95	90 - 110	2014-08-18

Standard (CCV-4)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.73	95	90 - 110	2014-08-18

Standard (CCV-5)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.9	96	90 - 110	2014-08-18

Standard (CCV-5)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.74	95	90 - 110	2014-08-18

Standard (ICV-1)

QC Batch: 114949

Date Analyzed: 2014-08-26

Analyzed By: CF

Report Date: August 27, 2014

Work Order: 14081828
Gonzalez Farmes

Page Number: 16 of 19
14310 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		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-08-26

Standard (CCV-1)

QC Batch: 114949

Date Analyzed: 2014-08-26

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-08-26

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2013-083	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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Project Name: JOE GONZALEZ 575-233-4801

Project Name: (if different from above) 14310 STERN DR, MESQUITE, NM, PO Box 119

Project #: 441972

Project Location (including state): GONZALEZ DAIRY, 13600 STERN DR, MESQUITE, NM

Sampler Signature: GONZALEZ DAIRY

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE
372165	177-01	1	1500	X				X				8-18	13:19
↓ -2	177-01	1	1500	X				X				↓	13:19
372166	177-02	1	2500	X				X				↓	14:08
↓ -2	177-02	1	5000	X				X				↓	14:08

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 ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity	Na, Ca, Mg, K, TDS, EC	NITRATE EPA 300	TKN SM 4500 NORG C	CHLORIDE EPA 300.0	TOTAL DISSOLVED SOLIDS SM 2540	Turn Around Time if different from standard	
																				X	X	X	X	

ANALYSIS REQUEST (Circle or Specify Method No.)

REMARKS:

LAB USE ONLY

Initials: DN

Headspace: Y / N / NA

INST: 2 / OBS: 2 / COR: 2

Time: 8-18-14 14:30

Company: TraceAnalysis

Received by: [Signature]

INST: 1 / OBS: 1 / COR: 1

Time: 8-18-14 16:36

Company: TraceAnalysis

Received by: [Signature]

INST: 3 / OBS: 3 / COR: 3

Time: 8-19-14 9:00

Company: TraceAnalysis

Received by: [Signature]

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

Carrier # Car 7th CSO 48891782

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

ORIGINAL COPY



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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: August 29, 2014

Work Order: 14081930



Project Location: Gonzalez Farmes 14310 Stern Dr. Mesquite, NM
 Project Name: Gonzalez Dairy Inc.
 Project Number: 435915

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
372231	177-03	water	2014-08-19	11:14	2014-08-19
372232	177-04	water	2014-08-19	10:10	2014-08-19
372233	177-05	water	2014-08-19	08:34	2014-08-19
372234	177-07 R	water	2014-08-19	12:02	2014-08-19

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Gonzalez Dairy Inc. were received by TraceAnalysis, Inc. on 2014-08-19 and assigned to work order 14081930. Samples for work order 14081930 were received intact at a temperature of 3.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	97078	2014-08-19 at 21:03	114794	2014-08-19 at 09:03
NO3 (IC)	E 300.0	97078	2014-08-19 at 21:03	114794	2014-08-19 at 09:03
TDS	SM 2540C	97131	2014-08-22 at 13:30	114861	2014-08-22 at 13:30
TKN	SM 4500-NH3 B,C	97281	2014-08-28 at 11:40	115037	2014-08-28 at 15:20

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 14081930 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: 372231 - 177-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
 Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	859	859	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372231 - 177-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
 Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	10.9	10.9	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372231 - 177-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114861 Date Analyzed: 2014-08-22 Analyzed By: MC
 Prep Batch: 97131 Sample Preparation: 2014-08-22 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2720	2720	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372231 - 177-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115037 Date Analyzed: 2014-08-28 Analyzed By: CF
 Prep Batch: 97281 Sample Preparation: 2014-08-28 Prepared By: CF

Report Date: August 29, 2014
435915

Work Order: 14081930
Gonzalez Dairy Inc.

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Gonzalez Farmes 14310 Stern Dr. Mesquite, NM

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372232 - 177-04

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1150	1150	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372232 - 177-04

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	18.2	18.2	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372232 - 177-04

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 114861 Date Analyzed: 2014-08-22 Analyzed By: MC
Prep Batch: 97131 Sample Preparation: 2014-08-22 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3830	3830	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372232 - 177-04

Report Date: August 29, 2014
435915

Work Order: 14081930
Gonzalez Dairy Inc.

Page Number: 7 of 20
Gonzalez Farmes 14310 Stern Dr. Mesquite, NM

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 115037 Date Analyzed: 2014-08-28 Analyzed By: CF
Prep Batch: 97281 Sample Preparation: 2014-08-28 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372233 - 177-05

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1680	1680	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372233 - 177-05

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	18.1	18.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372233 - 177-05

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 114861 Date Analyzed: 2014-08-22 Analyzed By: MC
Prep Batch: 97131 Sample Preparation: 2014-08-22 Prepared By: MC

continued . . .

sample 372233 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	4800	4800	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372233 - 177-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115037 Date Analyzed: 2014-08-28 Analyzed By: CF
 Prep Batch: 97281 Sample Preparation: 2014-08-28 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372234 - 177-07 R

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
 Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	980	980	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372234 - 177-07 R

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
 Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Report Date: August 29, 2014
435915

Work Order: 14081930
Gonzalez Dairy Inc.

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	28.2	28.2	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372234 - 177-07 R

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114861 Date Analyzed: 2014-08-22 Analyzed By: MC
 Prep Batch: 97131 Sample Preparation: 2014-08-22 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	3120	3120	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372234 - 177-07 R

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115037 Date Analyzed: 2014-08-28 Analyzed By: CF
 Prep Batch: 97281 Sample Preparation: 2014-08-28 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114794
Prep Batch: 97078

Date Analyzed: 2014-08-19
QC Preparation: 2014-08-19

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 114794
Prep Batch: 97078

Date Analyzed: 2014-08-19
QC Preparation: 2014-08-19

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114861
Prep Batch: 97131

Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22

Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115037
Prep Batch: 97281

Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28

Analyzed By: CF
Prepared By: CF

Report Date: August 29, 2014
435915

Work Order: 14081930
Gonzalez Dairy Inc.

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Gonzalez Farmes 14310 Stern Dr. Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372469

QC Batch: 114861
Prep Batch: 97131

Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	6940	7000	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114794
Prep Batch: 97078

Date Analyzed: 2014-08-19
QC Preparation: 2014-08-19

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.0	mg/L	1	25.0	<0.00680	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.0	mg/L	1	25.0	<0.00680	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: 114794
Prep Batch: 97078

Date Analyzed: 2014-08-19
QC Preparation: 2014-08-19

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.81	mg/L	1	5.00	<0.0251	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.82	mg/L	1	5.00	<0.0251	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: 114861
Prep Batch: 97131

Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	999	mg/L	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.

Report Date: August 29, 2014
435915

Work Order: 14081930
Gonzalez Dairy Inc.

Page Number: 14 of 20
Gonzalez Farmes 14310 Stern Dr. Mesquite, NM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	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: 115037
Prep Batch: 97281

Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	80.7 - 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		2,3,6,7	46.9	mg/L	1	50.0	<1.80	94	80.7 - 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: 372236

QC Batch: 115037
Prep Batch: 97281

Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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		2,3,6,7	46.2	mg/L	1	50.0	<1.80	92	72.1 - 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: 114794

Date Analyzed: 2014-08-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.9	96	90 - 110	2014-08-19

Standard (CCV-1)

QC Batch: 114794

Date Analyzed: 2014-08-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.81	96	90 - 110	2014-08-19

Standard (CCV-2)

QC Batch: 114794

Date Analyzed: 2014-08-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-08-19

Standard (CCV-2)

QC Batch: 114794

Date Analyzed: 2014-08-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.82	96	90 - 110	2014-08-19

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2013-083	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.

14081930

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

TraceAnalysis, Inc.

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

Page 1 of 1
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 14081930

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 #: 441972
Project Name: Joe Gonzalez 575-233-4801
Gonzalez Dairy Inc.
Sampler Signature: *Jvg*

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 ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME	
-	Legion 1	1		X				X								
-	Legion 1	1		X				X								
-	Legion 2	1		X				X								
-	Legion 2	1		X				X								
372731	177-03	1	500	X				X					8-19	11:14		
1-2	177-03	1	250	X				X						11:14		
37	177-04	1	500	X				X						10:10		
1-2	177-04	1	250	X				X						10:10		
B	177-05	1	500	X				X						8:34		
1-2	177-05	1	250	X				X						8:34		
-	Legion 2	1		X				X								
-	Legion 2	1		X				X								
34	177-07 R	1	500	X				X						12:02		
1-2	177-07 R	1	250	X				X						12:02		

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																			
Nitrate EPA 300																			
TKN SM 4500 NORG C																			
Chloride EPA 300																			
Total Dissolved Solids SM 2540 C MOD																			
Turn Around Time																			
Hold																			

Lab Use Only
Intact Y N
Headspace Y N
Temp 124 4/5
Log-in Review
Dry Weight Basis Required
TRRP Report Required

Relinquished By: *Jvg* Date: 8-19-14 Time: 14:37
Received By: *Denny de H.* Date: 8-19-14 Time: 14:37

Relinquished By: *D7 de H. T.A.* Date: 8-19-14 Time: 16:30
Received By: *BC* Date: 8-20-14 Time: 9am

Remarks: *150-712101207 5.4 and 8.11-11-11 / CARRY IN*



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

John DeRuyter
Mountain View Dairy
13090 Stern Drive
P.O. Box 345
Mesquite, NM, 88048

Report Date: September 12, 2014

Work Order: 14082043



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
372467	70-01	water	2014-08-20	08:28	2014-08-20
372468	70-02	water	2014-08-20	09:47	2014-08-20
372469	70-03	water	2014-08-20	10:36	2014-08-20
372470	70-04	water	2014-08-20	08:55	2014-08-20
372471	70 Lagoon	water	2014-08-20	09:13	2014-08-20
372472	North Stormwater Lagoon	water	2014-08-20	09:21	2014-08-20

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 31 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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QC Batch 114843 - CCV (2)	25
QC Batch 114843 - CCV (2)	25
QC Batch 114843 - CCV (2)	25
QC Batch 114843 - CCV (3)	25
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QC Batch 114843 - CCV (4)	26
QC Batch 114843 - CCV (4)	26
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QC Batch 115040 - CCV (1)	27
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Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2014-08-20 and assigned to work order 14082043. Samples for work order 14082043 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	97114	2014-08-21 at 13:42	114843	2014-08-21 at 13:42
NO3 (IC)	E 300.0	97114	2014-08-21 at 13:42	114843	2014-08-21 at 13:42
SO4 (IC)	E 300.0	97114	2014-08-21 at 13:42	114843	2014-08-21 at 13:42
Sulfide	SM 4500-S2 D	97110	2014-08-22 at 10:00	114836	2014-08-22 at 14:20
TDS	SM 2540C	97131	2014-08-22 at 13:30	114861	2014-08-22 at 13:30
TDS	SM 2540C	97137	2014-08-23 at 13:20	114866	2014-08-23 at 13:20
TKN	SM 4500-NH3 B,C	97284	2014-08-28 at 11:40	115040	2014-08-28 at 15:20
TKN	SM 4500-NH3 B,C	97582	2014-09-12 at 16:30	115391	2014-09-11 at 20:10

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 14082043 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: 372467 - 70-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	596	596	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372467 - 70-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	22.5	22.5	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372467 - 70-01

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1,4,5	477	477	<0.530	mg/L	50	0.530	2.5	0.0106

Sample: 372467 - 70-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114861 Date Analyzed: 2014-08-22 Analyzed By: MC
 Prep Batch: 97131 Sample Preparation: 2014-08-22 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Dissolved Solids		1,4,5	2610	2610	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372467 - 70-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115040 Date Analyzed: 2014-08-28 Analyzed By: CF
 Prep Batch: 97284 Sample Preparation: 2014-08-28 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372468 - 70-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Chloride	B	1,4,5	766	766	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372468 - 70-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Nitrate-N		1,4,5	35.8	35.8	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372468 - 70-02

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,5	469	469	<0.106	mg/L	10	0.106	2.5	0.0106

Sample: 372468 - 70-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114861 Date Analyzed: 2014-08-22 Analyzed By: MC
 Prep Batch: 97131 Sample Preparation: 2014-08-22 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	3160	3160	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372468 - 70-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115040 Date Analyzed: 2014-08-28 Analyzed By: CF
 Prep Batch: 97284 Sample Preparation: 2014-08-28 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372469 - 70-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

continued ...

sample 372469 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	B	1,4,5	2590	2590	<0.680	mg/L	100	0.680	2.5	0.0068

Sample: 372469 - 70-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	49.8	49.8	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372469 - 70-03

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,5	1290	1290	<0.530	mg/L	50	0.530	2.5	0.0106

Sample: 372469 - 70-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114861 Date Analyzed: 2014-08-22 Analyzed By: MC
 Prep Batch: 97131 Sample Preparation: 2014-08-22 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	7000	7000	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372469 - 70-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115040 Date Analyzed: 2014-08-28 Analyzed By: CF
 Prep Batch: 97284 Sample Preparation: 2014-08-28 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372470 - 70-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	577	577	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372470 - 70-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	24.4	24.4	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372470 - 70-04

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,5	562	562	<0.530	mg/L	50	0.530	2.5	0.0106

Sample: 372470 - 70-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114866 Date Analyzed: 2014-08-23 Analyzed By: MC
 Prep Batch: 97137 Sample Preparation: 2014-08-23 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2950	2950	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372470 - 70-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115040 Date Analyzed: 2014-08-28 Analyzed By: CF
 Prep Batch: 97284 Sample Preparation: 2014-08-28 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372471 - 70 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	B	1,4,5	1360	1360	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372471 - 70 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	3.34	3.34	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372471 - 70 Lagoon

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1,4,5	26.4	26.4	<0.0530	mg/L	5	0.0530	2.5	0.0106

Sample: 372471 - 70 Lagoon

Laboratory: Lubbock
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A
 QC Batch: 114836 Date Analyzed: 2014-08-22 Analyzed By: CF
 Prep Batch: 97110 Sample Preparation: 2014-08-22 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfide	3	2	0.0479	<0.100	<0.0117	mg/L	1	0.0117	0.1	0.0117

Sample: 372471 - 70 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114866 Date Analyzed: 2014-08-23 Analyzed By: MC
 Prep Batch: 97137 Sample Preparation: 2014-08-23 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	7040	7040	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372471 - 70 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115391 Date Analyzed: 2014-09-11 Analyzed By: CF
 Prep Batch: 97582 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	266	266	<1.80	mg/L	1	1.80	10	1.8

Sample: 372472 - North Stormwater Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	325	325	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 372472 - North Stormwater Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1,4,5	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372472 - North Stormwater Lagoon

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1,4,5	117	117	<0.0530	mg/L	5	0.0530	2.5	0.0106

Sample: 372472 - North Stormwater Lagoon

Laboratory: Lubbock
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A
 QC Batch: 114836 Date Analyzed: 2014-08-22 Analyzed By: CF
 Prep Batch: 97110 Sample Preparation: 2014-08-22 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfide	J	2	0.0822	<0.100	<0.0117	mg/L	1	0.0117	0.1	0.0117

Sample: 372472 - North Stormwater Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114866 Date Analyzed: 2014-08-23 Analyzed By: MC
 Prep Batch: 97137 Sample Preparation: 2014-08-23 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		1,4,5	1760	1760	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372472 - North Stormwater Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115391 Date Analyzed: 2014-09-11 Analyzed By: CF
 Prep Batch: 97582 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	49.0	49.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114836
Prep Batch: 97110Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Sulfide		2	<0.0117	mg/L	0.0117

Method Blank (1)

QC Batch: 114843
Prep Batch: 97114Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,4,5	1.30	mg/L	0.0068

Method Blank (1)

QC Batch: 114843
Prep Batch: 97114Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114843
Prep Batch: 97114Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1,4,5	<0.0106	mg/L	0.0106

Method Blank (1)QC Batch: 114861
Prep Batch: 97131Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)QC Batch: 114866
Prep Batch: 97137Date Analyzed: 2014-08-23
QC Preparation: 2014-08-23Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)QC Batch: 115040
Prep Batch: 97284Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)QC Batch: 115391
Prep Batch: 97582Date Analyzed: 2014-09-11
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372469QC Batch: 114861
Prep Batch: 97131Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	6940	7000	mg/L	1	1	10

Duplicate (1) Duplicated Sample: 372482QC Batch: 114866
Prep Batch: 97137Date Analyzed: 2014-08-23
QC Preparation: 2014-08-23Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	4280	4380	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114836
Prep Batch: 97110Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: CF
Prepared By: CF

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Sulfide		2	0.417	mg/L	1	0.400	<0.0117	104	85 - 115

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.						
Sulfide		2	0.406	mg/L	1	0.400	<0.0117	102	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: 114843
Prep Batch: 97114Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: JR
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1,4,5	24.1	mg/L	1	25.0	<0.00680	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.						
Chloride		1,4,5	24.0	mg/L	1	25.0	<0.00680	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: 114843
Prep Batch: 97114Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: JR
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1,4,5	4.78	mg/L	1	5.00	<0.0251	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
Total Dissolved Solids		1,4,5	999	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. Limit	RPD	RPD Limit	
Total Dissolved Solids		1,4,5	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: 115040
Prep Batch: 97284

Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	80.7 - 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: 115391
Prep Batch: 97582

Date Analyzed: 2014-09-11
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2,3,6,7	46.2	mg/L	1	50.0	<1.80	92	80.7 - 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: 372472QC Batch: 114836
Prep Batch: 97110Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfide		2	0.373	mg/L	1	0.400	<0.0117	93	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		2	0.376	mg/L	1	0.400	<0.0117	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: 372467QC Batch: 115040
Prep Batch: 97284Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 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		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	72.1 - 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: 372587QC Batch: 115391
Prep Batch: 97582Date Analyzed: 2014-09-11
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	48.3	mg/L	1	50.0	<1.80	97	72.1 - 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		2,3,6,7	49.7	mg/L	1	50.0	<1.80	99	72.1 - 120	3	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: 114836

Date Analyzed: 2014-08-22

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.387	97	85 - 115	2014-08-22

Standard (CCV-1)

QC Batch: 114836

Date Analyzed: 2014-08-22

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide		2	mg/L	0.400	0.404	101	85 - 115	2014-08-22

Standard (CCV-1)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.8	95	90 - 110	2014-08-21

Standard (CCV-1)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.77	95	90 - 110	2014-08-21

Standard (CCV-1)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,5	mg/L	25.0	23.9	96	90 - 110	2014-08-21

Standard (CCV-2)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.8	95	90 - 110	2014-08-21

Standard (CCV-2)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.78	96	90 - 110	2014-08-21

Standard (CCV-2)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,5	mg/L	25.0	23.9	96	90 - 110	2014-08-21

Standard (CCV-3)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.9	96	90 - 110	2014-08-21

Standard (CCV-3)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.79	96	90 - 110	2014-08-21

Standard (CCV-3)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-08-21

Standard (CCV-4)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-08-21

Standard (CCV-4)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.81	96	90 - 110	2014-08-21

Standard (CCV-4)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1,4,5	mg/L	25.0	24.1	96	90 - 110	2014-08-21

Standard (ICV-1)

QC Batch: 115040

Date Analyzed: 2014-08-28

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-08-28

Standard (CCV-1)

QC Batch: 115040

Date Analyzed: 2014-08-28

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-08-28

Standard (ICV-1)

QC Batch: 115391

Date Analyzed: 2014-09-11

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-11

Standard (CCV-1)

QC Batch: 115391

Date Analyzed: 2014-09-11

Analyzed By: CF

Report Date: September 12, 2014

Work Order: 14082043
Mountain View Dairy

Page Number: 28 of 31
13090 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		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-11

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
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.0625	Pass
Sulfide	SM 4500-S2 D	water	Spectrophotometer	Sulfide	0.0300	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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.

5001 Aberdeen, Ste. 11
Paso, TX 79932
Tel (915) 585-3443
Fax (915) 585-4944

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

LAB Order ID # 140 82043

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

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
37247	70-01	1	250	X				X	X	X		8-20-14	8:26
-2	70-01	1	250	X				X	X	X			8:28
68	70-02	1	250	X				X	X	X			9:47
-2	70-02	1	250	X				X	X	X			9:47
69	70-03	1	250	X				X	X	X			10:26
-2	70-03	1	250	X				X	X	X			10:26
70	70-04	1	250	X				X	X	X			8:55
-2	70-04	1	250	X				X	X	X			8:55
71	70 Lagoon	1	250	X				X	X	X			9:13
-2	70 Lagoon	1	250	X				X	X	X			9:13
-3	70 Lagoon	1	250	X				X	X	X			9:13
72	North Stormwater Lagoon	1	250	X				X	X	X			9:21
-2	North Stormwater Lagoon	1	250	X				X	X	X			9:21
-3	North Stormwater Lagoon	1	250	X				X	X	X			9:21

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	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
Sulfate EPA Method 300.0	X
Total Sulfur	
Turn Around Time	
Hold	

Relinquished By: *JVA* Date: 8-20-14 Time: 13:43
Received By: *Danny de Haro* Date: 8-20-14 Time: 13:43
Relinquished By: *D-7 de H-* Date: 8-20-14 Time: 16:30
Received By: *BC, TA* Date: 8/21/14 Time: 8:00

Lab Use Only
 Intact Y N
 Headspace Y / N
 Temp 3/20C
 Log-in Review 8/21/14

Remarks:
 Dry Weight Basis Required
 TRRP Report Required

COPY IN/LSO 48891780



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: September 12, 2014

Work Order: 14082052



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
372480	74-1	water	2014-08-20	13:13	2014-08-20
372481	74-2	water	2014-08-20	12:07	2014-08-20
372482	74-3	water	2014-08-20	11:41	2014-08-20
372483	74 Lagoon	water	2014-08-20	12:22	2014-08-20

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 22 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2014-08-20 and assigned to work order 14082052. Samples for work order 14082052 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	97114	2014-08-21 at 13:42	114843	2014-08-21 at 13:42
NO3 (IC)	E 300.0	97114	2014-08-21 at 13:42	114843	2014-08-21 at 13:42
TDS	SM 2540C	97137	2014-08-23 at 13:20	114866	2014-08-23 at 13:20
TKN	SM 4500-NH3 B,C	97582	2014-09-12 at 16:30	115391	2014-09-11 at 20:10

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 14082052 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: 372480 - 74-1

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	866	866	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372480 - 74-1

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	76.2	76.2	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 372480 - 74-1

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114866 Date Analyzed: 2014-08-23 Analyzed By: MC
 Prep Batch: 97137 Sample Preparation: 2014-08-23 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3480	3480	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372480 - 74-1

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115391 Date Analyzed: 2014-09-11 Analyzed By: CF
 Prep Batch: 97582 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372481 - 74-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	567	567	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372481 - 74-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	29.8	29.8	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372481 - 74-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114866 Date Analyzed: 2014-08-23 Analyzed By: MC
 Prep Batch: 97137 Sample Preparation: 2014-08-23 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2360	2360	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372481 - 74-2

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115391 Date Analyzed: 2014-09-11 Analyzed By: CF
 Prep Batch: 97582 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372482 - 74-3

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	1240	1240	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372482 - 74-3

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114843 Date Analyzed: 2014-08-21 Analyzed By: JR
 Prep Batch: 97114 Sample Preparation: 2014-08-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	2.77	2.77	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372482 - 74-3

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114866 Date Analyzed: 2014-08-23 Analyzed By: MC
 Prep Batch: 97137 Sample Preparation: 2014-08-23 Prepared By: MC

continued . . .

sample 372482 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	4380	4380	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372482 - 74-3

Laboratory: Lubbock
 Analysis: TKN
 QC Batch: 115391
 Prep Batch: 97582

Analytical Method: SM 4500-NH3 B,C
 Date Analyzed: 2014-09-11
 Sample Preparation: 2014-09-12

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	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372483 - 74 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC)
 QC Batch: 114843
 Prep Batch: 97114

Analytical Method: E 300.0
 Date Analyzed: 2014-08-21
 Sample Preparation: 2014-08-21

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	B	1,4,5	419	419	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 372483 - 74 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC)
 QC Batch: 114843
 Prep Batch: 97114

Analytical Method: E 300.0
 Date Analyzed: 2014-08-21
 Sample Preparation: 2014-08-21

Prep Method: N/A
 Analyzed By: JR
 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1,4,5	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372483 - 74 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114866 Date Analyzed: 2014-08-23 Analyzed By: MC
 Prep Batch: 97137 Sample Preparation: 2014-08-23 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2270	2270	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372483 - 74 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115391 Date Analyzed: 2014-09-11 Analyzed By: CF
 Prep Batch: 97582 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	62.3	62.3	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114843
Prep Batch: 97114Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,4,5	1.30	mg/L	0.0068

Method Blank (1)

QC Batch: 114843
Prep Batch: 97114Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114866
Prep Batch: 97137Date Analyzed: 2014-08-23
QC Preparation: 2014-08-23Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115391
Prep Batch: 97582Date Analyzed: 2014-09-11
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Report Date: September 12, 2014

Work Order: 14082052
Buena Vista Dairy #2

Page Number: 11 of 22
16910 Stern Drive, Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372482

QC Batch: 114866
 Prep Batch: 97137

Date Analyzed: 2014-08-23
 QC Preparation: 2014-08-23

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	4280	4380	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114843
Prep Batch: 97114Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.1	mg/L	1	25.0	<0.00680	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.0	mg/L	1	25.0	<0.00680	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: 114843
Prep Batch: 97114Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.78	mg/L	1	5.00	<0.0251	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.77	mg/L	1	5.00	<0.0251	95	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: 114866
Prep Batch: 97137Date Analyzed: 2014-08-23
QC Preparation: 2014-08-23Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	999	mg/L	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	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: 115391
Prep Batch: 97582

Date Analyzed: 2014-09-11
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	46.2	mg/L	1	50.0	<1.80	92	80.7 - 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: 372481

QC Batch: 114843
Prep Batch: 97114Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1990	mg/L	55.6	1390	567	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		1,4,5	1980	mg/L	55.6	1390	567	102	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 372481

QC Batch: 114843
Prep Batch: 97114Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	295	mg/L	55.6	278	29.8	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	295	mg/L	55.6	278	29.8	95	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: 372587

QC Batch: 115391
Prep Batch: 97582Date Analyzed: 2014-09-11
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	48.3	mg/L	1	50.0	<1.80	97	72.1 - 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		2,3,6,7	49.7	mg/L	1	50.0	<1.80	99	72.1 - 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-2)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.8	95	90 - 110	2014-08-21

Standard (CCV-2)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.78	96	90 - 110	2014-08-21

Standard (CCV-3)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.9	96	90 - 110	2014-08-21

Standard (CCV-3)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.79	96	90 - 110	2014-08-21

Standard (CCV-4)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-08-21

Standard (CCV-4)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.81	96	90 - 110	2014-08-21

Standard (CCV-5)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-08-21

Standard (CCV-5)

QC Batch: 114843

Date Analyzed: 2014-08-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.82	96	90 - 110	2014-08-21

Standard (ICV-1)

QC Batch: 115391

Date Analyzed: 2014-09-11

Analyzed By: CF

Report Date: September 12, 2014

Work Order: 14082052
Buena Vista Dairy #2

Page Number: 19 of 22
16910 Stern Drive, Mesquite, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-11

Standard (CCV-1)

QC Batch: 115391

Date Analyzed: 2014-09-11

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-11

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
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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 #1
13950 Stern Drive
P.O. Box 21
Mesquite, NM, 88048

Report Date: September 12, 2014

Work Order: 14081931



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
372235	624-01	water	2014-08-19	14:12	2014-08-19
372236	624-02	water	2014-08-19	13:02	2014-08-19
372237	624-Lagoon	water	2014-08-19	12:10	2014-08-19

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 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2014-08-19 and assigned to work order 14081931. Samples for work order 14081931 were received intact at a temperature of 3.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	97078	2014-08-19 at 21:03	114794	2014-08-19 at 09:03
NO3 (IC)	E 300.0	97078	2014-08-19 at 21:03	114794	2014-08-19 at 09:03
TDS	SM 2540C	97131	2014-08-22 at 13:30	114861	2014-08-22 at 13:30
TKN	SM 4500-NH3 B,C	97281	2014-08-28 at 11:40	115037	2014-08-28 at 15:20
TKN	SM 4500-NH3 B,C	97582	2014-09-12 at 16:30	115391	2014-09-11 at 20:10

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 14081931 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: 372235 - 624-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
 Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	794	794	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372235 - 624-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
 Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	11.8	11.8	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372235 - 624-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114861 Date Analyzed: 2014-08-22 Analyzed By: MC
 Prep Batch: 97131 Sample Preparation: 2014-08-22 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2590	2590	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372235 - 624-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115037 Date Analyzed: 2014-08-28 Analyzed By: CF
 Prep Batch: 97281 Sample Preparation: 2014-08-28 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372236 - 624-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
 Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	995	995	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372236 - 624-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
 Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	13.9	13.9	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372236 - 624-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114861 Date Analyzed: 2014-08-22 Analyzed By: MC
 Prep Batch: 97131 Sample Preparation: 2014-08-22 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3380	3380	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372236 - 624-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115037 Date Analyzed: 2014-08-28 Analyzed By: CF
 Prep Batch: 97281 Sample Preparation: 2014-08-28 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372237 - 624-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
 Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	2980	2980	<0.680	mg/L	100	0.680	2.5	0.0068

Sample: 372237 - 624-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114794 Date Analyzed: 2014-08-19 Analyzed By: JR
 Prep Batch: 97078 Sample Preparation: 2014-08-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1,4,5	<0.251	<5.00	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 372237 - 624-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114861 Date Analyzed: 2014-08-22 Analyzed By: MC
 Prep Batch: 97131 Sample Preparation: 2014-08-22 Prepared By: MC

continued . . .

sample 372237 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	12300	12300	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372237 - 624-Lagoon

Laboratory: Lubbock
Analysis: TKN
QC Batch: 115391
Prep Batch: 97582

Analytical Method: SM 4500-NH3 B,C
Date Analyzed: 2014-09-11
Sample Preparation: 2014-09-12

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		2,3,6,7	98.0	98.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114794
Prep Batch: 97078Date Analyzed: 2014-08-19
QC Preparation: 2014-08-19Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 114794
Prep Batch: 97078Date Analyzed: 2014-08-19
QC Preparation: 2014-08-19Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114861
Prep Batch: 97131Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115037
Prep Batch: 97281Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: CF
Prepared By: CF

Report Date: September 12, 2014

Work Order: 14081931
Dominguez Dairy #1

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13950 Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 115391
Prep Batch: 97582

Date Analyzed: 2014-09-11
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372469

QC Batch: 114861
 Prep Batch: 97131

Date Analyzed: 2014-08-22
 QC Preparation: 2014-08-22

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	6940	7000	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114794
Prep Batch: 97078Date Analyzed: 2014-08-19
QC Preparation: 2014-08-19Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.0	mg/L	1	25.0	<0.00680	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.0	mg/L	1	25.0	<0.00680	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: 114794
Prep Batch: 97078Date Analyzed: 2014-08-19
QC Preparation: 2014-08-19Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.81	mg/L	1	5.00	<0.0251	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.82	mg/L	1	5.00	<0.0251	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: 114861
Prep Batch: 97131Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	999	mg/L	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.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 372152

QC Batch: 114794
Prep Batch: 97078Date Analyzed: 2014-08-19
QC Preparation: 2014-08-19Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	2520	mg/L	62.5	1560	879	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		1,4,5	2510	mg/L	62.5	1560	879	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: 372152

QC Batch: 114794
Prep Batch: 97078Date Analyzed: 2014-08-19
QC Preparation: 2014-08-19Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	305	mg/L	62.5	312	3.43	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	303	mg/L	62.5	312	3.43	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: 372236

QC Batch: 115037
Prep Batch: 97281Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	46.2	mg/L	1	50.0	<1.80	92	72.1 - 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: 372587

QC Batch: 115391
Prep Batch: 97582

Date Analyzed: 2014-09-11
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	48.3	mg/L	1	50.0	<1.80	97	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	49.7	mg/L	1	50.0	<1.80	99	72.1 - 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-2)

QC Batch: 114794

Date Analyzed: 2014-08-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-08-19

Standard (CCV-2)

QC Batch: 114794

Date Analyzed: 2014-08-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.82	96	90 - 110	2014-08-19

Standard (CCV-3)

QC Batch: 114794

Date Analyzed: 2014-08-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-08-19

Standard (CCV-3)

QC Batch: 114794

Date Analyzed: 2014-08-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.83	97	90 - 110	2014-08-19

Standard (CCV-4)

QC Batch: 114794

Date Analyzed: 2014-08-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.1	96	90 - 110	2014-08-19

Standard (CCV-4)

QC Batch: 114794

Date Analyzed: 2014-08-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	0.00	4.86	97	90 - 110	2014-08-19

Standard (ICV-1)

QC Batch: 115037

Date Analyzed: 2014-08-28

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-08-28

Standard (CCV-1)

QC Batch: 115037

Date Analyzed: 2014-08-28

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-08-28

Standard (ICV-1)

QC Batch: 115391

Date Analyzed: 2014-09-11

Analyzed By: CF

Report Date: September 12, 2014

Work Order: 14081931
Dominguez Dairy #1

Page Number: 18 of 21
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		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-11

Standard (CCV-1)

QC Batch: 115391

Date Analyzed: 2014-09-11

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-11

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.



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 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Edward DeRuyter
 Sunset Dairy
 17900 Stern Drive
 P.O. Box 10
 Mesquite, NM, 88048

Report Date: September 12, 2014

Work Order: 14082522



DP: 441982
 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
372863	257-02	water	2014-08-25	11:52	2014-08-25
372864	257-01	water	2014-08-25	11:36	2014-08-25
372865	257-03	water	2014-08-25	12:09	2014-08-25
372866	257/260-01	water	2014-08-25	12:58	2014-08-25
372867	257 Lagoon	water	2014-08-25	11:20	2014-08-25

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Sunset Dairy were received by TraceAnalysis, Inc. on 2014-08-25 and assigned to work order 14082522. Samples for work order 14082522 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	97185	2014-08-25 at 17:55	114922	2014-08-25 at 17:55
NO3 (IC)	E 300.0	97185	2014-08-25 at 17:55	114922	2014-08-25 at 17:55
TDS	SM 2540C	97207	2014-08-26 at 14:40	114947	2014-08-26 at 14:40
TKN	SM 4500-NH3 B,C	97610	2014-09-12 at 11:00	115426	2014-09-12 at 15:10

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 14082522 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: 372863 - 257-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	585	585	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372863 - 257-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	6.53	6.53	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372863 - 257-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114947 Date Analyzed: 2014-08-26 Analyzed By: MC
 Prep Batch: 97207 Sample Preparation: 2014-08-26 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2550	2550	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372863 - 257-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115426 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97610 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372864 - 257-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	694	694	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372864 - 257-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	49.4	49.4	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372864 - 257-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114947 Date Analyzed: 2014-08-26 Analyzed By: MC
 Prep Batch: 97207 Sample Preparation: 2014-08-26 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	3570	3570	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372864 - 257-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115426 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97610 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372865 - 257-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	413	413	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 372865 - 257-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	7.64	7.64	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372865 - 257-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114947 Date Analyzed: 2014-08-26 Analyzed By: MC
 Prep Batch: 97207 Sample Preparation: 2014-08-26 Prepared By: MC

continued . . .

sample 372865 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	1840	1840	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372865 - 257-03

Laboratory: Lubbock

Analysis: TKN

QC Batch: 115426

Prep Batch: 97610

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-09-12

Sample Preparation: 2014-09-12

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372866 - 257/260-01

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 114922

Prep Batch: 97185

Analytical Method: E 300.0

Date Analyzed: 2014-08-25

Sample Preparation: 2014-08-25

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	562	562	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372866 - 257/260-01

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 114922

Prep Batch: 97185

Analytical Method: E 300.0

Date Analyzed: 2014-08-25

Sample Preparation: 2014-08-25

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	3.74	3.74	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372866 - 257/260-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114947 Date Analyzed: 2014-08-26 Analyzed By: MC
 Prep Batch: 97207 Sample Preparation: 2014-08-26 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	2440	2440	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372866 - 257/260-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115426 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97610 Sample Preparation: 2014-09-12 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	J	2,3,7,9	6.30	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372867 - 257 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	899	899	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372867 - 257 Lagoon

Laboratory: El Paso	Analytical Method: E 300.0	Prep Method: N/A
Analysis: NO3 (IC)	Date Analyzed: 2014-08-25	Analyzed By: JR
QC Batch: 114922	Sample Preparation: 2014-08-25	Prepared By: JR
Prep Batch: 97185		

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,6	1.18	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372867 - 257 Lagoon

Laboratory: El Paso	Analytical Method: SM 2540C	Prep Method: N/A
Analysis: TDS	Date Analyzed: 2014-08-26	Analyzed By: MC
QC Batch: 114947	Sample Preparation: 2014-08-26	Prepared By: MC
Prep Batch: 97207		

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	5820	5820	<2.50	mg/L	1	2.50	2.5	2.5

Method Blanks

Method Blank (1)

QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114947
Prep Batch: 97207Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115426
Prep Batch: 97610Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Report Date: September 12, 2014

Work Order: 14082522
Sunset Dairy

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17900 S. Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,9	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372961

QC Batch: 114947
Prep Batch: 97207

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2300	2350	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114922
Prep Batch: 97185

Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	24.3	mg/L	1	25.0	<0.00680	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	24.3	mg/L	1	25.0	<0.00680	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: 114922
Prep Batch: 97185

Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.82	mg/L	1	5.00	<0.0251	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.82	mg/L	1	5.00	<0.0251	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: 114947
Prep Batch: 97207

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	997	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		1,4,6	997	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: 115426
Prep Batch: 97610

Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	44.1	mg/L	1	50.0	<1.80	88	80.7 - 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: 372865QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	1790	mg/L	55.6	1390	413	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	1780	mg/L	55.6	1390	413	98	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: 372865QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	276	mg/L	55.6	278	7.64	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		1,4,6	274	mg/L	55.6	278	7.64	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: 372865QC Batch: 115426
Prep Batch: 97610Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	49.7	mg/L	1	50.0	<1.80	99	72.1 - 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		2,3,7,9	50.4	mg/L	1	50.0	<1.80	101	72.1 - 120	1	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: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	23.8	95	90 - 110	2014-08-25

Standard (CCV-1)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.80	96	90 - 110	2014-08-25

Standard (CCV-2)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	23.9	96	90 - 110	2014-08-25

Standard (CCV-2)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.82	96	90 - 110	2014-08-25

Standard (CCV-3)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.0	96	90 - 110	2014-08-25

Standard (CCV-3)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.84	97	90 - 110	2014-08-25

Standard (ICV-1)

QC Batch: 115426

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.48	90	85 - 115	2014-09-12

Standard (CCV-1)

QC Batch: 115426

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.62	92	85 - 115	2014-09-12

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8	NELAP	T104704392-14-8	Midland
9		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.

F Description

Qsr Surrogate recovery outside of laboratory limits.

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

TraceAnalysis, Inc.

5010 Ardmore, Ste. 3
Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

Company Name: 915-859-8150
Phone #: 915-859-8150
Cell #: vajala@dhpump.com
Address: (Street, City, Zip)
1221 Tower Trail Ln, El Paso TX 79907
Contact Person:
Victor Ayala

D&H Petroleum & Environmental Services
Invoice to (if different from above):
Sunset Dairy, PO Box 10, Mesquite, NM 88048
Project #: 441982
Project Name:
Sunset Dairy
Sampler Signature: JWS

Project Location (including state):
Sunset Dairy, 1790

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE
372443	257-02	1	250	X				X				8-25-14	11:35
1-2	257-02	1	250	X				X				11:30	11:35
814-1	257-01	1	250	X				X				11:30	11:30
1-2	257-01	1	250	X				X				12:09	12:09
815-1	257-03	1	250	X				X				12:09	12:09
1-2	257-03	1	250	X				X				12:58	12:58
816-1	257/260-01	1	250	X				X				12:58	12:58
1-2	257/260-01	1	250	X				X				11:20	11:20
817-1	257 Lagoon	1	250	X				X				11:20	11:20
1-2	257 Lagoon	1	250	X				X					

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
JWS	8-25-14	14:08	D-7 d.H.	8-25-14	14:08
D-7 d.H.	T.A.	8-25-14 16:30	BC, JT	8/26/14	9am

Page 1 of 1
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 14082522

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
								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: LS 48891728
Lab Use Only
Intact Y / N
Headspace Y / N
Temp 12-1-30
Log-in Review 8-25-14
Dry Weight Basis Required
TRRP Report Required
CARRY IN



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: September 12, 2014

Work Order: 14082130



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
372586	833-7	Water	2014-08-21	13:12	2014-08-21
372587	833-10	Water	2014-08-21	10:55	2014-08-21
372588	833-Lagoon	Water	2014-08-21	14:13	2014-08-21
372589	833-6	Water	2014-08-21	12:10	2014-08-21
372590	833-5	Water	2014-08-21	14:06	2014-08-21

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 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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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QC Batch 114844 - CCV (3)	22
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QC Batch 114884 - CCV (1)	22
QC Batch 114884 - CCV (2)	22
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Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2014-08-21 and assigned to work order 14082130. Samples for work order 14082130 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	97115	2014-08-22 at 12:20	114844	2014-08-22 at 12:20
Chloride (IC)	E 300.0	97153	2014-08-22 at 18:59	114884	2014-08-22 at 18:59
NO3 (IC)	E 300.0	97115	2014-08-22 at 12:20	114844	2014-08-22 at 12:20
NO3 (IC)	E 300.0	97153	2014-08-22 at 18:59	114884	2014-08-22 at 18:59
TDS	SM 2540C	97174	2014-08-25 at 14:00	114908	2014-08-25 at 14:00
TKN	SM 4500-NH3 B,C	97582	2014-09-12 at 16:30	115391	2014-09-11 at 20:10
TKN	SM 4500-NH3 B,C	97609	2014-09-12 at 11:00	115425	2014-09-12 at 15:10

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 14082130 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: 372586 - 833-7

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114844 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97115 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	1360	1360	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372586 - 833-7

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114844 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97115 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	B	1,4,6	83.6	83.6	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 372586 - 833-7

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114908 Date Analyzed: 2014-08-25 Analyzed By: MC
 Prep Batch: 97174 Sample Preparation: 2014-08-25 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	4920	4920	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372586 - 833-7

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115391 Date Analyzed: 2014-09-11 Analyzed By: CF
 Prep Batch: 97582 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,8	5.60	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372587 - 833-10

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114844 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97115 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	671	671	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372587 - 833-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114844 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97115 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	B	1,4,6	5.66	5.66	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372587 - 833-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114908 Date Analyzed: 2014-08-25 Analyzed By: MC
 Prep Batch: 97174 Sample Preparation: 2014-08-25 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2780	2780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372587 - 833-10

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115391 Date Analyzed: 2014-09-11 Analyzed By: CF
 Prep Batch: 97582 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372588 - 833-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114844 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97115 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	659	659	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372588 - 833-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114844 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97115 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	B	1,4,6	2.85	2.85	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372588 - 833-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114908 Date Analyzed: 2014-08-25 Analyzed By: MC
 Prep Batch: 97174 Sample Preparation: 2014-08-25 Prepared By: MC

continued . . .

sample 372588 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	4340	4340	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372588 - 833-Lagoon

Laboratory: Lubbock

Analysis: TKN

QC Batch: 115391

Prep Batch: 97582

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-09-11

Sample Preparation: 2014-09-12

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	273	273	<1.80	mg/L	1	1.80	10	1.8

Sample: 372589 - 833-6

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 114844

Prep Batch: 97115

Analytical Method: E 300.0

Date Analyzed: 2014-08-22

Sample Preparation: 2014-08-22

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)
Chloride	B	1,4,6	663	663	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372589 - 833-6

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 114844

Prep Batch: 97115

Analytical Method: E 300.0

Date Analyzed: 2014-08-22

Sample Preparation: 2014-08-22

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	B	1,4,6	17.4	17.4	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372589 - 833-6

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114908 Date Analyzed: 2014-08-25 Analyzed By: MC
 Prep Batch: 97174 Sample Preparation: 2014-08-25 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	2300	2300	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372589 - 833-6

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115425 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97609 Sample Preparation: 2014-09-12 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	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372590 - 833-5

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	B	1,4,6	752	752	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372590 - 833-5

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	21.0	21.0	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372590 - 833-5

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114908 Date Analyzed: 2014-08-25 Analyzed By: MC
 Prep Batch: 97174 Sample Preparation: 2014-08-25 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2320	2320	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372590 - 833-5

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115425 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97609 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114844
Prep Batch: 97115Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,4,6	1.31	mg/L	0.0068

Method Blank (1)

QC Batch: 114844
Prep Batch: 97115Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N	B	1,4,6	0.179	mg/L	0.0251

Method Blank (1)

QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,4,6	1.31	mg/L	0.0068

Method Blank (1)

QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)QC Batch: 114908
Prep Batch: 97174Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)QC Batch: 115391
Prep Batch: 97582Date Analyzed: 2014-09-11
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Method Blank (1)QC Batch: 115425
Prep Batch: 97609Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372708

QC Batch: 114908
Prep Batch: 97174

Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	3350	3240	mg/L	1	3	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114844
Prep Batch: 97115Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.3	mg/L	1	25.0	<0.00680	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
Chloride		1,4,6	25.2	mg/L	1	25.0	<0.00680	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 114844
Prep Batch: 97115Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	5.01	mg/L	1	5.00	<0.0251	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	5.00	mg/L	1	5.00	<0.0251	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: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	23.4	mg/L	1	25.0	<0.00680	94	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		1,4,6	23.4	mg/L	1	25.0	<0.00680	94	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: 114884
Prep Batch: 97153

Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,6	4.65	mg/L	1	5.00	<0.0251	93	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		1,4,6	4.66	mg/L	1	5.00	<0.0251	93	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: 114908
Prep Batch: 97174

Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1,4,6	996	mg/L	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		1,4,6	996	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: 115391
Prep Batch: 97582

Date Analyzed: 2014-09-11
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	46.2	mg/L	1	50.0	<1.80	92	80.7 - 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: 115425
Prep Batch: 97609

Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 372589QC Batch: 114844
Prep Batch: 97115Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	2180	mg/L	55.6	1390	663	109	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	2180	mg/L	55.6	1390	663	109	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: 372589QC Batch: 114844
Prep Batch: 97115Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	298	mg/L	55.6	278	17.4	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	298	mg/L	55.6	278	17.4	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: 372592QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	1870	mg/L	55.6	1390	464	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	1850	mg/L	55.6	1390	464	100	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 372592

QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
Prep Batch: 97153 QC Preparation: 2014-08-22 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Nitrate-N		1,4,6	286	mg/L	55.6	278	18.8	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.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	281	mg/L	55.6	278	18.8	94	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: 372587

QC Batch: 115391 Date Analyzed: 2014-09-11 Analyzed By: CF
Prep Batch: 97582 QC Preparation: 2014-09-12 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	48.3	mg/L	1	50.0	<1.80	97	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	49.7	mg/L	1	50.0	<1.80	99	72.1 - 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: 372706

QC Batch: 115425 Date Analyzed: 2014-09-12 Analyzed By: CF
Prep Batch: 97609 QC Preparation: 2014-09-12 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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		2,3,7,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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: 114844

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.0	96	90 - 110	2014-08-22

Standard (CCV-1)

QC Batch: 114844

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.82	96	90 - 110	2014-08-22

Standard (CCV-2)

QC Batch: 114844

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.1	96	90 - 110	2014-08-22

Standard (CCV-2)

QC Batch: 114844

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.84	97	90 - 110	2014-08-22

Standard (CCV-3)

QC Batch: 114844

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.2	97	90 - 110	2014-08-22

Standard (CCV-3)

QC Batch: 114844

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.84	97	90 - 110	2014-08-22

Standard (CCV-1)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.2	97	90 - 110	2014-08-22

Standard (CCV-1)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.88	98	90 - 110	2014-08-22

Standard (CCV-2)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.2	97	90 - 110	2014-08-22

Standard (CCV-2)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.86	97	90 - 110	2014-08-22

Standard (ICV-1)

QC Batch: 115391

Date Analyzed: 2014-09-11

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-09-11

Standard (CCV-1)

QC Batch: 115391

Date Analyzed: 2014-09-11

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-09-11

Standard (ICV-1)

QC Batch: 115425

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-09-12

Standard (CCV-1)

QC Batch: 115425

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.90	98	85 - 115	2014-09-12

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

F Description

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

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 #: 441985
 Project Name: Big Sky Dairy
 Project Location (including state):
 Big Sky Dairy, 17800 Stern Drive, Mesquite, NM
 Sampler Signature: *gvs*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE
587-1	833-7	1	250	X					X	X	X	8-21-14	13:12
-2	833-7	1	250	X					X	X	X		13:12
587-1	833-10	1	250	X					X	X	X		10:55
-2	833-10	1	250	X					X	X	X		10:55
588-1	833 Lagoon	1	250	X					X	X	X		14:13
-2	833 Lagoon	1	250	X					X	X	X		14:13
585-1	833-6	1	250	X					X	X	X		12:10
-2	833-6	1	250	X					X	X	X		12:10
586-1	833-5	1	250	X					X	X	X		14:06
-2	833-5	1	250	X					X	X	X		14:06

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

Remarks: on Tue

Lab Use Only: Intact N

Headspace Y / N: Y

Temp: 22.1°C

Log-in Review: 12

DRY 8/21/14

Carry In 48891781

Relinquished By: *gvs* Date: 8-21-14 Time: 14:30
 Received By: *MRC TREP* Date: 8/21/14 Time: 14:30
 Relinquished By: *MRC TREP* Date: 8/21/14 Time: 14:30
 Received at Laboratory By: *Taylor TA* Date: 8/22/14 Time: 8:20



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

Michael Weatherly
 Buena Vista Dairy #2
 16910 Stern Drive
 P.O. Box 346
 Mesquite, NM, 88048

Report Date: September 12, 2014

Work Order: 14082131



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
372591	74-04	Water	2014-08-21	07:58	2014-08-21
372592	74-05	Water	2014-08-21	09:17	2014-08-21

Notes

- **Work Order 14082131:** Results due in 10 business days: Estimated date 09/04/2014

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2014-08-21 and assigned to work order 14082131. Samples for work order 14082131 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	97153	2014-08-22 at 18:59	114884	2014-08-22 at 18:59
NO3 (IC)	E 300.0	97153	2014-08-22 at 18:59	114884	2014-08-22 at 18:59
TDS	SM 2540C	97174	2014-08-25 at 14:00	114908	2014-08-25 at 14:00
TKN	SM 4500-NH3 B,C	97609	2014-09-12 at 11:00	115425	2014-09-12 at 15:10

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 14082131 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: 372591 - 74-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	556	556	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372591 - 74-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	16.3	16.3	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372591 - 74-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114908 Date Analyzed: 2014-08-25 Analyzed By: MC
 Prep Batch: 97174 Sample Preparation: 2014-08-25 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2060	2060	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372591 - 74-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115425 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97609 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372592 - 74-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	464	464	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372592 - 74-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	18.8	18.8	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372592 - 74-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114908 Date Analyzed: 2014-08-25 Analyzed By: MC
 Prep Batch: 97174 Sample Preparation: 2014-08-25 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	1880	1880	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372592 - 74-05

Report Date: September 12, 2014

Work Order: 14082131
Buena Vista Dairy #2

Page Number: 7 of 19
16910 Stern Drive, Mesquite, NM

Laboratory: Lubbock

Analysis: TKN

QC Batch: 115425

Prep Batch: 97609

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-09-12

Sample Preparation: 2014-09-12

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	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,4,6	1.31	mg/L	0.0068

Method Blank (1)

QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114908
Prep Batch: 97174Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115425
Prep Batch: 97609Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Report Date: September 12, 2014

Work Order: 14082131
Buena Vista Dairy #2

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16910 Stern Drive, Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,9	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372708

QC Batch: 114908
 Prep Batch: 97174

Date Analyzed: 2014-08-25
 QC Preparation: 2014-08-25

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	3350	3240	mg/L	1	3	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	23.4	mg/L	1	25.0	<0.00680	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	23.4	mg/L	1	25.0	<0.00680	94	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: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.65	mg/L	1	5.00	<0.0251	93	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.66	mg/L	1	5.00	<0.0251	93	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: 114908
Prep Batch: 97174Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	996	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	996	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: 115425
Prep Batch: 97609

Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 372592QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,6	1870	mg/L	55.6	1390	464	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1,4,6	1850	mg/L	55.6	1390	464	100	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 372592QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,6	286	mg/L	55.6	278	18.8	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,6	281	mg/L	55.6	278	18.8	94	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: 372706QC Batch: 115425
Prep Batch: 97609Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,7,9	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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		2,3,7,9	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.2	97	90 - 110	2014-08-22

Standard (CCV-1)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.88	98	90 - 110	2014-08-22

Standard (CCV-2)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.2	97	90 - 110	2014-08-22

Standard (CCV-2)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.86	97	90 - 110	2014-08-22

Standard (CCV-3)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.2	97	90 - 110	2014-08-22

Standard (CCV-3)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.87	97	90 - 110	2014-08-22

Standard (ICV-1)

QC Batch: 115425

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.48	90	85 - 115	2014-09-12

Standard (CCV-1)

QC Batch: 115425

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.90	98	85 - 115	2014-09-12

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8	NELAP	T104704392-14-8	Midland
9		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.

F Description

Qsr Surrogate recovery outside of laboratory limits.

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

George Segura
 Big Sky Dairy
 17800 Stern Drive
 P.O. Box 10
 Mesquite, NM, 88048

Report Date: September 12, 2014

Work Order: 14082228



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
372706	833-04	water	2014-08-22	10:45	2014-08-22
372707	833-08	water	2014-08-22	11:46	2014-08-22
372708	833-09	water	2014-08-22	09:47	2014-08-22

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 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2014-08-22 and assigned to work order 14082228. Samples for work order 14082228 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	97153	2014-08-22 at 18:59	114884	2014-08-22 at 18:59
NO3 (IC)	E 300.0	97153	2014-08-22 at 18:59	114884	2014-08-22 at 18:59
TDS	SM 2540C	97174	2014-08-25 at 14:00	114908	2014-08-25 at 14:00
TKN	SM 4500-NH3 B,C	97609	2014-09-12 at 11:00	115425	2014-09-12 at 15:10
TKN	SM 4500-NH3 B,C	97610	2014-09-12 at 11:00	115426	2014-09-12 at 15:10

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 14082228 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: 372706 - 833-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	677	677	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372706 - 833-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	10.4	10.4	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372706 - 833-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114908 Date Analyzed: 2014-08-25 Analyzed By: MC
 Prep Batch: 97174 Sample Preparation: 2014-08-25 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2230	2230	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372706 - 833-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115425 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97609 Sample Preparation: 2014-09-12 Prepared By: CF

Report Date: September 12, 2014

Work Order: 14082228
Big Sky Dairy

Page Number: 6 of 21
17800 Stern Drive, Mesquite, NM 88048

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372707 - 833-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	672	672	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372707 - 833-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	90.2	90.2	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 372707 - 833-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114908 Date Analyzed: 2014-08-25 Analyzed By: MC
 Prep Batch: 97174 Sample Preparation: 2014-08-25 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2900	2900	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372707 - 833-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115426 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97610 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372708 - 833-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	759	759	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372708 - 833-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114884 Date Analyzed: 2014-08-22 Analyzed By: JR
 Prep Batch: 97153 Sample Preparation: 2014-08-22 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	64.9	64.9	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 372708 - 833-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114908 Date Analyzed: 2014-08-25 Analyzed By: MC
 Prep Batch: 97174 Sample Preparation: 2014-08-25 Prepared By: MC

continued . . .

sample 372708 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	3240	3240	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372708 - 833-09

Laboratory: Lubbock
Analysis: TKN
QC Batch: 115426
Prep Batch: 97610

Analytical Method: SM 4500-NH3 B,C
Date Analyzed: 2014-09-12
Sample Preparation: 2014-09-12

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	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,4,6	1.31	mg/L	0.0068

Method Blank (1)

QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114908
Prep Batch: 97174Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115425
Prep Batch: 97609Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 115426

Date Analyzed: 2014-09-12

Analyzed By: CF

Prep Batch: 97610

QC Preparation: 2014-09-12

Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372708

QC Batch: 114908
Prep Batch: 97174

Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	3350	3240	mg/L	1	3	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	23.4	mg/L	1	25.0	<0.00680	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	23.4	mg/L	1	25.0	<0.00680	94	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: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.65	mg/L	1	5.00	<0.0251	93	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.66	mg/L	1	5.00	<0.0251	93	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: 114908
Prep Batch: 97174Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	996	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		1,4,6	996	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: 115425
Prep Batch: 97609

Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 115426
Prep Batch: 97610

Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	80.7 - 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: 372592QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,6	1870	mg/L	55.6	1390	464	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1,4,6	1850	mg/L	55.6	1390	464	100	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 372592QC Batch: 114884
Prep Batch: 97153Date Analyzed: 2014-08-22
QC Preparation: 2014-08-22Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,6	286	mg/L	55.6	278	18.8	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,6	281	mg/L	55.6	278	18.8	94	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: 372706QC Batch: 115425
Prep Batch: 97609Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,7,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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: 372865

QC Batch: 115426
Prep Batch: 97610

Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	49.7	mg/L	1	50.0	<1.80	99	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	50.4	mg/L	1	50.0	<1.80	101	72.1 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-2)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.2	97	90 - 110	2014-08-22

Standard (CCV-2)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.86	97	90 - 110	2014-08-22

Standard (CCV-3)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.2	97	90 - 110	2014-08-22

Standard (CCV-3)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.87	97	90 - 110	2014-08-22

Standard (CCV-4)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.3	97	90 - 110	2014-08-22

Standard (CCV-4)

QC Batch: 114884

Date Analyzed: 2014-08-22

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.88	98	90 - 110	2014-08-22

Standard (ICV-1)

QC Batch: 115425

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-09-12

Standard (CCV-1)

QC Batch: 115425

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.90	98	85 - 115	2014-09-12

Standard (ICV-1)

QC Batch: 115426

Date Analyzed: 2014-09-12

Analyzed By: CF

Report Date: September 12, 2014

Work Order: 14082228
Big Sky Dairy

Page Number: 18 of 21
17800 Stern Drive, Mesquite, NM 88048

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-09-12

Standard (CCV-1)

QC Batch: 115426

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.62	92	85 - 115	2014-09-12

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

F Description

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

TraceAnalysis, Inc.

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Company Name: **D&H PETROCHEM**
 Address: (Street, City, Zip) **1721 TOWER TRAIL LN, EL PASO, TX, 79927**
 Contact Person: **VICTOR AYALA**
 E-mail: **vayala@dchpump.com**
 Phone #: **915-859-8150**
 Fax #: **915-859-8150**
 Invoice to: **MESQUITE, NM, 88048**
 (if different from above) **Po Box 10, Mesquite, NM**
 Project #: **441985**
 Project Name: **BIG SKY DAIRY**
 Sampler Signature: **Juv**

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
372704833-04		1	250	X				X				X	8-22	10:45
-2833-4		1	250	X				X				X	10:45	10:45
707833-8		1	250	X				X				X	11:46	11:46
-2833-8		1	250	X				X				X	11:46	11:46
708833-9		1	250	X				X				X	9:47	9:47
-2833-9		1	250	X				X				X	9:47	9:47

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR
Juv	D&H	8-22-14	12:33	D&H H.L. T.A.	8-22-14	12:33	12:33	12-2	1	1
D&H	T.A.	8-22-14	16:10	PM	TH	8-13-14	9:00	12-3	2.5	2.4

ANALYSIS REQUEST (Circle or Specify Method No.)

Method No.	Method Name	Na, Ca, Mg, K, TDS, EC	NITRATE EPA 360	TKN SM 4500 NORG C	CHLORIDE EPA 300	TDS SM 2540 C MOD	Turn Around Time if different from standard
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 ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity			X				

REMARKS:

LAB USE ONLY

Interpretation: Y N

Headspace: Y N / NA

Log Review: Y N

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

Carrier # **25 4891779**



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)

Edward DeRuyter
Sunset Dairy
17900 Stern Drive
P.O. Box 10
Mesquite, NM, 88048

Report Date: September 15, 2014

Work Order: 14082522



DP: 441982
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
372863	257-02	water	2014-08-25	11:52	2014-08-25
372864	257-01	water	2014-08-25	11:36	2014-08-25
372865	257-03	water	2014-08-25	12:09	2014-08-25
372866	257/260-01	water	2014-08-25	12:58	2014-08-25
372867	257 Lagoon	water	2014-08-25	11:20	2014-08-25

Report Corrections (Work Order 14082522)

- 9/15/14: Reissued report with results for TKN on sample 372867.

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Sunset Dairy were received by TraceAnalysis, Inc. on 2014-08-25 and assigned to work order 14082522. Samples for work order 14082522 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	97185	2014-08-25 at 17:55	114922	2014-08-25 at 17:55
NO3 (IC)	E 300.0	97185	2014-08-25 at 17:55	114922	2014-08-25 at 17:55
TDS	SM 2540C	97207	2014-08-26 at 14:40	114947	2014-08-26 at 14:40
TKN	SM 4500-NH3 B,C	97610	2014-09-12 at 11:00	115426	2014-09-12 at 15:10
TKN	SM 4500-NH3 B,C	97624	2014-09-12 at 16:30	115439	2014-09-12 at 19:00

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 14082522 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: 372863 - 257-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	585	585	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372863 - 257-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	6.53	6.53	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372863 - 257-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114947 Date Analyzed: 2014-08-26 Analyzed By: MC
 Prep Batch: 97207 Sample Preparation: 2014-08-26 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2550	2550	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372863 - 257-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115426 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97610 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372864 - 257-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	694	694	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372864 - 257-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	49.4	49.4	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372864 - 257-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114947 Date Analyzed: 2014-08-26 Analyzed By: MC
 Prep Batch: 97207 Sample Preparation: 2014-08-26 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3570	3570	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372864 - 257-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115426 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97610 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372865 - 257-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	413	413	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 372865 - 257-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	7.64	7.64	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372865 - 257-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114947 Date Analyzed: 2014-08-26 Analyzed By: MC
 Prep Batch: 97207 Sample Preparation: 2014-08-26 Prepared By: MC

continued . . .

sample 372865 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1840	1840	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372865 - 257-03

Laboratory: Lubbock

Analysis: TKN

QC Batch: 115426

Prep Batch: 97610

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-09-12

Sample Preparation: 2014-09-12

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372866 - 257/260-01

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 114922

Prep Batch: 97185

Analytical Method: E 300.0

Date Analyzed: 2014-08-25

Sample Preparation: 2014-08-25

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	562	562	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372866 - 257/260-01

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 114922

Prep Batch: 97185

Analytical Method: E 300.0

Date Analyzed: 2014-08-25

Sample Preparation: 2014-08-25

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	3.74	3.74	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372866 - 257/260-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114947 Date Analyzed: 2014-08-26 Analyzed By: MC
 Prep Batch: 97207 Sample Preparation: 2014-08-26 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2440	2440	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372866 - 257/260-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115426 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97610 Sample Preparation: 2014-09-12 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	J	2,3,6,7	6.30	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372867 - 257 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	899	899	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372867 - 257 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,5	1.18	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372867 - 257 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114947 Date Analyzed: 2014-08-26 Analyzed By: MC
 Prep Batch: 97207 Sample Preparation: 2014-08-26 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	5820	5820	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372867 - 257 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115439 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97624 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	162	162	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114947
Prep Batch: 97207Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115426
Prep Batch: 97610Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Report Date: September 15, 2014

Work Order: 14082522
Sunset Dairy

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17900 S. Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 115439
Prep Batch: 97624

Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372961

QC Batch: 114947
Prep Batch: 97207

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2300	2350	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114922
Prep Batch: 97185

Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.3	mg/L	1	25.0	<0.00680	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.3	mg/L	1	25.0	<0.00680	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: 114922
Prep Batch: 97185

Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.82	mg/L	1	5.00	<0.0251	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.82	mg/L	1	5.00	<0.0251	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: 114947
Prep Batch: 97207

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	997	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.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 372865QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1790	mg/L	55.6	1390	413	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							
Chloride		1,4,5	1780	mg/L	55.6	1390	413	98	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: 372865QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	276	mg/L	55.6	278	7.64	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	274	mg/L	55.6	278	7.64	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: 372865QC Batch: 115426
Prep Batch: 97610Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	49.7	mg/L	1	50.0	<1.80	99	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	50.4	mg/L	1	50.0	<1.80	101	72.1 - 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: 372964

QC Batch: 115439
Prep Batch: 97624

Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	72.1 - 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: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.8	95	90 - 110	2014-08-25

Standard (CCV-1)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.80	96	90 - 110	2014-08-25

Standard (CCV-2)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.9	96	90 - 110	2014-08-25

Standard (CCV-2)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.82	96	90 - 110	2014-08-25

Standard (CCV-3)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-08-25

Standard (CCV-3)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.84	97	90 - 110	2014-08-25

Standard (ICV-1)

QC Batch: 115426

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-09-12

Standard (CCV-1)

QC Batch: 115426

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-09-12

Standard (ICV-1)

QC Batch: 115439

Date Analyzed: 2014-09-12

Analyzed By: CF

Report Date: September 15, 2014

Work Order: 14082522
Sunset Dairy

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17900 S. 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		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-09-12

Standard (CCV-1)

QC Batch: 115439

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-09-12

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.

5001 Aberdeen, Ste. 3
Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

Company Name: 915-859-8150
Phone #: 915-859-8150
Cell #: vajala@dhpump.com
Address: (Street, City, Zip)
1221 Tower Trail Ln, El Paso TX 79907
Contact Person:
Victor Ayala

D&H Petroleum & Environmental Services
Invoice to (if different from above):
Sunset Dairy, PO Box 10, Mesquite, NM 88048
Project #: 441982
Project Name:
Sunset Dairy
Sampler Signature: JWS

Project Location (including state):
Sunset Dairy, 1790

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE
372443	257-02	1	250	X				X				8-25-14	11:35
1-2	257-02	1	250	X				X				11:36	11:35
814-1	257-01	1	250	X				X				11:36	11:36
1-2	257-01	1	250	X				X				12:09	12:09
815-1	257-03	1	250	X				X				12:09	12:09
1-2	257-03	1	250	X				X				12:58	12:58
816-1	257/260-01	1	250	X				X				12:58	12:58
1-2	257/260-01	1	250	X				X				11:20	11:20
817-1	257 Lagoon	1	250	X				X				11:20	11:20
1-2	257 Lagoon	1	250	X				X					

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
JWS	8-25-14	14:08	D-7 dH-	8-25-14	14:08
D-7 dH- T.A.	8-25-14	16:30	BC, JT	8/26/14	9am

Page 1 of 1
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 14082522

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
								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: LS 48891728
Lab Use Only
Intact Y / N
Headspace Y / N
Temp 12-1-30
Log-in Review 8-25-14
Dry Weight Basis Required
TRRP Report Required
CARRY IN



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

Isaac Dominguez
 Dominguez Dairy #2
 13600 Stern Drive
 P. O. Box 21
 Mesquite, NM, 88048

Report Date: September 15, 2014

Work Order: 14082630



Project Location: 13600 Stern Drive, Mesquite, NM
 Project Name: Dominguez Dairy #2 441971
 Project #: 441971

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
372961	42-2	water	2014-08-26	10:00	2014-08-26
372962	42-3	water	2014-08-26	07:37	2014-08-26
372963	42-6	water	2014-08-26	09:30	2014-08-26
372964	42-8	water	2014-08-26	10:34	2014-08-26
372965	42-9	water	2014-08-26	09:06	2014-08-26
372966	42-10	water	2014-08-26	12:37	2014-08-26
372967	42-Lagoon	water	2014-08-26	08:05	2014-08-26
372968	42-12	water	2014-08-26	12:05	2014-08-26

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dominguez Dairy #2 441971 were received by TraceAnalysis, Inc. on 2014-08-26 and assigned to work order 14082630. Samples for work order 14082630 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	97265	2014-08-26 at 17:28	115016	2014-08-27 at 17:28
NO3 (IC)	E 300.0	97265	2014-08-26 at 17:28	115016	2014-08-27 at 17:28
TDS	SM 2540C	97207	2014-08-26 at 14:40	114947	2014-08-26 at 14:40
TDS	SM 2540C	97287	2014-08-28 at 14:50	115043	2014-08-28 at 14:50
TDS	SM 2540C	97305	2014-08-29 at 14:25	115068	2014-08-29 at 14:25
TKN	SM 4500-NH3 B,C	97624	2014-09-12 at 16:30	115439	2014-09-12 at 19:00
TKN	SM 4500-NH3 B,C	97627	2014-09-12 at 16:30	115442	2014-09-12 at 19:00

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 14082630 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: 372961 - 42-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	477	477	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 372961 - 42-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	7.62	7.62	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372961 - 42-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114947 Date Analyzed: 2014-08-26 Analyzed By: MC
 Prep Batch: 97207 Sample Preparation: 2014-08-26 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2350	2350	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372961 - 42-2

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115439 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97624 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372962 - 42-3

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	891	891	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372962 - 42-3

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	78.0	78.0	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 372962 - 42-3

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115043 Date Analyzed: 2014-08-28 Analyzed By: MC
 Prep Batch: 97287 Sample Preparation: 2014-08-28 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3360	3360	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372962 - 42-3

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115439 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97624 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372963 - 42-6

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	302	302	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 372963 - 42-6

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	83.6	83.6	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 372963 - 42-6

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115043 Date Analyzed: 2014-08-28 Analyzed By: MC
 Prep Batch: 97287 Sample Preparation: 2014-08-28 Prepared By: MC

continued . . .

sample 372963 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2220	2220	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372963 - 42-6

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115439 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97624 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372964 - 42-8

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	159	159	<0.0340	mg/L	5	0.0340	2.5	0.0068

Sample: 372964 - 42-8

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	36.1	36.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372964 - 42-8

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115043 Date Analyzed: 2014-08-28 Analyzed By: MC
 Prep Batch: 97287 Sample Preparation: 2014-08-28 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1500	1500	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372964 - 42-8

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115439 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97624 Sample Preparation: 2014-09-12 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	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372965 - 42-9

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	674	674	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372965 - 42-9

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	46.5	46.5	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372965 - 42-9

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115043 Date Analyzed: 2014-08-28 Analyzed By: MC
 Prep Batch: 97287 Sample Preparation: 2014-08-28 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3000	3000	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372965 - 42-9

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115442 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97627 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372966 - 42-10

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

continued ...

sample 372966 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	410	410	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 372966 - 42-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1,4,5	1.08	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372966 - 42-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115043 Date Analyzed: 2014-08-28 Analyzed By: MC
 Prep Batch: 97287 Sample Preparation: 2014-08-28 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1340	1340	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372966 - 42-10

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115442 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97627 Sample Preparation: 2014-09-12 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	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372967 - 42-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	987	987	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372967 - 42-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	2.86	2.86	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372967 - 42-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115043 Date Analyzed: 2014-08-28 Analyzed By: MC
 Prep Batch: 97287 Sample Preparation: 2014-08-28 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	5020	5020	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372967 - 42-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115442 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97627 Sample Preparation: 2014-09-12 Prepared By: CF

continued . . .

sample 372967 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	244	244	<1.80	mg/L	1	1.80	10	1.8

Sample: 372968 - 42-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	319	319	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 372968 - 42-12

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115016 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97265 Sample Preparation: 2014-08-26 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	1,4,5	1.96	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372968 - 42-12

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115068 Date Analyzed: 2014-08-29 Analyzed By: MC
 Prep Batch: 97305 Sample Preparation: 2014-08-29 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Dissolved Solids		1,4,5	1290	1290	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372968 - 42-12

Laboratory: Lubbock

Analysis: TKN

QC Batch: 115442

Prep Batch: 97627

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-09-12

Sample Preparation: 2014-09-12

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N		2,3,6,7	48.3	48.3	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114947
Prep Batch: 97207Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115016
Prep Batch: 97265Date Analyzed: 2014-08-27
QC Preparation: 2014-08-26Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 115016
Prep Batch: 97265Date Analyzed: 2014-08-27
QC Preparation: 2014-08-26Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 115043
Prep Batch: 97287Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)QC Batch: 115068
Prep Batch: 97305Date Analyzed: 2014-08-29
QC Preparation: 2014-08-29Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)QC Batch: 115439
Prep Batch: 97624Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)QC Batch: 115442
Prep Batch: 97627Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372961QC Batch: 114947
Prep Batch: 97207Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2300	2350	mg/L	1	2	10

Duplicate (1) Duplicated Sample: 372962QC Batch: 115043
Prep Batch: 97287Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	3360	3360	mg/L	1	0	10

Duplicate (1) Duplicated Sample: 373074QC Batch: 115068
Prep Batch: 97305Date Analyzed: 2014-08-29
QC Preparation: 2014-08-29Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	3360	3490	mg/L	1	4	10

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 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: 115442
 Prep Batch: 97627

Date Analyzed: 2014-09-12
 QC Preparation: 2014-09-12

Analyzed By: CF
 Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 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: 372968QC Batch: 115016
Prep Batch: 97265Date Analyzed: 2014-08-27
QC Preparation: 2014-08-26Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1680	mg/L	55.6	1390	319	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							
Chloride		1,4,5	1660	mg/L	55.6	1390	319	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: 372968QC Batch: 115016
Prep Batch: 97265Date Analyzed: 2014-08-27
QC Preparation: 2014-08-26Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	265	mg/L	55.6	278	1.96	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	262	mg/L	55.6	278	1.96	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: 372964QC Batch: 115439
Prep Batch: 97624Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	72.1 - 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: 373070

QC Batch: 115442
 Prep Batch: 97627

Date Analyzed: 2014-09-12
 QC Preparation: 2014-09-12

Analyzed By: CF
 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 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: 115016

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-08-27

Standard (CCV-1)

QC Batch: 115016

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.83	97	90 - 110	2014-08-27

Standard (CCV-2)

QC Batch: 115016

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-08-27

Standard (CCV-2)

QC Batch: 115016

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.83	97	90 - 110	2014-08-27

Standard (CCV-3)

QC Batch: 115016

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.1	96	90 - 110	2014-08-27

Standard (CCV-3)

QC Batch: 115016

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.83	97	90 - 110	2014-08-27

Standard (CCV-4)

QC Batch: 115016

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.1	96	90 - 110	2014-08-27

Standard (CCV-4)

QC Batch: 115016

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.85	97	90 - 110	2014-08-27

Standard (ICV-1)

QC Batch: 115439

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-09-12

Standard (CCV-1)

QC Batch: 115439

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-09-12

Standard (ICV-1)

QC Batch: 115442

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-12

Standard (CCV-1)

QC Batch: 115442

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-09-12

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.

14082630

TraceAnalysis, Inc.

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

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):

Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048

Project #: 441971

Isaac Dominguez 575-649-7040

Project Name: Dominguez Dairy #2

Project Location (including state):

Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM

Sampler Signature: *JAY*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		
				WATER	AIR	SOIL	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
961-1	42-2	1	250	X				X			X		8-26-14	10:06
↓ -2	42-2	1	250	X				X			X			10:00
962-1	42-3	1	250	X				X			X		7:37	7:37
↓ -2	42-3	1	250	X				X			X		7:37	7:37
963-1	42-6	1	250	X				X			X		9:30	9:30
↓ -2	42-6	1	250	X				X			X		9:30	9:30
964-1	42-8	1	250	X				X			X		10:34	10:34
964-1	42-8	1	250	X				X			X		10:34	10:34
↓ -2	42-8	1	250	X				X			X		10:34	10:34
965-1	42-9	1	250	X				X			X		9:06	9:06
↓ -2	42-9	1	250	X				X			X		9:06	9:06
966-1	42-10	1	250	X				X			X		12:37	12:37
↓ -2	42-10	1	250	X				X			X		12:37	12:37
967-1	42- LAGOON	1	250	X				X			X		8:05	8:05
↓ -2	42- LAGOON	1	250	X				X			X		8:05	8:05

Relinquished By: *JAY* Date: 8-20-14 13:55
 Received By: *[Signature]* Date: 8-26-14 13:55
 Intact Y N
 Headspace Y N
 Temp 0/0 C
 Log-in Room 8244

Remarks: *Received on ice by JAY*
 Dry Weight Basis Required
 TRRP Report Required

LAB Order ID # 14082630

Page 1 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

CAN 7 Fry/LSO 48891776

(6.3°)



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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

Edward Deruyder
Big Sky Dairy
17800 Stern Drive
P.O. Box 10
Mesquite, NM, 88048

Report Date: September 15, 2014

Work Order: 14082524



DP: 441985
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
372868	833-02	water	2014-08-25	11:08	2014-08-25

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
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2014-08-25 and assigned to work order 14082524. Samples for work order 14082524 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	97185	2014-08-25 at 17:55	114922	2014-08-25 at 17:55
NO3 (IC)	E 300.0	97185	2014-08-25 at 17:55	114922	2014-08-25 at 17:55
TDS	SM 2540C	97207	2014-08-26 at 14:40	114947	2014-08-26 at 14:40
TKN	SM 4500-NH3 B,C	97624	2014-09-12 at 16:30	115439	2014-09-12 at 19:00

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 14082524 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: 372868 - 833-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	528	528	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372868 - 833-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114922 Date Analyzed: 2014-08-25 Analyzed By: JR
 Prep Batch: 97185 Sample Preparation: 2014-08-25 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	24.8	24.8	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372868 - 833-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114947 Date Analyzed: 2014-08-26 Analyzed By: MC
 Prep Batch: 97207 Sample Preparation: 2014-08-26 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2090	2090	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372868 - 833-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115439 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97624 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Total Kjeldahl Nitrogen - N	u	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114947
Prep Batch: 97207Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115439
Prep Batch: 97624Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Report Date: September 15, 2014

Work Order: 14082524
Big Sky Dairy

Page Number: 7 of 17
17800 Stern Drive, Mesquite, NM 88048

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372961

QC Batch: 114947
Prep Batch: 97207

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2300	2350	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114922
Prep Batch: 97185

Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.3	mg/L	1	25.0	<0.00680	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.3	mg/L	1	25.0	<0.00680	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: 114922
Prep Batch: 97185

Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.82	mg/L	1	5.00	<0.0251	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.82	mg/L	1	5.00	<0.0251	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: 114947
Prep Batch: 97207

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	997	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	997	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: 115439
Prep Batch: 97624

Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 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: 372865QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1790	mg/L	55.6	1390	413	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							
Chloride		1,4,5	1780	mg/L	55.6	1390	413	98	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: 372865QC Batch: 114922
Prep Batch: 97185Date Analyzed: 2014-08-25
QC Preparation: 2014-08-25Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	276	mg/L	55.6	278	7.64	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	274	mg/L	55.6	278	7.64	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: 372964QC Batch: 115439
Prep Batch: 97624Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	72.1 - 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		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	72.1 - 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: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.9	96	90 - 110	2014-08-25

Standard (CCV-2)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.82	96	90 - 110	2014-08-25

Standard (CCV-3)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.0	96	90 - 110	2014-08-25

Standard (CCV-3)

QC Batch: 114922

Date Analyzed: 2014-08-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.84	97	90 - 110	2014-08-25

Standard (ICV-1)

QC Batch: 115439

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-09-12

Standard (CCV-1)

QC Batch: 115439

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-09-12

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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

Linda Armstrong
 Dona Ana Dairies

Report Date: September 16, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14082936



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
373393	DAD-01	Water	2014-08-29	08:24	2014-08-29
373394	DAD-02	Water	2014-08-29	08:51	2014-08-29
373395	DAD-03	Water	2014-08-29	09:19	2014-08-29
373396	DAD-04	Water	2014-08-29	09:51	2014-08-29
373397	DAD-05	Water	2014-08-29	11:16	2014-08-29

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dona Ana Dairies were received by TraceAnalysis, Inc. on 2014-08-29 and assigned to work order 14082936. Samples for work order 14082936 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	97333	2014-08-29 at 17:18	115098	2014-08-29 at 17:18
NO3 (IC)	E 300.0	97333	2014-08-29 at 17:18	115098	2014-08-29 at 17:18
TDS	SM 2540C	97358	2014-09-02 at 11:45	115126	2014-09-03 at 12:23
TDS	SM 2540C	97414	2014-09-04 at 12:50	115188	2014-09-04 at 12:50
TKN	SM 4500-NH3 B,C	97650	2014-09-15 at 11:30	115477	2014-09-15 at 14:45

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14082936 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: 373393 - DAD-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
 Prep Batch: 97333 Sample Preparation: 2014-08-29 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	425	425	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 373393 - DAD-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
 Prep Batch: 97333 Sample Preparation: 2014-08-29 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	8.28	8.28	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373393 - DAD-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115126 Date Analyzed: 2014-09-03 Analyzed By: MC
 Prep Batch: 97358 Sample Preparation: 2014-09-02 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1830	1830	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373393 - DAD-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115477 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97650 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373394 - DAD-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
 Prep Batch: 97333 Sample Preparation: 2014-08-29 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	451	451	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373394 - DAD-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
 Prep Batch: 97333 Sample Preparation: 2014-08-29 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	7.05	7.05	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373394 - DAD-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115126 Date Analyzed: 2014-09-03 Analyzed By: MC
 Prep Batch: 97358 Sample Preparation: 2014-09-02 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1690	1690	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373394 - DAD-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115477 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97650 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373395 - DAD-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
 Prep Batch: 97333 Sample Preparation: 2014-08-29 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	686	686	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373395 - DAD-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
 Prep Batch: 97333 Sample Preparation: 2014-08-29 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	U	1,4,5	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373395 - DAD-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115126 Date Analyzed: 2014-09-03 Analyzed By: MC
 Prep Batch: 97358 Sample Preparation: 2014-09-02 Prepared By: MC

continued . . .

sample 373395 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2890	2890	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373395 - DAD-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115477 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97650 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373396 - DAD-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
 Prep Batch: 97333 Sample Preparation: 2014-08-29 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	483	483	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373396 - DAD-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
 Prep Batch: 97333 Sample Preparation: 2014-08-29 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1,4,5	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373396 - DAD-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115188 Date Analyzed: 2014-09-04 Analyzed By: MC
 Prep Batch: 97414 Sample Preparation: 2014-09-04 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		1,4,5	2060	2060	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373396 - DAD-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115477 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97650 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373397 - DAD-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
 Prep Batch: 97333 Sample Preparation: 2014-08-29 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	230	230	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 373397 - DAD-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
 Prep Batch: 97333 Sample Preparation: 2014-08-29 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	1.87	1.87	<0.0251	mg/L	1	0.0251	0.5	0.0251

Sample: 373397 - DAD-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115188 Date Analyzed: 2014-09-04 Analyzed By: MC
 Prep Batch: 97414 Sample Preparation: 2014-09-04 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		1,4,5	1200	1200	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373397 - DAD-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115477 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97650 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 115098
Prep Batch: 97333Date Analyzed: 2014-08-29
QC Preparation: 2014-08-29Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 115098
Prep Batch: 97333Date Analyzed: 2014-08-29
QC Preparation: 2014-08-29Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 115126
Prep Batch: 97358Date Analyzed: 2014-09-03
QC Preparation: 2014-09-02Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115188
Prep Batch: 97414Date Analyzed: 2014-09-04
QC Preparation: 2014-09-04Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115477
 Prep Batch: 97650

Date Analyzed: 2014-09-15
 QC Preparation: 2014-09-15

Analyzed By: CF
 Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 373395QC Batch: 115126
Prep Batch: 97358Date Analyzed: 2014-09-03
QC Preparation: 2014-09-02Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2790	2890	mg/L	1	4	10

Duplicate (1) Duplicated Sample: 373520QC Batch: 115188
Prep Batch: 97414Date Analyzed: 2014-09-04
QC Preparation: 2014-09-04Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2420	2300	mg/L	1	5	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 115098
Prep Batch: 97333

Date Analyzed: 2014-08-29
QC Preparation: 2014-08-29

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.2	mg/L	1	25.0	<0.00680	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.1	mg/L	1	25.0	<0.00680	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: 115098
Prep Batch: 97333

Date Analyzed: 2014-08-29
QC Preparation: 2014-08-29

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.79	mg/L	1	5.00	<0.0251	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.79	mg/L	1	5.00	<0.0251	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: 115126
Prep Batch: 97358

Date Analyzed: 2014-09-03
QC Preparation: 2014-09-02

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	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.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 373397

QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
Prep Batch: 97333 QC Preparation: 2014-08-29 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	1600	mg/L	55.6	1390	230	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
Chloride		1,4,5	1600	mg/L	55.6	1390	230	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: 373397

QC Batch: 115098 Date Analyzed: 2014-08-29 Analyzed By: JR
Prep Batch: 97333 QC Preparation: 2014-08-29 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	269	mg/L	55.6	278	1.87	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		1,4,5	268	mg/L	55.6	278	1.87	96	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: 373397

QC Batch: 115477 Date Analyzed: 2014-09-15 Analyzed By: CF
Prep Batch: 97650 QC Preparation: 2014-09-15 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 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		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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: 115098

Date Analyzed: 2014-08-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.2	97	90 - 110	2014-08-29

Standard (CCV-1)

QC Batch: 115098

Date Analyzed: 2014-08-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.81	96	90 - 110	2014-08-29

Standard (CCV-2)

QC Batch: 115098

Date Analyzed: 2014-08-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.3	97	90 - 110	2014-08-29

Standard (CCV-2)

QC Batch: 115098

Date Analyzed: 2014-08-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.82	96	90 - 110	2014-08-29

Standard (CCV-3)

QC Batch: 115098

Date Analyzed: 2014-08-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.3	97	90 - 110	2014-08-29

Standard (CCV-3)

QC Batch: 115098

Date Analyzed: 2014-08-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.82	96	90 - 110	2014-08-29

Standard (CCV-4)

QC Batch: 115098

Date Analyzed: 2014-08-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.3	97	90 - 110	2014-08-29

Standard (CCV-4)

QC Batch: 115098

Date Analyzed: 2014-08-29

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.84	97	90 - 110	2014-08-29

Standard (ICV-1)

QC Batch: 115477

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-15

Standard (CCV-1)

QC Batch: 115477

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-09-15

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jerry Settles
 Del Oro Dairy, LLC.
 1025 East O'Hara
 P.O. Box 1846
 Anthony, NM, 88021

Report Date: September 16, 2014

Work Order: 14082825



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
373178	692-04	water	2014-08-28	07:52	2014-08-28
373179	692-09	water	2014-08-28	08:22	2014-08-28

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.

Dr. Blair Leftwich, Director
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2014-08-28 and assigned to work order 14082825. Samples for work order 14082825 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	97292	2014-08-28 at 16:51	115049	2014-08-28 at 16:51
NO3 (IC)	E 300.0	97292	2014-08-28 at 16:51	115049	2014-08-28 at 16:51
TDS	SM 2540C	97358	2014-09-02 at 11:45	115126	2014-09-03 at 12:23
TKN	SM 4500-NH3 B,C	97649	2014-09-15 at 11:30	115476	2014-09-15 at 14:45
TKN	SM 4500-NH3 B,C	97650	2014-09-15 at 11:30	115477	2014-09-15 at 14:45

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14082825 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. 115049 Method Blank-1	Nitrate-N	MI5	Baseline correction

Analytical Report

Sample: 373178 - 692-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	508	508	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373178 - 692-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	B,MI5	1,4,5	32.5	32.5	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373178 - 692-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115126 Date Analyzed: 2014-09-03 Analyzed By: MC
 Prep Batch: 97358 Sample Preparation: 2014-09-02 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2060	2060	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373178 - 692-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115476 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97649 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373179 - 692-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	418	418	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 373179 - 692-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	B,MI5	1,4,5	4.36	4.36	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373179 - 692-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115126 Date Analyzed: 2014-09-03 Analyzed By: MC
 Prep Batch: 97358 Sample Preparation: 2014-09-02 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1450	1450	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373179 - 692-09

Report Date: September 16, 2014

Work Order: 14082825
Del Oro Dairy

Page Number: 6 of 19
1025 East OHara, Anthony, NM

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 115477 Date Analyzed: 2014-09-15 Analyzed By: CF
Prep Batch: 97650 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 115049
Prep Batch: 97292Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 115049
Prep Batch: 97292Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N	B,MI5	1,4,5	0.177	mg/L	0.0251

Method Blank (1)

QC Batch: 115126
Prep Batch: 97358Date Analyzed: 2014-09-03
QC Preparation: 2014-09-02Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115476
Prep Batch: 97649Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15Analyzed By: CF
Prepared By: CF

Report Date: September 16, 2014

Work Order: 14082825
Del Oro Dairy

Page Number: 8 of 19
1025 East OHara, Anthony, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 115477
Prep Batch: 97650

Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 373395

QC Batch: 115126
Prep Batch: 97358

Date Analyzed: 2014-09-03
QC Preparation: 2014-09-02

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2790	2890	mg/L	1	4	10

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 373173QC Batch: 115049
Prep Batch: 97292Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1810	mg/L	55.6	1390	445	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							
Chloride		1,4,5	1770	mg/L	55.6	1390	445	95	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: 373173QC Batch: 115049
Prep Batch: 97292Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	285	mg/L	55.6	278	17	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	276	mg/L	55.6	278	17	93	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: 373178QC Batch: 115476
Prep Batch: 97649Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	46.2	mg/L	1	50.0	<1.80	92	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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: 373397

QC Batch: 115477
Prep Batch: 97650

Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.3	97	90 - 110	2014-08-28

Standard (CCV-2)

QC Batch: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.82	96	90 - 110	2014-08-28

Standard (CCV-3)

QC Batch: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.4	98	90 - 110	2014-08-28

Standard (CCV-3)

QC Batch: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.83	97	90 - 110	2014-08-28

Standard (CCV-4)

QC Batch: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.4	98	90 - 110	2014-08-28

Standard (CCV-4)

QC Batch: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.84	97	90 - 110	2014-08-28

Standard (ICV-1)

QC Batch: 115476

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-15

Standard (CCV-1)

QC Batch: 115476

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-09-15

Standard (ICV-1)

QC Batch: 115477

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-15

Standard (CCV-1)

QC Batch: 115477

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-09-15

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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 # 14082825

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	

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):
Del Oro Dairy, PO Box 1846, Anthony, TX 88021

Project #: Jerry Settles 575-882-4331
 Project Name: Del Oro Dairy
 Sampler Signature: [Signature]

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
373178-1	692-04	1	250	X				X				8-26-14	7:52
373178-1	692-04	1	250	X				X					7:52
373178-1	692-09	1	250	X				X					8:22
373178-1	692-09	1	250	X				X					8:22

Relinquished By: [Signature] Date: 8-26-14 Time: 12:45
 Received By: [Signature] Date: 8-28-14 Time: 12:45
 Relinquished By: [Signature] Date: 8-26-14 Time: 16:30
 Received at Laboratory By: [Signature] Date: 8/29/14 Time: 9:15

Lab Use Only
 Intact Y / N
 Headspace Y / N
 Temp 37.0 / 40.0
 Log-in Review Y / N

Remarks: (40.0)
3-7-12
 Dry Weight Basis Required
 TRRP Report Required

15048891774



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Dona Ana Dairies

Report Date: September 16, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14082824



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
373173	DAD-10	water	2014-08-28	12:11	2014-08-28
373174	DAD-09	water	2014-08-28	09:42	2014-08-28
373175	DAD-20	water	2014-08-28	11:18	2014-08-28
373176	DAD-21	water	2014-08-28	09:18	2014-08-28
373177	DAD-22	water	2014-08-28	10:15	2014-08-28

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2014-08-28 and assigned to work order 14082824. Samples for work order 14082824 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	97292	2014-08-28 at 16:51	115049	2014-08-28 at 16:51
NO3 (IC)	E 300.0	97292	2014-08-28 at 16:51	115049	2014-08-28 at 16:51
TDS	SM 2540C	97358	2014-09-02 at 11:45	115126	2014-09-03 at 12:23
TKN	SM 4500-NH3 B,C	97649	2014-09-15 at 11:30	115476	2014-09-15 at 14:45

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14082824 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. 115049 Method Blank-1	Nitrate-N	MI5	Baseline correction

Analytical Report

Sample: 373173 - DAD-10

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	445	445	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 373173 - DAD-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	B,MI5	1,4,6	17.0	17.0	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373173 - DAD-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115126 Date Analyzed: 2014-09-03 Analyzed By: MC
 Prep Batch: 97358 Sample Preparation: 2014-09-02 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	1740	1740	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373173 - DAD-10

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115476 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97649 Sample Preparation: 2014-09-15 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	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373174 - DAD-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	466	466	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 373174 - DAD-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	B,MI5	1,4,6	5.25	5.25	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373174 - DAD-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115126 Date Analyzed: 2014-09-03 Analyzed By: MC
 Prep Batch: 97358 Sample Preparation: 2014-09-02 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		1,4,6	1720	1720	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373174 - DAD-09

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115476 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97649 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373175 - DAD-20

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	603	603	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373175 - DAD-20

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	B,MI5	1,4,6	19.3	19.3	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373175 - DAD-20

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115126 Date Analyzed: 2014-09-03 Analyzed By: MC
 Prep Batch: 97358 Sample Preparation: 2014-09-02 Prepared By: MC

continued . . .

sample 373175 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	2400	2400	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373175 - DAD-20

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115476 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97649 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373176 - DAD-21

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	520	520	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373176 - DAD-21

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	B,MI5	1,4,6	13.0	13.0	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373176 - DAD-21

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115126 Date Analyzed: 2014-09-03 Analyzed By: MC
 Prep Batch: 97358 Sample Preparation: 2014-09-02 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	2080	2080	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373176 - DAD-21

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115476 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97649 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373177 - DAD-22

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	810	810	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373177 - DAD-22

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115049 Date Analyzed: 2014-08-28 Analyzed By: JR
 Prep Batch: 97292 Sample Preparation: 2014-08-28 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	B,MI5	1,4,6	6.60	6.60	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373177 - DAD-22

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115126 Date Analyzed: 2014-09-03 Analyzed By: MC
 Prep Batch: 97358 Sample Preparation: 2014-09-02 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	2420	2420	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373177 - DAD-22

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115476 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97649 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 115049
Prep Batch: 97292Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 115049
Prep Batch: 97292Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N	B,MI5	1,4,6	0.177	mg/L	0.0251

Method Blank (1)

QC Batch: 115126
Prep Batch: 97358Date Analyzed: 2014-09-03
QC Preparation: 2014-09-02Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115476
Prep Batch: 97649Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,9	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 373395

QC Batch: 115126
 Prep Batch: 97358

Date Analyzed: 2014-09-03
 QC Preparation: 2014-09-02

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2790	2890	mg/L	1	4	10

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	997	mg/L	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: 115476
 Prep Batch: 97649

Date Analyzed: 2014-09-15
 QC Preparation: 2014-09-15

Analyzed By: CF
 Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 373173QC Batch: 115049
Prep Batch: 97292Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	1810	mg/L	55.6	1390	445	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
Chloride		1,4,6	1770	mg/L	55.6	1390	445	95	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: 373173QC Batch: 115049
Prep Batch: 97292Date Analyzed: 2014-08-28
QC Preparation: 2014-08-28Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	285	mg/L	55.6	278	17	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		1,4,6	276	mg/L	55.6	278	17	93	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: 373178QC Batch: 115476
Prep Batch: 97649Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	46.2	mg/L	1	50.0	<1.80	92	72.1 - 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		2,3,7,9	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.2	97	90 - 110	2014-08-28

Standard (CCV-1)

QC Batch: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.82	96	90 - 110	2014-08-28

Standard (CCV-2)

QC Batch: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.3	97	90 - 110	2014-08-28

Standard (CCV-2)

QC Batch: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.82	96	90 - 110	2014-08-28

Standard (CCV-3)

QC Batch: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.4	98	90 - 110	2014-08-28

Standard (CCV-3)

QC Batch: 115049

Date Analyzed: 2014-08-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.83	97	90 - 110	2014-08-28

Standard (ICV-1)

QC Batch: 115476

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.34	87	85 - 115	2014-09-15

Standard (CCV-1)

QC Batch: 115476

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.48	90	85 - 115	2014-09-15

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8	NELAP	T104704392-14-8	Midland
9		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.

F Description

Qsr Surrogate recovery outside of laboratory limits.

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Isaac Dominguez
 Dominguez Dairy #2
 13600 Stern Drive
 P. O. Box 21
 Mesquite, NM, 88048

Report Date: September 16, 2014

Work Order: 14082734



Project Location: 13600 Stern Drive, Mesquite, NM
 Project Name: Dominguez Dairy #2 441971
 Project #: 441971

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
373073	42-11	water	2014-08-27	09:22	2014-08-27
373074	42-13	water	2014-08-27	09:48	2014-08-27

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 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.

Dr. Blair Leftwich, Director
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dominguez Dairy #2 441971 were received by TraceAnalysis, Inc. on 2014-08-27 and assigned to work order 14082734. Samples for work order 14082734 were received intact at a temperature of 3.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	97291	2014-08-27 at 20:09	115048	2014-08-27 at 20:09
NO3 (IC)	E 300.0	97291	2014-08-27 at 20:09	115048	2014-08-27 at 20:09
TDS	SM 2540C	97305	2014-08-29 at 14:25	115068	2014-08-29 at 14:25
TKN	SM 4500-NH3 B,C	97649	2014-09-15 at 11:30	115476	2014-09-15 at 14:45

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14082734 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: 373073 - 42-11

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	295	295	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 373073 - 42-11

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 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	J 1,4,6	1.78	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373073 - 42-11

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115068 Date Analyzed: 2014-08-29 Analyzed By: MC
 Prep Batch: 97305 Sample Preparation: 2014-08-29 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		1,4,6	1200	1200	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373073 - 42-11

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115476 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97649 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,9	6.30	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373074 - 42-13

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	927	927	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373074 - 42-13

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	77.9	77.9	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 373074 - 42-13

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115068 Date Analyzed: 2014-08-29 Analyzed By: MC
 Prep Batch: 97305 Sample Preparation: 2014-08-29 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	3490	3490	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373074 - 42-13

Report Date: September 16, 2014

Work Order: 14082734
Dominguez Dairy #2 441971

Page Number: 6 of 18
13600 Stern Drive, Mesquite, NM

Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-09-15	Analyzed By:	CF
QC Batch:	115476	Sample Preparation:	2014-09-15	Prepared By:	CF
Prep Batch:	97649				

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,7,9	2.10	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 115048
Prep Batch: 97291Date Analyzed: 2014-08-27
QC Preparation: 2014-08-27Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 115048
Prep Batch: 97291Date Analyzed: 2014-08-27
QC Preparation: 2014-08-27Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 115068
Prep Batch: 97305Date Analyzed: 2014-08-29
QC Preparation: 2014-08-29Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115476
Prep Batch: 97649Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15Analyzed By: CF
Prepared By: CF

Report Date: September 16, 2014

Work Order: 14082734
Dominguez Dairy #2 441971

Page Number: 8 of 18
13600 Stern Drive, Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,9	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 373074

QC Batch: 115068
 Prep Batch: 97305

Date Analyzed: 2014-08-29
 QC Preparation: 2014-08-29

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	3360	3490	mg/L	1	4	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 115048
 Prep Batch: 97291

Date Analyzed: 2014-08-27
 QC Preparation: 2014-08-27

Analyzed By: JR
 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.2	mg/L	1	25.0	<0.00680	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. Limit	RPD	RPD Limit
Chloride		1,4,6	25.2	mg/L	1	25.0	<0.00680	101	90 - 110	0 20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 115048
 Prep Batch: 97291

Date Analyzed: 2014-08-27
 QC Preparation: 2014-08-27

Analyzed By: JR
 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.99	mg/L	1	5.00	<0.0251	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	5.00	mg/L	1	5.00	<0.0251	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: 115068
 Prep Batch: 97305

Date Analyzed: 2014-08-29
 QC Preparation: 2014-08-29

Analyzed By: MC
 Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	997	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	997	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: 115476
 Prep Batch: 97649

Date Analyzed: 2014-09-15
 QC Preparation: 2014-09-15

Analyzed By: CF
 Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 373073

QC Batch: 115048
Prep Batch: 97291Date Analyzed: 2014-08-27
QC Preparation: 2014-08-27Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	1720	mg/L	55.6	1390	295	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		1,4,6	1720	mg/L	55.6	1390	295	102	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 373073

QC Batch: 115048
Prep Batch: 97291Date Analyzed: 2014-08-27
QC Preparation: 2014-08-27Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	278	mg/L	55.6	278	1.78	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	278	mg/L	55.6	278	1.78	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: 373178

QC Batch: 115476
Prep Batch: 97649Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	46.2	mg/L	1	50.0	<1.80	92	72.1 - 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		2,3,7,9	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-4)

QC Batch: 115048

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.3	97	90 - 110	2014-08-27

Standard (CCV-4)

QC Batch: 115048

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.84	97	90 - 110	2014-08-27

Standard (ICV-1)

QC Batch: 115476

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.34	87	85 - 115	2014-09-15

Standard (CCV-1)

QC Batch: 115476

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.48	90	85 - 115	2014-09-15

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8	NELAP	T104704392-14-8	Midland
9		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.

F	Description
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Result Comments

- 1 Result for sample ran for Nitrate at dilution x1 was 1.30 mg/L on 8-29-14.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

14082734

6701 Aberdeen, Ste. 9
Lubbock, TX 79424
Tel (806) 794-1296
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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
E-mail: vayala@dhpump.com

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 #: 441971
Project Name: Dominguez Dairy #2
Sampler Signature: *JMB*

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 ₃	H ₂ SO ₄	NaOH	ICE	NONE
271073	42-11	1	250	X				X	X	X	X	8-27-14	9:22
1-2	42-11	1	250	X				X	X	X	X	9:22	9:22
74	42-13	1	250	X				X	X	X	X	9:48	9:48
1-2	42-13	1	250	X				X	X	X	X	9:48	9:48
		1		X				X	X	X	X		
		1		X				X	X	X	X		

Relinquished By: *JMB* Date: 8-26-14 Time: 14:18
 Relinquished By: *Dyde H. TA* Date: 8-27-14 Time: 16:30
 Received By: *Dyde H. TA* Date: 8-27-14 Time: 14:18
 Received at Laboratory By: *BC, TA* Date: 8/28/14 Time: 8:30 AM
 Lab Use Only: Intact N Headspace Y
 Temp/R-2 3/20
 Log-in Review *JMB*
 Remarks: Temp 4.4 - BC
 Dry Weight Basis Required
 TRRP Report Required
 CARRY IN

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
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	



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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

Jerry Settles
Del Oro Dairy, LLC.
1025 East O'Hara
P.O. Box 1846
Anthony, NM, 88021

Report Date: September 16, 2014

Work Order: 14082733



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
373067	692-01	water	2014-08-27	13:07	2014-08-27
373068	692-02	water	2014-08-27	13:59	2014-08-27
373069	692-05	water	2014-08-27	10:36	2014-08-27
373070	692-06	water	2014-08-27	11:56	2014-08-27
373071	692-08	water	2014-08-27	12:22	2014-08-27
373072	692-Lagoon	water	2014-08-27	10:49	2014-08-27

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 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2014-08-27 and assigned to work order 14082733. Samples for work order 14082733 were received intact at a temperature of 3.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	97291	2014-08-27 at 20:09	115048	2014-08-27 at 20:09
NO3 (IC)	E 300.0	97291	2014-08-27 at 20:09	115048	2014-08-27 at 20:09
TDS	SM 2540C	97305	2014-08-29 at 14:25	115068	2014-08-29 at 14:25
TKN	SM 4500-NH3 B,C	97627	2014-09-12 at 16:30	115442	2014-09-12 at 19:00
TKN	SM 4500-NH3 B,C	97649	2014-09-15 at 11:30	115476	2014-09-15 at 14:45

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14082733 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: 373067 - 692-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	643	643	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373067 - 692-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	95.6	95.6	<1.26	mg/L	50	1.26	0.5	0.0251

Sample: 373067 - 692-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115068 Date Analyzed: 2014-08-29 Analyzed By: MC
 Prep Batch: 97305 Sample Preparation: 2014-08-29 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2910	2910	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373067 - 692-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115442 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97627 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,8	9.10	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373068 - 692-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	909	909	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373068 - 692-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	132	132	<1.26	mg/L	50	1.26	0.5	0.0251

Sample: 373068 - 692-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115068 Date Analyzed: 2014-08-29 Analyzed By: MC
 Prep Batch: 97305 Sample Preparation: 2014-08-29 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3510	3510	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373068 - 692-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115442 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97627 Sample Preparation: 2014-09-12 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,8	2.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373069 - 692-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	424	424	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 373069 - 692-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	5.78	5.78	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373069 - 692-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115068 Date Analyzed: 2014-08-29 Analyzed By: MC
 Prep Batch: 97305 Sample Preparation: 2014-08-29 Prepared By: MC

continued . . .

sample 373069 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1340	1340	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373069 - 692-05

Laboratory: Lubbock

Analysis: TKN

QC Batch: 115442

Prep Batch: 97627

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-09-12

Sample Preparation: 2014-09-12

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	2,3,6,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373070 - 692-06

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 115048

Prep Batch: 97291

Analytical Method: E 300.0

Date Analyzed: 2014-08-27

Sample Preparation: 2014-08-27

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	434	434	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 373070 - 692-06

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 115048

Prep Batch: 97291

Analytical Method: E 300.0

Date Analyzed: 2014-08-27

Sample Preparation: 2014-08-27

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	3.77	3.77	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373070 - 692-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115068 Date Analyzed: 2014-08-29 Analyzed By: MC
 Prep Batch: 97305 Sample Preparation: 2014-08-29 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1420	1420	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373070 - 692-06

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115442 Date Analyzed: 2014-09-12 Analyzed By: CF
 Prep Batch: 97627 Sample Preparation: 2014-09-12 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	2,3,6,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373071 - 692-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	418	418	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 373071 - 692-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	2.71	2.71	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373071 - 692-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115068 Date Analyzed: 2014-08-29 Analyzed By: MC
 Prep Batch: 97305 Sample Preparation: 2014-08-29 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1300	1300	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373071 - 692-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115476 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97649 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373072 - 692-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

continued ...

sample 373072 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	3320	3320	<0.680	mg/L	100	0.680	2.5	0.0068

Sample: 373072 - 692-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115048 Date Analyzed: 2014-08-27 Analyzed By: JR
 Prep Batch: 97291 Sample Preparation: 2014-08-27 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	5.83	5.83	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 373072 - 692-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115068 Date Analyzed: 2014-08-29 Analyzed By: MC
 Prep Batch: 97305 Sample Preparation: 2014-08-29 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	20500	20500	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373072 - 692-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115476 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97649 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,8	522	522	<9.00	mg/L	5	9.00	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 115048
Prep Batch: 97291Date Analyzed: 2014-08-27
QC Preparation: 2014-08-27Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 115048
Prep Batch: 97291Date Analyzed: 2014-08-27
QC Preparation: 2014-08-27Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 115068
Prep Batch: 97305Date Analyzed: 2014-08-29
QC Preparation: 2014-08-29Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115442
Prep Batch: 97627Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,8	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 115476
Prep Batch: 97649

Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 373074

QC Batch: 115068
 Prep Batch: 97305

Date Analyzed: 2014-08-29
 QC Preparation: 2014-08-29

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	3360	3490	mg/L	1	4	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 115048
Prep Batch: 97291Date Analyzed: 2014-08-27
QC Preparation: 2014-08-27Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	25.2	mg/L	1	25.0	<0.00680	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
Chloride		1,4,5	25.2	mg/L	1	25.0	<0.00680	101	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 115048
Prep Batch: 97291Date Analyzed: 2014-08-27
QC Preparation: 2014-08-27Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.99	mg/L	1	5.00	<0.0251	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	5.00	mg/L	1	5.00	<0.0251	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: 115068
Prep Batch: 97305Date Analyzed: 2014-08-29
QC Preparation: 2014-08-29Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	997	mg/L	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		1,4,5	997	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: 115442
Prep Batch: 97627

Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,8	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,8	44.1	mg/L	1	50.0	<1.80	88	80.7 - 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: 115476
Prep Batch: 97649

Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,8	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 373073QC Batch: 115048
Prep Batch: 97291Date Analyzed: 2014-08-27
QC Preparation: 2014-08-27Analyzed By: JR
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1,4,5	1720	mg/L	55.6	1390	295	102	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1,4,5	1720	mg/L	55.6	1390	295	102	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 373073QC Batch: 115048
Prep Batch: 97291Date Analyzed: 2014-08-27
QC Preparation: 2014-08-27Analyzed By: JR
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1,4,5	278	mg/L	55.6	278	1.78	99	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1,4,5	278	mg/L	55.6	278	1.78	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: 373070QC Batch: 115442
Prep Batch: 97627Date Analyzed: 2014-09-12
QC Preparation: 2014-09-12Analyzed By: CF
Prepared By: CF

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2,3,6,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,8	44.8	mg/L	1	50.0	<1.80	90	72.1 - 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: 373178

QC Batch: 115476
Prep Batch: 97649

Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,8	46.2	mg/L	1	50.0	<1.80	92	72.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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: 115048

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.1	96	90 - 110	2014-08-27

Standard (CCV-1)

QC Batch: 115048

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.80	96	90 - 110	2014-08-27

Standard (CCV-2)

QC Batch: 115048

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.2	97	90 - 110	2014-08-27

Standard (CCV-2)

QC Batch: 115048

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.81	96	90 - 110	2014-08-27

Standard (CCV-3)

QC Batch: 115048

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.3	97	90 - 110	2014-08-27

Standard (CCV-3)

QC Batch: 115048

Date Analyzed: 2014-08-27

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.83	97	90 - 110	2014-08-27

Standard (ICV-1)

QC Batch: 115442

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,8	mg/L	5.00	4.34	87	85 - 115	2014-09-12

Standard (CCV-1)

QC Batch: 115442

Date Analyzed: 2014-09-12

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,8	mg/L	5.00	4.62	92	85 - 115	2014-09-12

Standard (ICV-1)

QC Batch: 115476

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,8	mg/L	5.00	4.34	87	85 - 115	2014-09-15

Standard (CCV-1)

QC Batch: 115476

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,8	mg/L	5.00	4.48	90	85 - 115	2014-09-15

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7	NELAP	T104704392-14-8	Midland
8		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

F Description

U The analyte is not detected above the SDL

Result Comments

- 1 Lagoon Sample was very thick only 1 ml of sample could be pipette with clogging at the rinse.

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

14082733

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

Invoice to (if different from above):

Del Oro Dairy, PO Box 1846, Anthony, TX 88021
Project #: _____

Jerry Settles 575-882-4331

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

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

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
373017	692-01	1	250	X				X					8-27-14	13:07
1-2	692-01	1	250	X				X					13:07	13:07
1-2	692-02	1	250	X				X					13:59	13:59
1-2	692-02	1	250	X				X					13:59	13:59
1-2	692-04	1	250	X				X						
1-2	692-05	1	250	X				X					10:36	
1-2	692-05	1	250	X				X					10:36	
1-2	692-06	1	250	X				X					11:56	
1-2	692-06	1	250	X				X					11:56	
1-2	692-07	1	250	X				X						
1-2	692-07	1	250	X				X						
1-2	692-08	1	250	X				X					12:22	
1-2	692-08	1	250	X				X					12:22	
1-2	692-08	1	250	X				X					10:49	
1-2	692-08	1	250	X				X					10:49	

Relinquished By: *JWS* Date: 8-27-14 Time: 14:18
Received By: *DJH* Date: 8-27-14 Time: 14:18
Relinquished By: *DJH* Date: 8-28-14 Time: 8:30am
Received By: *BJT* Date: 8/28/14 Time: 8:30am
(LSO 48891775)

LAB Order ID # 14082733
ANALYSIS REQUEST
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

Lab Use Only
Intact Y / N
Headspace Y / N
Temp/Bar Y / N
Log-in Review Y / N

Remarks: 4.4 ° temp - BC

Dry Weight Basis Required
TRRP Report Required

CARRY IN



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: September 17, 2014

Work Order: 14090337



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
373606	167-09	Water	2014-09-03	13:09	2014-09-03
373607	167-05	Water	2014-09-03	13:30	2014-09-03

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 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*.

Dr. Blair Leftwich, Director
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2014-09-03 and assigned to work order 14090337. Samples for work order 14090337 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	97398	2014-09-03 at 19:11	115172	2014-09-03 at 19:11
NO3 (IC)	E 300.0	97398	2014-09-03 at 19:11	115172	2014-09-03 at 19:11
TDS	SM 2540C	97449	2014-09-05 at 14:00	115238	2014-09-05 at 14:00
TKN	SM 4500-NH3 B,C	97681	2014-09-16 at 10:45	115508	2014-09-16 at 13:50

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 14090337 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: 373606 - 167-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	680	680	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373606 - 167-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	10.5	10.5	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373606 - 167-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115238 Date Analyzed: 2014-09-05 Analyzed By: MC
 Prep Batch: 97449 Sample Preparation: 2014-09-05 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		1,4,5	2980	2980	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373606 - 167-09

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115508 Date Analyzed: 2014-09-16 Analyzed By: CF
 Prep Batch: 97681 Sample Preparation: 2014-09-16 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373607 - 167-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,5	709	709	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373607 - 167-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	4.16	4.16	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373607 - 167-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115238 Date Analyzed: 2014-09-05 Analyzed By: MC
 Prep Batch: 97449 Sample Preparation: 2014-09-05 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		1,4,5	3240	3240	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373607 - 167-05

Report Date: September 17, 2014

Work Order: 14090337
River Valley Dairy, LLC

Page Number: 6 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:	2014-09-16	Analyzed By:	CF
QC Batch:	115508	Sample Preparation:	2014-09-16	Prepared By:	CF
Prep Batch:	97681				

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 115172
Prep Batch: 97398Date Analyzed: 2014-09-03
QC Preparation: 2014-09-03Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,4,5	1.30	mg/L	0.0068

Method Blank (1)

QC Batch: 115172
Prep Batch: 97398Date Analyzed: 2014-09-03
QC Preparation: 2014-09-03Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 115238
Prep Batch: 97449Date Analyzed: 2014-09-05
QC Preparation: 2014-09-05Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115508
Prep Batch: 97681Date Analyzed: 2014-09-16
QC Preparation: 2014-09-16Analyzed By: CF
Prepared By: CF

Report Date: September 17, 2014

Work Order: 14090337
River Valley Dairy, LLC

Page Number: 8 of 18
1400 La Chuga Rd., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 373604

QC Batch: 115238
 Prep Batch: 97449

Date Analyzed: 2014-09-05
 QC Preparation: 2014-09-05

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2920	2960	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 115172
Prep Batch: 97398

Date Analyzed: 2014-09-03
QC Preparation: 2014-09-03

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.2	mg/L	1	25.0	<0.00680	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
Chloride		1,4,5	24.3	mg/L	1	25.0	<0.00680	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: 115172
Prep Batch: 97398

Date Analyzed: 2014-09-03
QC Preparation: 2014-09-03

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.81	mg/L	1	5.00	<0.0251	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.83	mg/L	1	5.00	<0.0251	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: 115238
Prep Batch: 97449

Date Analyzed: 2014-09-05
QC Preparation: 2014-09-05

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	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: 115508
Prep Batch: 97681

Date Analyzed: 2014-09-16
QC Preparation: 2014-09-16

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	80.7 - 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: 373605QC Batch: 115172
Prep Batch: 97398Date Analyzed: 2014-09-03
QC Preparation: 2014-09-03Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1810	mg/L	55.6	1390	442	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							
Chloride		1,4,5	1810	mg/L	55.6	1390	442	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: 373605QC Batch: 115172
Prep Batch: 97398Date Analyzed: 2014-09-03
QC Preparation: 2014-09-03Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	269	mg/L	55.6	278	2.48	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	270	mg/L	55.6	278	2.48	96	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: 373607QC Batch: 115508
Prep Batch: 97681Date Analyzed: 2014-09-16
QC Preparation: 2014-09-16Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.1	96	90 - 110	2014-09-03

Standard (CCV-2)

QC Batch: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.77	95	90 - 110	2014-09-03

Standard (CCV-3)

QC Batch: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.1	96	90 - 110	2014-09-03

Standard (CCV-3)

QC Batch: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.79	96	90 - 110	2014-09-03

Standard (CCV-4)

QC Batch: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.1	96	90 - 110	2014-09-03

Standard (CCV-4)

QC Batch: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.80	96	90 - 110	2014-09-03

Standard (ICV-1)

QC Batch: 115508

Date Analyzed: 2014-09-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-16

Standard (CCV-1)

QC Batch: 115508

Date Analyzed: 2014-09-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-09-16

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.

14090337

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 #: _____

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

Project Name: Bruce Bonestroo 575-233-2061
River Valley Dairy, LLC
Sampler Signature: [Signature]

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

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					DATE	SAMPLING TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE		
167-09	167-09	1	250	X	X	X	X	X	X	X	X	X	9-3-14	13:09
573666-1	167-09	250	250	X	X	X	X	X	X	X	X	X	9-3-14	13:09
-2	167-09	250	250	X	X	X	X	X	X	X	X	X	13:09	13:30
167-1	167-05	250	250	X	X	X	X	X	X	X	X	X	13:30	13:31
-2	167-05	250	250	X	X	X	X	X	X	X	X	X	13:31	13:31

Relinquished By: [Signature] Date: 9-3-14 Time: 14:25
Received By: MR TAEP Date: 9-3-14 Time: 14:25
Relinquished By: WRC TAEP Date: 9-3-14 Time: 16:35
Received at Laboratory By: BC TA Date: 9-4-14 Time: 9:30
Temp: -6.7°C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 14090337

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

Lab Use Only
Intact YIN
Headspace YIN
Temp 16.50°C
Log-in Review PH 4/3/14

Remarks: ON DLE
TRW analysis in subbook
Carry In.
Dry Weight Basis Required
TRRP Report Required

LSO 48891772



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: September 17, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14090224



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
373515	DAD 07	water	2014-09-02	09:27	2014-09-02
373516	DAD 08	water	2014-09-02	10:06	2014-09-02
373517	DAD 13	water	2014-09-02	10:56	2014-09-02
373518	DAD 14	water	2014-09-02	11:45	2014-09-02
373519	DAD 15	water	2014-09-02	12:37	2014-09-02
373520	DAD 16	water	2014-09-02	13:29	2014-09-02

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 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dona Ana Dairies were received by TraceAnalysis, Inc. on 2014-09-02 and assigned to work order 14090224. Samples for work order 14090224 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	97370	2014-09-02 at 18:44	115140	2014-09-02 at 18:44
NO3 (IC)	E 300.0	97370	2014-09-02 at 18:44	115140	2014-09-02 at 18:44
TDS	SM 2540C	97414	2014-09-04 at 12:50	115188	2014-09-04 at 12:50
TKN	SM 4500-NH3 B,C	97650	2014-09-15 at 11:30	115477	2014-09-15 at 14:45
TKN	SM 4500-NH3 B,C	97680	2014-09-16 at 10:45	115507	2014-09-16 at 13:50

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 14090224 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: 373515 - DAD 07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115140 Date Analyzed: 2014-09-02 Analyzed By: JR
 Prep Batch: 97370 Sample Preparation: 2014-09-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	589	589	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373515 - DAD 07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115140 Date Analyzed: 2014-09-02 Analyzed By: JR
 Prep Batch: 97370 Sample Preparation: 2014-09-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	7.48	7.48	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373515 - DAD 07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115188 Date Analyzed: 2014-09-04 Analyzed By: MC
 Prep Batch: 97414 Sample Preparation: 2014-09-04 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		1,4,5	2150	2150	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373515 - DAD 07

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115477 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97650 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373516 - DAD 08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115140 Date Analyzed: 2014-09-02 Analyzed By: JR
 Prep Batch: 97370 Sample Preparation: 2014-09-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1700	1700	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373516 - DAD 08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115140 Date Analyzed: 2014-09-02 Analyzed By: JR
 Prep Batch: 97370 Sample Preparation: 2014-09-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	39.5	39.5	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373516 - DAD 08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115188 Date Analyzed: 2014-09-04 Analyzed By: MC
 Prep Batch: 97414 Sample Preparation: 2014-09-04 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		1,4,5	5220	5220	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373516 - DAD 08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115477 Date Analyzed: 2014-09-15 Analyzed By: CF
 Prep Batch: 97650 Sample Preparation: 2014-09-15 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373517 - DAD 13

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115140 Date Analyzed: 2014-09-02 Analyzed By: JR
 Prep Batch: 97370 Sample Preparation: 2014-09-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	386	386	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373517 - DAD 13

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115140 Date Analyzed: 2014-09-02 Analyzed By: JR
 Prep Batch: 97370 Sample Preparation: 2014-09-02 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	6.51	6.51	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373517 - DAD 13

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115188 Date Analyzed: 2014-09-04 Analyzed By: MC
 Prep Batch: 97414 Sample Preparation: 2014-09-04 Prepared By: MC

continued . . .

sample 373517 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1960	1960	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373517 - DAD 13

Laboratory: Lubbock

Analysis: TKN

QC Batch: 115477

Prep Batch: 97650

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-09-15

Sample Preparation: 2014-09-15

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373518 - DAD 14

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 115140

Prep Batch: 97370

Analytical Method: E 300.0

Date Analyzed: 2014-09-02

Sample Preparation: 2014-09-02

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		1,4,5	878	878	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373518 - DAD 14

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 115140

Prep Batch: 97370

Analytical Method: E 300.0

Date Analyzed: 2014-09-02

Sample Preparation: 2014-09-02

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		1,4,5	26.7	26.7	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373518 - DAD 14

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115188 Date Analyzed: 2014-09-04 Analyzed By: MC
 Prep Batch: 97414 Sample Preparation: 2014-09-04 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		1,4,5	3240	3240	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373518 - DAD 14

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115507 Date Analyzed: 2014-09-16 Analyzed By: CF
 Prep Batch: 97680 Sample Preparation: 2014-09-16 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	J	2,3,6,7	2.10	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373519 - DAD 15

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115140 Date Analyzed: 2014-09-02 Analyzed By: JR
 Prep Batch: 97370 Sample Preparation: 2014-09-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	489	489	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373519 - DAD 15

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	NO3 (IC)	Date Analyzed:	2014-09-02	Analyzed By:	JR
QC Batch:	115140	Sample Preparation:	2014-09-02	Prepared By:	JR
Prep Batch:	97370				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	5.97	5.97	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373519 - DAD 15

Laboratory:	El Paso	Analytical Method:	SM 2540C	Prep Method:	N/A
Analysis:	TDS	Date Analyzed:	2014-09-04	Analyzed By:	MC
QC Batch:	115188	Sample Preparation:	2014-09-04	Prepared By:	MC
Prep Batch:	97414				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	1620	1620	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373519 - DAD 15

Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-09-16	Analyzed By:	CF
QC Batch:	115507	Sample Preparation:	2014-09-16	Prepared By:	CF
Prep Batch:	97680				

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373520 - DAD 16

Laboratory:	El Paso	Analytical Method:	E 300.0	Prep Method:	N/A
Analysis:	Chloride (IC)	Date Analyzed:	2014-09-02	Analyzed By:	JR
QC Batch:	115140	Sample Preparation:	2014-09-02	Prepared By:	JR
Prep Batch:	97370				

continued ...

sample 373520 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	579	579	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373520 - DAD 16

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115140 Date Analyzed: 2014-09-02 Analyzed By: JR
 Prep Batch: 97370 Sample Preparation: 2014-09-02 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1,4,5	2.44	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373520 - DAD 16

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115188 Date Analyzed: 2014-09-04 Analyzed By: MC
 Prep Batch: 97414 Sample Preparation: 2014-09-04 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		1,4,5	2300	2300	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373520 - DAD 16

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115507 Date Analyzed: 2014-09-16 Analyzed By: CF
 Prep Batch: 97680 Sample Preparation: 2014-09-16 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	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 115140
Prep Batch: 97370Date Analyzed: 2014-09-02
QC Preparation: 2014-09-02Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 115140
Prep Batch: 97370Date Analyzed: 2014-09-02
QC Preparation: 2014-09-02Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 115188
Prep Batch: 97414Date Analyzed: 2014-09-04
QC Preparation: 2014-09-04Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115477
Prep Batch: 97650Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 115507
 Prep Batch: 97680

Date Analyzed: 2014-09-16
 QC Preparation: 2014-09-16

Analyzed By: CF
 Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 373520

QC Batch: 115188
 Prep Batch: 97414

Date Analyzed: 2014-09-04
 QC Preparation: 2014-09-04

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2420	2300	mg/L	1	5	10

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 373519

QC Batch: 115140
Prep Batch: 97370

Date Analyzed: 2014-09-02
QC Preparation: 2014-09-02

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	1910	mg/L	55.6	1390	489	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		1,4,5	1910	mg/L	55.6	1390	489	102	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 373519

QC Batch: 115140
Prep Batch: 97370

Date Analyzed: 2014-09-02
QC Preparation: 2014-09-02

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	274	mg/L	55.6	278	5.97	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		1,4,5	274	mg/L	55.6	278	5.97	96	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: 373397

QC Batch: 115477
Prep Batch: 97650

Date Analyzed: 2014-09-15
QC Preparation: 2014-09-15

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 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		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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: 373601

QC Batch: 115507
Prep Batch: 97680

Date Analyzed: 2014-09-16
QC Preparation: 2014-09-16

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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		2,3,6,7	46.2	mg/L	1	50.0	<1.80	92	72.1 - 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: 115140

Date Analyzed: 2014-09-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.9	96	90 - 110	2014-09-02

Standard (CCV-1)

QC Batch: 115140

Date Analyzed: 2014-09-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.75	95	90 - 110	2014-09-02

Standard (CCV-2)

QC Batch: 115140

Date Analyzed: 2014-09-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.1	96	90 - 110	2014-09-02

Standard (CCV-2)

QC Batch: 115140

Date Analyzed: 2014-09-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.79	96	90 - 110	2014-09-02

Standard (CCV-3)

QC Batch: 115140

Date Analyzed: 2014-09-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.2	97	90 - 110	2014-09-02

Standard (CCV-3)

QC Batch: 115140

Date Analyzed: 2014-09-02

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.81	96	90 - 110	2014-09-02

Standard (ICV-1)

QC Batch: 115477

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-15

Standard (CCV-1)

QC Batch: 115477

Date Analyzed: 2014-09-15

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-09-15

Standard (ICV-1)

QC Batch: 115507

Date Analyzed: 2014-09-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-09-16

Standard (CCV-1)

QC Batch: 115507

Date Analyzed: 2014-09-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-09-16

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.

14090224
 14090224

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 Name: **Linda Armstrong 575-233-3620**
 Project Location (including state): **Dona Ana Dairies, PO Box 10, Mesquite, NM 88048**
 Sampler Signature: *gub*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE		
373515	DAD-007	1	250	X				X				9-2-14	9:27
1-2	DAD-007	1	250	X				X					9:27
14-1	DAD-008	1	250	X				X					10:06
1-2	DAD-008	1	250	X				X					10:06
17-1	DAD-013	1	250	X				X					10:56
1-2	DAD-013	1	250	X				X					10:56
18-1	DAD-014	1	250	X				X					11:45
1-2	DAD-014	1	250	X				X					11:45
19-1	DAD-015	1	250	X				X					12:37
1-2	DAD-015	1	250	X				X					12:37
20-1	DAD-016	1	250	X				X					13:29
1-2	DAD-016	1	250	X				X					13:29
-	DAD-015	1		X				X					
-	DAD-015	1		X				X					
-	DAD-016	1		X				X					
-	DAD-016	1		X				X					

Relinquished By: *gub* Date: 9-2-14 Time: 14:15
 Received By: *D-2014 TA* Date: 9-2-14 Time: 14:15
 Relinquished By: *D-2014 H- 9-2-14* Date: 9-2-14 Time: 14:30
 Received at Laboratory By: *BC TA 9/3/14* Date: 9-3-14 Time: 9:00
 Turned in to: *Tonia S.O* LSO 48891773

Page 1 of 1
 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # 14090224

ANALYSIS REQUEST	Turn Around 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	
TKN SM 4500 NORG C	
Chloride EPA 300	
Total Dissolved Solids SM 2540 C MOD	

Remarks: **CARRY IN**
 Lab Use Only
 Intact Y/N
 Headspace Y/N
 Temp *18.2*
 Log-in Review *gub*
 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: September 17, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14090338



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
373601	DAD-11	Water	2014-09-03	09:01	2014-09-03
373602	DAD-12	Water	2014-09-03	10:08	2014-09-03
373603	DAD-19	Water	2014-09-03	11:15	2014-09-03
373604	DAD-18	Water	2014-09-03	12:09	2014-09-03
373605	DAD-17	Water	2014-09-03	12:46	2014-09-03

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 22 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2014-09-03 and assigned to work order 14090338. Samples for work order 14090338 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	97398	2014-09-03 at 19:11	115172	2014-09-03 at 19:11
NO3 (IC)	E 300.0	97398	2014-09-03 at 19:11	115172	2014-09-03 at 19:11
TDS	SM 2540C	97449	2014-09-05 at 14:00	115238	2014-09-05 at 14:00
TKN	SM 4500-NH3 B,C	97680	2014-09-16 at 10:45	115507	2014-09-16 at 13:50
TKN	SM 4500-NH3 B,C	97681	2014-09-16 at 10:45	115508	2014-09-16 at 13:50

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 14090338 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: 373601 - DAD-11

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	717	717	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373601 - DAD-11

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	11.1	11.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373601 - DAD-11

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115238 Date Analyzed: 2014-09-05 Analyzed By: MC
 Prep Batch: 97449 Sample Preparation: 2014-09-05 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		1,4,6	2950	2950	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373601 - DAD-11

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115507 Date Analyzed: 2014-09-16 Analyzed By: CF
 Prep Batch: 97680 Sample Preparation: 2014-09-16 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373602 - DAD-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	588	588	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373602 - DAD-12

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	18.6	18.6	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373602 - DAD-12

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115238 Date Analyzed: 2014-09-05 Analyzed By: MC
 Prep Batch: 97449 Sample Preparation: 2014-09-05 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		1,4,6	2700	2700	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373602 - DAD-12

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115508 Date Analyzed: 2014-09-16 Analyzed By: CF
 Prep Batch: 97681 Sample Preparation: 2014-09-16 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373603 - DAD-19

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride	B	1,4,6	899	899	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373603 - DAD-19

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	41.0	41.0	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 373603 - DAD-19

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115238 Date Analyzed: 2014-09-05 Analyzed By: MC
 Prep Batch: 97449 Sample Preparation: 2014-09-05 Prepared By: MC

continued . . .

sample 373603 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	3240	3240	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373603 - DAD-19

Laboratory: Lubbock

Analysis: TKN

QC Batch: 115508

Prep Batch: 97681

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-09-16

Sample Preparation: 2014-09-16

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373604 - DAD-18

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 115172

Prep Batch: 97398

Analytical Method: E 300.0

Date Analyzed: 2014-09-03

Sample Preparation: 2014-09-03

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)
Chloride	B	1,4,6	713	713	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373604 - DAD-18

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 115172

Prep Batch: 97398

Analytical Method: E 300.0

Date Analyzed: 2014-09-03

Sample Preparation: 2014-09-03

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		1,4,6	12.1	12.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373604 - DAD-18

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115238 Date Analyzed: 2014-09-05 Analyzed By: MC
 Prep Batch: 97449 Sample Preparation: 2014-09-05 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		1,4,6	2960	2960	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373604 - DAD-18

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115508 Date Analyzed: 2014-09-16 Analyzed By: CF
 Prep Batch: 97681 Sample Preparation: 2014-09-16 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	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373605 - DAD-17

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	B	1,4,6	442	442	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 373605 - DAD-17

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115172 Date Analyzed: 2014-09-03 Analyzed By: JR
 Prep Batch: 97398 Sample Preparation: 2014-09-03 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,6	2.48	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373605 - DAD-17

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115238 Date Analyzed: 2014-09-05 Analyzed By: MC
 Prep Batch: 97449 Sample Preparation: 2014-09-05 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	1920	1920	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373605 - DAD-17

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115508 Date Analyzed: 2014-09-16 Analyzed By: CF
 Prep Batch: 97681 Sample Preparation: 2014-09-16 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 115172
Prep Batch: 97398Date Analyzed: 2014-09-03
QC Preparation: 2014-09-03Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride	B	1,4,6	1.30	mg/L	0.0068

Method Blank (1)

QC Batch: 115172
Prep Batch: 97398Date Analyzed: 2014-09-03
QC Preparation: 2014-09-03Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 115238
Prep Batch: 97449Date Analyzed: 2014-09-05
QC Preparation: 2014-09-05Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115507
Prep Batch: 97680Date Analyzed: 2014-09-16
QC Preparation: 2014-09-16Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Method Blank (1)

QC Batch: 115508
 Prep Batch: 97681

Date Analyzed: 2014-09-16
 QC Preparation: 2014-09-16

Analyzed By: CF
 Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 373604

QC Batch: 115238
 Prep Batch: 97449

Date Analyzed: 2014-09-05
 QC Preparation: 2014-09-05

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2920	2960	mg/L	1	1	10

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 373601

QC Batch: 115507 Date Analyzed: 2014-09-16 Analyzed By: CF
 Prep Batch: 97680 QC Preparation: 2014-09-16 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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		2,3,7,8	46.2	mg/L	1	50.0	<1.80	92	72.1 - 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: 373607

QC Batch: 115508 Date Analyzed: 2014-09-16 Analyzed By: CF
 Prep Batch: 97681 QC Preparation: 2014-09-16 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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		2,3,7,8	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.0	96	90 - 110	2014-09-03

Standard (CCV-1)

QC Batch: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.77	95	90 - 110	2014-09-03

Standard (CCV-2)

QC Batch: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.1	96	90 - 110	2014-09-03

Standard (CCV-2)

QC Batch: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.77	95	90 - 110	2014-09-03

Standard (CCV-3)

QC Batch: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.1	96	90 - 110	2014-09-03

Standard (CCV-3)

QC Batch: 115172

Date Analyzed: 2014-09-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.79	96	90 - 110	2014-09-03

Standard (ICV-1)

QC Batch: 115507

Date Analyzed: 2014-09-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-09-16

Standard (CCV-1)

QC Batch: 115507

Date Analyzed: 2014-09-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-09-16

Standard (ICV-1)

QC Batch: 115508

Date Analyzed: 2014-09-16

Analyzed By: CF

Report Date: September 17, 2014

Work Order: 14090338
Dona Ana Dairies Consortium

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Various Dairies, Dona Ana County, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-09-16

Standard (CCV-1)

QC Batch: 115508

Date Analyzed: 2014-09-16

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-09-16

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

F Description

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.



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 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Bruce Bonestroo
 River Valley Dairy, LLC
 1400 La Chuga Rd., Mesquite
 P.O. Box 1929
 Anthony, NM, 88021

Report Date: September 18, 2014

Work Order: 14090432



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
373680	167-08	water	2014-09-04	12:39	2014-09-04
373681	167-01A	water	2014-09-04	10:33	2014-09-04
373682	167-02	water	2014-09-04	11:45	2014-09-04
373683	167-03	water	2014-09-04	13:58	2014-09-04
373684	167-04	water	2014-09-04	13:05	2014-09-04
373685	167-Lagoon	water	2014-09-04	10:51	2014-09-04
373686	167-06	water	2014-09-04	09:30	2014-09-04
373687	167-07	water	2014-09-04	12:39	2014-09-04

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 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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2014-09-04 and assigned to work order 14090432. Samples for work order 14090432 were received intact at a temperature of 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	97436	2014-09-04 at 18:52	115222	2014-09-04 at 18:52
NO3 (IC)	E 300.0	97436	2014-09-04 at 18:52	115222	2014-09-04 at 18:52
TDS	SM 2540C	97505	2014-09-09 at 13:15	115303	2014-09-09 at 13:15
TKN	SM 4500-NH3 B,C	97754	2014-09-18 at 10:00	115588	2014-09-18 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 14090432 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: 373680 - 167-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	726	726	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373680 - 167-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1,4,5	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373680 - 167-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115303 Date Analyzed: 2014-09-09 Analyzed By: MC
 Prep Batch: 97505 Sample Preparation: 2014-09-09 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		1,4,5	2840	2840	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373680 - 167-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115588 Date Analyzed: 2014-09-18 Analyzed By: CF
 Prep Batch: 97754 Sample Preparation: 2014-09-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373681 - 167-01A

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	652	652	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373681 - 167-01A

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	2.52	2.52	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373681 - 167-01A

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115303 Date Analyzed: 2014-09-09 Analyzed By: MC
 Prep Batch: 97505 Sample Preparation: 2014-09-09 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		1,4,5	3070	3070	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373681 - 167-01A

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115588 Date Analyzed: 2014-09-18 Analyzed By: CF
 Prep Batch: 97754 Sample Preparation: 2014-09-18 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373682 - 167-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	455	455	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 373682 - 167-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1,4,5	0.928	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373682 - 167-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115303 Date Analyzed: 2014-09-09 Analyzed By: MC
 Prep Batch: 97505 Sample Preparation: 2014-09-09 Prepared By: MC

continued . . .

sample 373682 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	1580	1580	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373682 - 167-02

Laboratory: Lubbock

Analysis: TKN

QC Batch: 115588

Prep Batch: 97754

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-09-18

Sample Preparation: 2014-09-18

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373683 - 167-03

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 115222

Prep Batch: 97436

Analytical Method: E 300.0

Date Analyzed: 2014-09-04

Sample Preparation: 2014-09-04

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)
Chloride		1,4,5	534	534	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373683 - 167-03

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 115222

Prep Batch: 97436

Analytical Method: E 300.0

Date Analyzed: 2014-09-04

Sample Preparation: 2014-09-04

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		1,4,5	17.1	17.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373683 - 167-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115303 Date Analyzed: 2014-09-09 Analyzed By: MC
 Prep Batch: 97505 Sample Preparation: 2014-09-09 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		1,4,5	2220	2220	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373683 - 167-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115588 Date Analyzed: 2014-09-18 Analyzed By: CF
 Prep Batch: 97754 Sample Preparation: 2014-09-18 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373684 - 167-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	1040	1040	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373684 - 167-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	25.1	25.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373684 - 167-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115303 Date Analyzed: 2014-09-09 Analyzed By: MC
 Prep Batch: 97505 Sample Preparation: 2014-09-09 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		1,4,5	4210	4210	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373684 - 167-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115588 Date Analyzed: 2014-09-18 Analyzed By: CF
 Prep Batch: 97754 Sample Preparation: 2014-09-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373685 - 167-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

continued ...

sample 373685 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	783	783	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373685 - 167-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1,4,5	0.933	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373685 - 167-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115303 Date Analyzed: 2014-09-09 Analyzed By: MC
 Prep Batch: 97505 Sample Preparation: 2014-09-09 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		1,4,5	3420	3420	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373685 - 167-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115588 Date Analyzed: 2014-09-18 Analyzed By: CF
 Prep Batch: 97754 Sample Preparation: 2014-09-18 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	79.1	79.1	<1.80	mg/L	1	1.80	10	1.8

Sample: 373686 - 167-06

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	689	689	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373686 - 167-06

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	22.8	22.8	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373686 - 167-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115303 Date Analyzed: 2014-09-09 Analyzed By: MC
 Prep Batch: 97505 Sample Preparation: 2014-09-09 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2820	2820	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373686 - 167-06

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 115588 Date Analyzed: 2014-09-18 Analyzed By: CF
 Prep Batch: 97754 Sample Preparation: 2014-09-18 Prepared By: CF

continued . . .

sample 373686 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	4.20	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 373687 - 167-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	609	609	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 373687 - 167-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 115222 Date Analyzed: 2014-09-04 Analyzed By: JR
 Prep Batch: 97436 Sample Preparation: 2014-09-04 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	U	1,4,5	<0.126	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 373687 - 167-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 115303 Date Analyzed: 2014-09-09 Analyzed By: MC
 Prep Batch: 97505 Sample Preparation: 2014-09-09 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Dissolved Solids		1,4,5	5680	5680	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 373687 - 167-07

Laboratory: Lubbock

Analysis: TKN

QC Batch: 115588

Prep Batch: 97754

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-09-18

Sample Preparation: 2014-09-18

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	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 115222
Prep Batch: 97436Date Analyzed: 2014-09-04
QC Preparation: 2014-09-04Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 115222
Prep Batch: 97436Date Analyzed: 2014-09-04
QC Preparation: 2014-09-04Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 115303
Prep Batch: 97505Date Analyzed: 2014-09-09
QC Preparation: 2014-09-09Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 115588
Prep Batch: 97754Date Analyzed: 2014-09-18
QC Preparation: 2014-09-18Analyzed By: CF
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 373683

QC Batch: 115303
 Prep Batch: 97505

Date Analyzed: 2014-09-09
 QC Preparation: 2014-09-09

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2230	2220	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 115222
Prep Batch: 97436

Date Analyzed: 2014-09-04
QC Preparation: 2014-09-04

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	24.4	mg/L	1	25.0	<0.00680	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	24.4	mg/L	1	25.0	<0.00680	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: 115222
Prep Batch: 97436

Date Analyzed: 2014-09-04
QC Preparation: 2014-09-04

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.85	mg/L	1	5.00	<0.0251	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.86	mg/L	1	5.00	<0.0251	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: 115303
Prep Batch: 97505

Date Analyzed: 2014-09-09
QC Preparation: 2014-09-09

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	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		1,4,5	997	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: 115588
Prep Batch: 97754

Date Analyzed: 2014-09-18
QC Preparation: 2014-09-18

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	46.2	mg/L	1	50.0	<1.80	92	80.7 - 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: 373682QC Batch: 115222
Prep Batch: 97436Date Analyzed: 2014-09-04
QC Preparation: 2014-09-04Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1840	mg/L	55.6	1390	455	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		1,4,5	1840	mg/L	55.6	1390	455	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: 373682QC Batch: 115222
Prep Batch: 97436Date Analyzed: 2014-09-04
QC Preparation: 2014-09-04Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	270	mg/L	55.6	278	<1.40	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		1,4,5	270	mg/L	55.6	278	<1.40	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: 373765QC Batch: 115588
Prep Batch: 97754Date Analyzed: 2014-09-18
QC Preparation: 2014-09-18Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	72.1 - 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		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	72.1 - 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: 115222

Date Analyzed: 2014-09-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.1	96	90 - 110	2014-09-04

Standard (CCV-1)

QC Batch: 115222

Date Analyzed: 2014-09-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.79	96	90 - 110	2014-09-04

Standard (CCV-2)

QC Batch: 115222

Date Analyzed: 2014-09-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.1	96	90 - 110	2014-09-04

Standard (CCV-2)

QC Batch: 115222

Date Analyzed: 2014-09-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.78	96	90 - 110	2014-09-04

Standard (CCV-3)

QC Batch: 115222

Date Analyzed: 2014-09-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.2	97	90 - 110	2014-09-04

Standard (CCV-3)

QC Batch: 115222

Date Analyzed: 2014-09-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.78	96	90 - 110	2014-09-04

Standard (CCV-4)

QC Batch: 115222

Date Analyzed: 2014-09-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	24.2	97	90 - 110	2014-09-04

Standard (CCV-4)

QC Batch: 115222

Date Analyzed: 2014-09-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.80	96	90 - 110	2014-09-04

Standard (ICV-1)

QC Batch: 115588

Date Analyzed: 2014-09-18

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		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-09-18

Standard (CCV-1)

QC Batch: 115588

Date Analyzed: 2014-09-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.76	95	85 - 115	2014-09-18

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2014-018	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.

14090432

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@dhump.com

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: [Signature]

Page 1 of 1
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # 14090432

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	

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
373680	167-08	1	250	X			X					9-4-14	12:34
↓ 2	167-08	1	250	X			X						12:34
81-1	167-01A	1	250	X			X					10:33	
↓ 2	167-01A	1	250	X			X					10:33	
82-1	167-02	1	250	X			X					11:45	
↓ 2	167-02	1	250	X			X					11:45	
83-1	167-03	1	250	X			X					13:56	
↓ 2	167-03	1	250	X			X					13:56	
84-1	167-04	1	250	X			X					13:05	
↓ 2	167-04	1	250	X			X					13:05	
85-1	LAGDON	1	250	X			X					10:51	
↓ 2	LAGDON	1	250	X			X					10:51	
86-1	167-06	1	250	X			X					9:30	
↓ 2	167-06	1	250	X			X					9:30	
87-1	167-07	1	250	X			X					10:10	
↓ 2	167-07	1	250	X			X					10:10	

Relinquished By: [Signature] Date: 9-4-14 Time: 14:15
 Relinquished By: [Signature] Date: 9-4-14 Time: 16:30
 Received By: [Signature] Date: 9-4-14 Time: 14:15
 Received at Laboratory By: [Signature] Date: 9-5-14 Time: 8:30
 Lab Use Only
 Intact Y / N
 Headspace Y / N
 Temp 11.00
 Log-in Rev 9-4-14
 Remarks: Carry to / 250 48891771
8-7-12
 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: October 10, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14100313



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
375918	DAD-10	water	2014-10-03	10:01	2014-10-03

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 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
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2014-10-03 and assigned to work order 14100313. Samples for work order 14100313 were received intact at a temperature of 4 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	98170	2014-10-06 at 12:04	116083	2014-10-06 at 12:04
NO3 (IC)	E 300.0	98170	2014-10-06 at 12:04	116083	2014-10-06 at 12:04
TDS	SM 2540C	98209	2014-10-07 at 13:05	116127	2014-10-07 at 13:05
TKN	SM 4500-NH3 B,C	98275	2014-10-10 at 11:00	116209	2014-10-10 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 14100313 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: 375918 - DAD-10

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 116083 Date Analyzed: 2014-10-06 Analyzed By: JR
 Prep Batch: 98170 Sample Preparation: 2014-10-06 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	419	419	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 375918 - DAD-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 116083 Date Analyzed: 2014-10-06 Analyzed By: JR
 Prep Batch: 98170 Sample Preparation: 2014-10-06 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	H	1,4,6	12.5	12.5	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 375918 - DAD-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 116127 Date Analyzed: 2014-10-07 Analyzed By: MC
 Prep Batch: 98209 Sample Preparation: 2014-10-07 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	1720	1720	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 375918 - DAD-10

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 116209 Date Analyzed: 2014-10-10 Analyzed By: CF
 Prep Batch: 98275 Sample Preparation: 2014-10-10 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Total Kjeldahl Nitrogen - N	u	2,3,7,9	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 116083
Prep Batch: 98170Date Analyzed: 2014-10-06
QC Preparation: 2014-10-06Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 116083
Prep Batch: 98170Date Analyzed: 2014-10-06
QC Preparation: 2014-10-06Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 116127
Prep Batch: 98209Date Analyzed: 2014-10-07
QC Preparation: 2014-10-07Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 116209
Prep Batch: 98275Date Analyzed: 2014-10-10
QC Preparation: 2014-10-10Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,9	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 375918

QC Batch: 116127
 Prep Batch: 98209

Date Analyzed: 2014-10-07
 QC Preparation: 2014-10-07

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	1720	1720	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 116083
Prep Batch: 98170Date Analyzed: 2014-10-06
QC Preparation: 2014-10-06Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	23.0	mg/L	1	25.0	<0.00680	92	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	23.1	mg/L	1	25.0	<0.00680	92	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: 116083
Prep Batch: 98170Date Analyzed: 2014-10-06
QC Preparation: 2014-10-06Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.58	mg/L	1	5.00	<0.0251	92	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.59	mg/L	1	5.00	<0.0251	92	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: 116127
Prep Batch: 98209Date Analyzed: 2014-10-07
QC Preparation: 2014-10-07Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	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: 116209
 Prep Batch: 98275

Date Analyzed: 2014-10-10
 QC Preparation: 2014-10-10

Analyzed By: CF
 Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,9	45.5	mg/L	1	50.0	<1.80	91	80.7 - 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: 375918QC Batch: 116083
Prep Batch: 98170Date Analyzed: 2014-10-06
QC Preparation: 2014-10-06Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,6	1750	mg/L	55.6	1390	419	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1,4,6	1740	mg/L	55.6	1390	419	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: 375918QC Batch: 116083
Prep Batch: 98170Date Analyzed: 2014-10-06
QC Preparation: 2014-10-06Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,6	271	mg/L	55.6	278	12.5	93	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,6	269	mg/L	55.6	278	12.5	92	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: 375902QC Batch: 116209
Prep Batch: 98275Date Analyzed: 2014-10-10
QC Preparation: 2014-10-10Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,7,9	48.3	mg/L	1	50.0	<1.80	97	72.1 - 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		2,3,7,9	49.7	mg/L	1	50.0	<1.80	99	72.1 - 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: 116083

Date Analyzed: 2014-10-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	22.7	91	90 - 110	2014-10-06

Standard (CCV-1)

QC Batch: 116083

Date Analyzed: 2014-10-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.52	90	90 - 110	2014-10-06

Standard (CCV-2)

QC Batch: 116083

Date Analyzed: 2014-10-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	22.9	92	90 - 110	2014-10-06

Standard (CCV-2)

QC Batch: 116083

Date Analyzed: 2014-10-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.56	91	90 - 110	2014-10-06

Standard (ICV-1)

QC Batch: 116209

Date Analyzed: 2014-10-10

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.34	87	85 - 115	2014-10-10

Standard (CCV-1)

QC Batch: 116209

Date Analyzed: 2014-10-10

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,9	mg/L	5.00	4.76	95	85 - 115	2014-10-10

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8	NELAP	T104704392-14-8	Midland
9		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.

F	Description
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.



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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

Linda Armstrong
 Bright Star Dairy
 13520 Stern Dr.
 P.O. Box 167
 Mesquite, NM, 88048

Report Date: August 27, 2014

Work Order: 14081527



Project Location: 13520 Stern Drive, Mesquite, NM
 Project Name: Bright Star Dairy
 Project Number: 441980

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
371958	340-1	water	2014-08-15	11:28	2014-08-15
371959	340-2	water	2014-08-15	12:08	2014-08-15
371960	70/86/340	water	2014-08-15	10:48	2014-08-15
371961	86/340	water	2014-08-15	09:32	2014-08-15
371962	340 Lagoon	water	2014-08-15	11:40	2014-08-15

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 23 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

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Sample 371960 (70/86/340)	7
Sample 371961 (86/340)	8
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QC Batch 114661 - Method Blank (1)	11
QC Batch 114661 - Method Blank (1)	11
QC Batch 114762 - Method Blank (1)	11
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Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2014-08-15 and assigned to work order 14081527. Samples for work order 14081527 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	96964	2014-08-15 at 18:48	114661	2014-08-15 at 18:48
NO3 (IC)	E 300.0	96964	2014-08-15 at 18:48	114661	2014-08-15 at 18:48
TDS	SM 2540C	97049	2014-08-20 at 13:40	114762	2014-08-20 at 13:40
TKN	SM 4500-NH3 B,C	97200	2014-08-26 at 09:40	114939	2014-08-26 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 14081527 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: 371958 - 340-1

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	383	383	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 371958 - 340-1

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	37.9	37.9	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 371958 - 340-1

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	2800	2800	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 371958 - 340-1

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

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Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 371959 - 340-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	772	772	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 371959 - 340-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	84.4	84.4	<0.251	mg/L	10	0.251	0.5	0.0251

Sample: 371959 - 340-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	3420	3420	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 371959 - 340-2

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Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 371960 - 70/86/340

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,6	1730	1730	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 371960 - 70/86/340

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	15.3	15.3	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 371960 - 70/86/340

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

continued ...

sample 371960 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	5780	5780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 371960 - 70/86/340

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 371961 - 86/340

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	400	400	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 371961 - 86/340

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

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Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,6	11.6	11.6	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 371961 - 86/340

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,6	2300	2300	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 371961 - 86/340

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		U 2,3,7,8	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 371962 - 340 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,6	1090	1090	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 371962 - 340 Lagoon

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Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
 Prep Batch: 96964 Sample Preparation: 2014-08-15 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,6	3.41	3.41	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 371962 - 340 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,6	7980	7980	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 371962 - 340 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,7,8	161	161	<18.0	mg/L	10	18.0	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114661
Prep Batch: 96964

Date Analyzed: 2014-08-15
QC Preparation: 2014-08-15

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,6	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 114661
Prep Batch: 96964

Date Analyzed: 2014-08-15
QC Preparation: 2014-08-15

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,6	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114762
Prep Batch: 97049

Date Analyzed: 2014-08-20
QC Preparation: 2014-08-20

Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,6	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 114939
Prep Batch: 97200

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: CF
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,7,8	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372160

QC Batch: 114762
Prep Batch: 97049

Date Analyzed: 2014-08-20
QC Preparation: 2014-08-20

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,6	2920	2840	mg/L	1	3	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114661
Prep Batch: 96964

Date Analyzed: 2014-08-15
QC Preparation: 2014-08-15

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	23.8	mg/L	1	25.0	<0.00680	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	23.8	mg/L	1	25.0	<0.00680	95	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: 114661
Prep Batch: 96964

Date Analyzed: 2014-08-15
QC Preparation: 2014-08-15

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	4.70	mg/L	1	5.00	<0.0251	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	4.70	mg/L	1	5.00	<0.0251	94	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: 114762
Prep Batch: 97049

Date Analyzed: 2014-08-20
QC Preparation: 2014-08-20

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,6	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.

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Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,6	999	mg/L	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: 114939
Prep Batch: 97200

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 371961

QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
Prep Batch: 96964 QC Preparation: 2014-08-15 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	1750	mg/L	55.6	1390	400	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	1740	mg/L	55.6	1390	400	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: 371961

QC Batch: 114661 Date Analyzed: 2014-08-15 Analyzed By: JR
Prep Batch: 96964 QC Preparation: 2014-08-15 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,6	274	mg/L	55.6	278	11.6	94	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,6	272	mg/L	55.6	278	11.6	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: 372161

QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
Prep Batch: 97200 QC Preparation: 2014-08-26 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,7,8	44.1	mg/L	1	50.0	<1.80	88	72.1 - 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		2,3,7,8	43.4	mg/L	1	50.0	<1.80	87	72.1 - 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: 114661

Date Analyzed: 2014-08-15

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	23.5	94	90 - 110	2014-08-15

Standard (CCV-1)

QC Batch: 114661

Date Analyzed: 2014-08-15

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.69	94	90 - 110	2014-08-15

Standard (CCV-2)

QC Batch: 114661

Date Analyzed: 2014-08-15

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	23.7	95	90 - 110	2014-08-15

Standard (CCV-2)

QC Batch: 114661

Date Analyzed: 2014-08-15

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,6	mg/L	5.00	4.68	94	90 - 110	2014-08-15

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.34	87	85 - 115	2014-08-26

Standard (CCV-1)

QC Batch: 114939

Date Analyzed: 2014-08-26

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,7,8	mg/L	5.00	4.48	90	85 - 115	2014-08-26

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2013-083	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

F Description

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.



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 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Joe Gonzalez
 Gonzalez Farmes
 14310 Stern Drive
 P.O. Box 199
 Mesquite, NM, 88048

Report Date: August 27, 2014

Work Order: 14081828



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
372165	177-01	water	2014-08-18	13:19	2014-08-18
372166	177-02	water	2014-08-18	14:08	2014-08-18

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Dr. Blair Leftwich, Director
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project Gonzalez Farmes were received by TraceAnalysis, Inc. on 2014-08-18 and assigned to work order 14081828. Samples for work order 14081828 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	97077	2014-08-18 at 19:17	114793	2014-08-18 at 19:17
NO3 (IC)	E 300.0	97077	2014-08-18 at 19:17	114793	2014-08-18 at 19:17
TDS	SM 2540C	97085	2014-08-21 at 13:30	114803	2014-08-21 at 13:30
TKN	SM 4500-NH3 B,C	97209	2014-08-26 at 09:40	114949	2014-08-26 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 14081828 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: 372165 - 177-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1100	1100	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372165 - 177-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	30.5	30.5	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372165 - 177-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114803 Date Analyzed: 2014-08-21 Analyzed By: MC
 Prep Batch: 97085 Sample Preparation: 2014-08-21 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3780	3780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372165 - 177-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114949 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97209 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2,3,6,7	2.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372166 - 177-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	864	864	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372166 - 177-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	17.1	17.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372166 - 177-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114803 Date Analyzed: 2014-08-21 Analyzed By: MC
 Prep Batch: 97085 Sample Preparation: 2014-08-21 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2810	2810	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372166 - 177-02

Report Date: August 27, 2014

Work Order: 14081828
Gonzalez Farmes

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Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-08-26	Analyzed By:	CF
QC Batch:	114949	Sample Preparation:	2014-08-26	Prepared By:	CF
Prep Batch:	97209				

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114803
Prep Batch: 97085Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 114949
Prep Batch: 97209Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26Analyzed By: CF
Prepared By: CF

Report Date: August 27, 2014

Work Order: 14081828
Gonzalez Farmes

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14310 Stern Dr., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372166

QC Batch: 114803
 Prep Batch: 97085

Date Analyzed: 2014-08-21
 QC Preparation: 2014-08-21

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2860	2810	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	23.9	mg/L	1	25.0	<0.00680	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	23.8	mg/L	1	25.0	<0.00680	95	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: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.74	mg/L	1	5.00	<0.0251	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1,4,5	4.73	mg/L	1	5.00	<0.0251	95	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: 114803
Prep Batch: 97085Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	999	mg/L	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.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	997	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: 114949
Prep Batch: 97209

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 372161QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1,4,5	1900	mg/L	62.5	1560	384	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							
Chloride		1,4,5	1900	mg/L	62.5	1560	384	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: 372161QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1,4,5	315	mg/L	62.5	312	16.5	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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1,4,5	314	mg/L	62.5	312	16.5	95	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: 372166QC Batch: 114949
Prep Batch: 97209Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 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: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.6	94	90 - 110	2014-08-18

Standard (CCV-2)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.69	94	90 - 110	2014-08-18

Standard (CCV-3)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.7	95	90 - 110	2014-08-18

Standard (CCV-3)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.71	94	90 - 110	2014-08-18

Standard (CCV-4)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.8	95	90 - 110	2014-08-18

Standard (CCV-4)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.73	95	90 - 110	2014-08-18

Standard (CCV-5)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.9	96	90 - 110	2014-08-18

Standard (CCV-5)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.74	95	90 - 110	2014-08-18

Standard (ICV-1)

QC Batch: 114949

Date Analyzed: 2014-08-26

Analyzed By: CF

Report Date: August 27, 2014

Work Order: 14081828
Gonzalez Farmes

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14310 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		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-08-26

Standard (CCV-1)

QC Batch: 114949

Date Analyzed: 2014-08-26

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-08-26

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2013-083	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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Project Name: JOE GONZALEZ 575-233-4801

Project Name: (if different from above) 14310 STERN DR, MESQUITE, NM, PO Box 119

Project #: 441972

Project Location (including state): GONZALEZ DAIRY, 13600 STERN DR, MESQUITE, NM

Sampler Signature: *GONZALEZ DAIRY*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE
372165	177-01	1	1500	X				X		X		8-18	13:19
↓ -2	177-01	1	1500	X				X		X		↓	13:19
372166	177-02	1	2500	X				X		X		↓	14:08
↓ -2	177-02	1	5000	X				X		X		↓	14:08

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 ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity	Na, Ca, Mg, K, TDS, EC	NITRATE EPA 300	TKN SM 4500 NORG C	CHLORIDE EPA 300.0	TOTAL DISSOLVED SOLIDS SM 2540	Turn Around Time if different from standard
																			X	X	X	X	

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB USE ONLY	REMARKS:
Initial <input checked="" type="checkbox"/> N	
Headspace <input type="checkbox"/> Y <input type="checkbox"/> N	
DPH 8-18-14	Dry Weight Basis Required <input type="checkbox"/>
Log-in-Review	TRRP Report Required <input type="checkbox"/>
	Check if Special Reporting Limits Are Needed <input type="checkbox"/>

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
<i>Joe</i>	DPH	8-18-14	14:30	<i>[Signature]</i>	Trace	8-18-14	14:30
<i>[Signature]</i>	Trace	8-18-14	16:36	<i>[Signature]</i>	BC TX	8-19-14	9 AM

Carrier # Car 77N CSD 48891782

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

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Organ Dairy LLC

Report Date: August 27, 2014

P.O. Box 130
 Mesilla Park, NM, 88047

Work Order: 14081826



Project Location: 12560 Stern Dr., Mesquite, NM
 Project Name: Organ 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
372157	126-4	water	2014-08-18	10:49	2014-08-18
372158	126-5	water	2014-08-18	11:27	2014-08-18
372159	126-7	water	2014-08-18	09:54	2014-08-18
372160	126-9	water	2014-08-18	09:08	2014-08-18
372161	126-12	water	2014-08-18	12:17	2014-08-18
372162	126-13	water	2014-08-18	10:33	2014-08-18
372163	126 Lagoon	water	2014-08-18	09:35	2014-08-18

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

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.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Organ Dairy were received by TraceAnalysis, Inc. on 2014-08-18 and assigned to work order 14081826. Samples for work order 14081826 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	97077	2014-08-18 at 19:17	114793	2014-08-18 at 19:17
NO3 (IC)	E 300.0	97077	2014-08-18 at 19:17	114793	2014-08-18 at 19:17
TDS	SM 2540C	97049	2014-08-20 at 13:40	114762	2014-08-20 at 13:40
TDS	SM 2540C	97085	2014-08-21 at 13:30	114803	2014-08-21 at 13:30
TKN	SM 4500-NH3 B,C	97200	2014-08-26 at 09:40	114939	2014-08-26 at 14:00
TKN	SM 4500-NH3 B,C	97209	2014-08-26 at 09:40	114949	2014-08-26 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 14081826 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: 372157 - 126-4

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	536	536	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372157 - 126-4

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	15.1	15.1	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372157 - 126-4

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2590	2590	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372157 - 126-4

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372158 - 126-5

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	575	575	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372158 - 126-5

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	16.4	16.4	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372158 - 126-5

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	3080	3080	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372158 - 126-5

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372159 - 126-7

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	565	565	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372159 - 126-7

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	21.8	21.8	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372159 - 126-7

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

continued . . .

sample 372159 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2510	2510	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372159 - 126-7

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372160 - 126-9

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	832	832	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372160 - 126-9

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 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	1,4,5	2.25	<2.50	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372160 - 126-9

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114762 Date Analyzed: 2014-08-20 Analyzed By: MC
 Prep Batch: 97049 Sample Preparation: 2014-08-20 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1,4,5	2840	2840	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372160 - 126-9

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372161 - 126-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	384	384	<0.0680	mg/L	10	0.0680	2.5	0.0068

Sample: 372161 - 126-12

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	16.5	16.5	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372161 - 126-12

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114803 Date Analyzed: 2014-08-21 Analyzed By: MC
 Prep Batch: 97085 Sample Preparation: 2014-08-21 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	2220	2220	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372161 - 126-12

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114939 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97200 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372162 - 126-13

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

continued ...

sample 372162 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1,4,5	809	809	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372162 - 126-13

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1,4,5	38.2	38.2	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372162 - 126-13

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114803 Date Analyzed: 2014-08-21 Analyzed By: MC
 Prep Batch: 97085 Sample Preparation: 2014-08-21 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		1,4,5	3160	3160	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372162 - 126-13

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114949 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97209 Sample Preparation: 2014-08-26 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2,3,6,7	<1.80	<10.0	<1.80	mg/L	1	1.80	10	1.8

Sample: 372163 - 126 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1,4,5	1260	1260	<0.340	mg/L	50	0.340	2.5	0.0068

Sample: 372163 - 126 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 114793 Date Analyzed: 2014-08-18 Analyzed By: JR
 Prep Batch: 97077 Sample Preparation: 2014-08-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1,4,5	3.22	3.22	<0.126	mg/L	5	0.126	0.5	0.0251

Sample: 372163 - 126 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 114803 Date Analyzed: 2014-08-21 Analyzed By: MC
 Prep Batch: 97085 Sample Preparation: 2014-08-21 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1,4,5	5100	5100	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 372163 - 126 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 114949 Date Analyzed: 2014-08-26 Analyzed By: CF
 Prep Batch: 97209 Sample Preparation: 2014-08-26 Prepared By: CF

continued ...

sample 372163 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2,3,6,7	266	266	<18.0	mg/L	10	18.0	10	1.8

Method Blanks

Method Blank (1)

QC Batch: 114762
Prep Batch: 97049Date Analyzed: 2014-08-20
QC Preparation: 2014-08-20Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)

QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1,4,5	<0.00680	mg/L	0.0068

Method Blank (1)

QC Batch: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1,4,5	<0.0251	mg/L	0.0251

Method Blank (1)

QC Batch: 114803
Prep Batch: 97085Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: MC
Prepared By: MC

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		1,4,5	<2.50	mg/L	2.5

Method Blank (1)QC Batch: 114939
Prep Batch: 97200Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Method Blank (1)QC Batch: 114949
Prep Batch: 97209Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2,3,6,7	<1.80	mg/L	1.8

Duplicates

Duplicate (1) Duplicated Sample: 372160QC Batch: 114762
Prep Batch: 97049Date Analyzed: 2014-08-20
QC Preparation: 2014-08-20Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2920	2840	mg/L	1	3	10

Duplicate (1) Duplicated Sample: 372166QC Batch: 114803
Prep Batch: 97085Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1,4,5	2860	2810	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114762
Prep Batch: 97049Date Analyzed: 2014-08-20
QC Preparation: 2014-08-20Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,4,5	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,4,5	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: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,5	23.9	mg/L	1	25.0	<0.00680	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,5	23.8	mg/L	1	25.0	<0.00680	95	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: 114793
Prep Batch: 97077Date Analyzed: 2014-08-18
QC Preparation: 2014-08-18Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1,4,5	4.74	mg/L	1	5.00	<0.0251	95	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		1,4,5	4.73	mg/L	1	5.00	<0.0251	95	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: 114803
Prep Batch: 97085

Date Analyzed: 2014-08-21
QC Preparation: 2014-08-21

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Dissolved Solids		1,4,5	999	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		1,4,5	997	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: 114939
Prep Batch: 97200

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 114949
Prep Batch: 97209

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	80.7 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	80.7 - 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: 372161

QC Batch: 114939
Prep Batch: 97200

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	44.1	mg/L	1	50.0	<1.80	88	72.1 - 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		2,3,6,7	43.4	mg/L	1	50.0	<1.80	87	72.1 - 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: 372166

QC Batch: 114949
Prep Batch: 97209

Date Analyzed: 2014-08-26
QC Preparation: 2014-08-26

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2,3,6,7	45.5	mg/L	1	50.0	<1.80	91	72.1 - 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		2,3,6,7	44.8	mg/L	1	50.0	<1.80	90	72.1 - 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: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.4	94	90 - 110	2014-08-18

Standard (CCV-1)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.67	93	90 - 110	2014-08-18

Standard (CCV-2)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.6	94	90 - 110	2014-08-18

Standard (CCV-2)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.69	94	90 - 110	2014-08-18

Standard (CCV-3)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.7	95	90 - 110	2014-08-18

Standard (CCV-3)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.71	94	90 - 110	2014-08-18

Standard (CCV-4)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,5	mg/L	25.0	23.8	95	90 - 110	2014-08-18

Standard (CCV-4)

QC Batch: 114793

Date Analyzed: 2014-08-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1,4,5	mg/L	5.00	4.73	95	90 - 110	2014-08-18

Standard (ICV-1)

QC Batch: 114939

Date Analyzed: 2014-08-26

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-08-26

Standard (CCV-1)

QC Batch: 114939

Date Analyzed: 2014-08-26

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.48	90	85 - 115	2014-08-26

Standard (ICV-1)

QC Batch: 114949

Date Analyzed: 2014-08-26

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.34	87	85 - 115	2014-08-26

Standard (CCV-1)

QC Batch: 114949

Date Analyzed: 2014-08-26

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2,3,6,7	mg/L	5.00	4.62	92	85 - 115	2014-08-26

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	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	NELAP	T104704221-12-3	El Paso
6	NELAP	T104704219-14-10	Lubbock
7		2013-083	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.

14081826

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

TraceAnalysis, Inc.

Company Name: 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

Invoice to (if different from above):
 Organ Dairy (Former Del Norte), P.O. Box 130, Mesilla Park, NM 87C Linda Armstrong 575-233-3620
 Project #: 441973
 Project Name: Organ Dairy
 Sampler Signature: *JNV*

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

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
372157-1	126-4	1	500	X			X	X	X	X		8-18-14	10:49
	126-4	1	500	X			X	X	X	X			10:49
158-1	126-5	1	200	X			X	X	X	X			11:27
	126-5	1	200	X			X	X	X	X			11:27
159-1	126-7	1	500	X			X	X	X	X			9:54
	126-7	1	500	X			X	X	X	X			9:54
160-1	126-9	1	500	X			X	X	X	X			9:08
	126-9	1	500	X			X	X	X	X			9:08
161-1	126-12	1	500	X			X	X	X	X			12:17
	126-12	1	500	X			X	X	X	X			12:17
162-1	126-13	1	500	X			X	X	X	X			10:33
	126-13	1	500	X			X	X	X	X			10:33
163-1	126 Lagoon	1	200	X			X	X	X	X			9:35
	126 Lagoon	1	200	X			X	X	X	X			9:35

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
<i>JNV</i>	8-18-14	14:30	<i>JNV</i>	8-18-14	14:30
<i>JNV</i>	8-18-14	16:30	<i>JNV</i>	8-19-14	9:00

Lab Use Only	Intact	Headspace	Temp	Log in Review
Y/N	Y/N	Y/N	Y/N	Y/N
			2/2	8-18-14

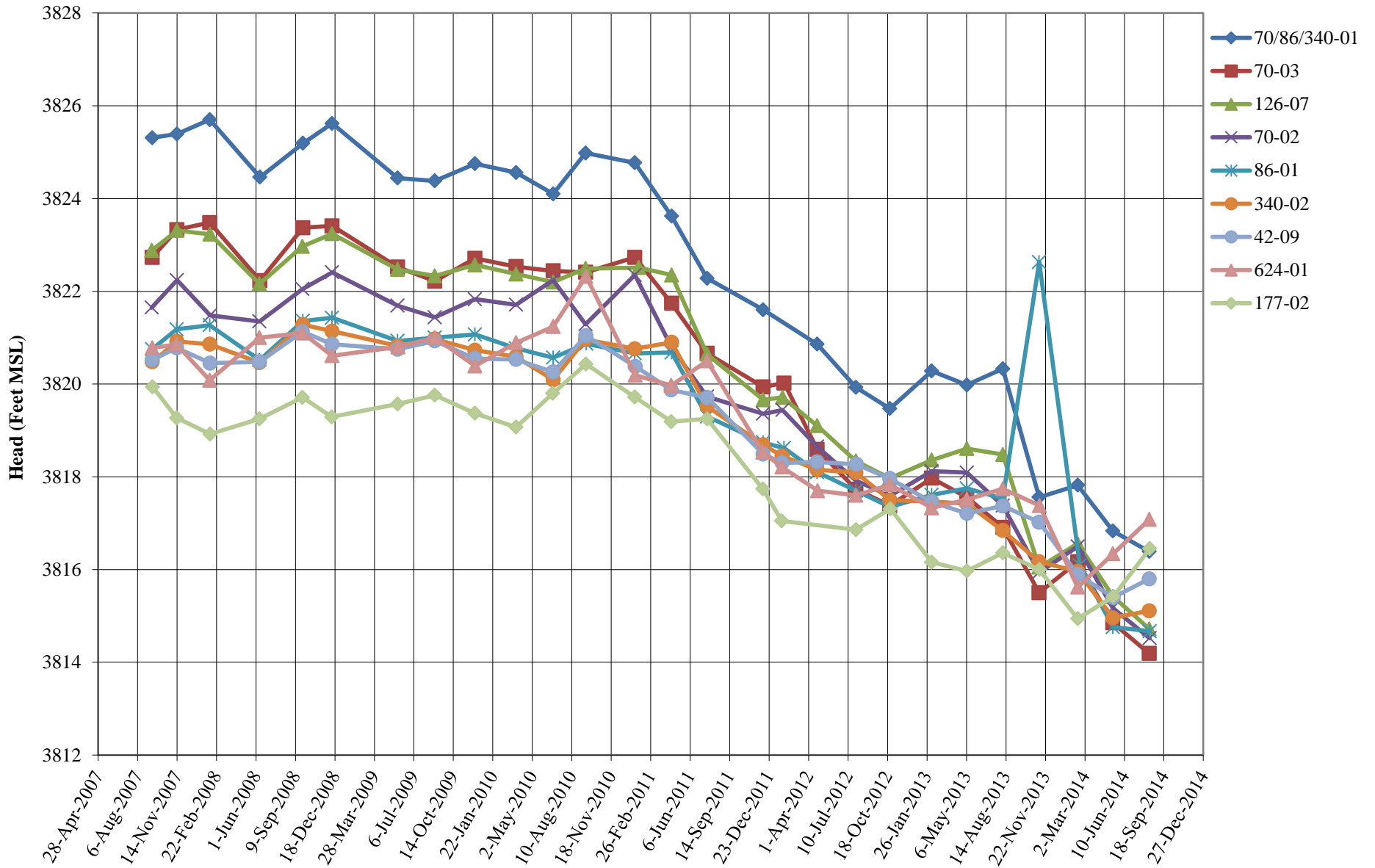
Remarks:
 Dry Weight Basis Required
 TRRP Report Required
 48891782

Page 1 of 1
 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # 14081826

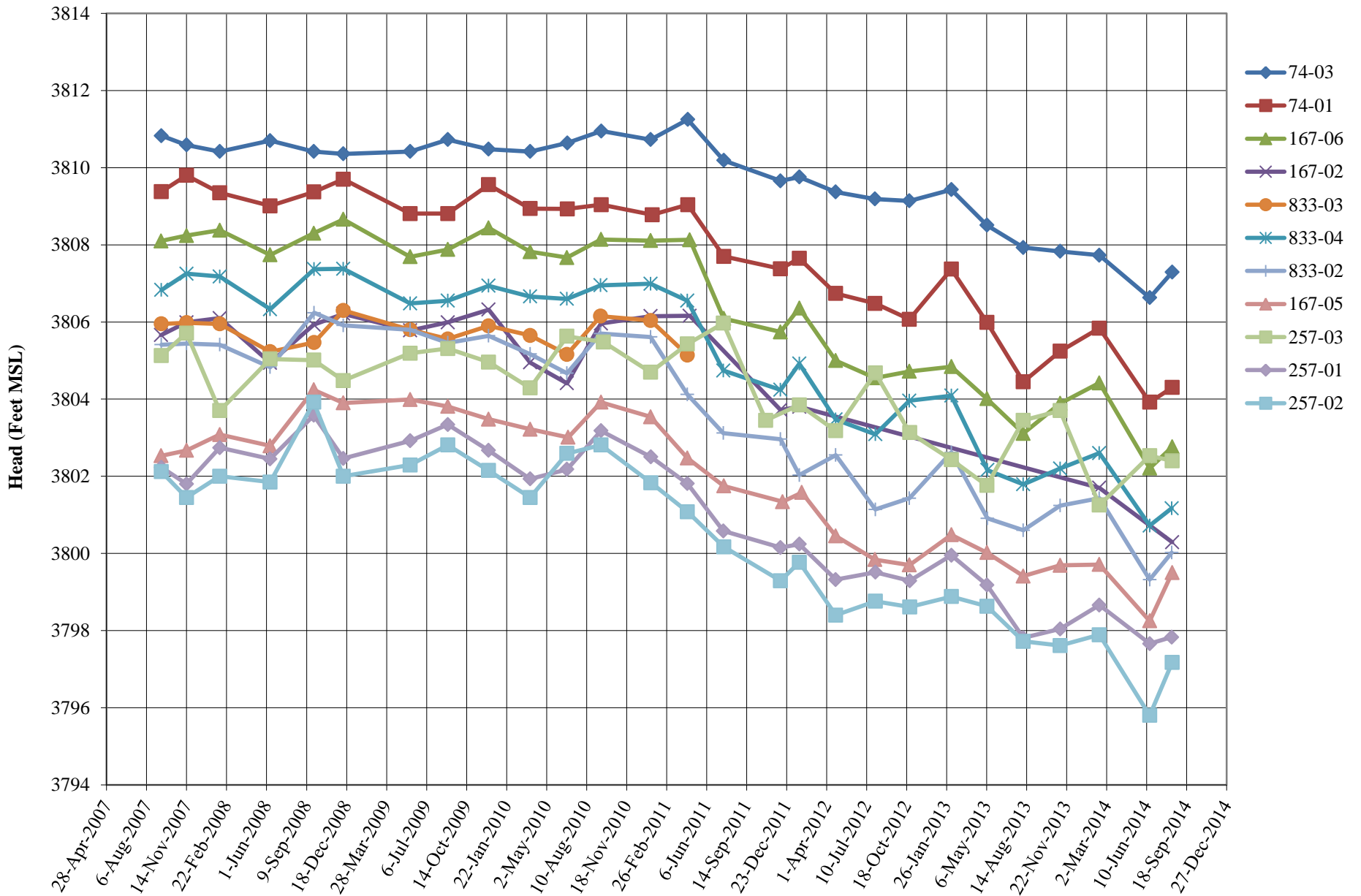
ANALYSIS REQUEST													
MTBE 8021B/602	BTEX 8021B/602	TPH 418.1 / TX1005	TX 1005 Extended (C35)	PAH 8270C	PAH 8270 (Low Level Analysis)	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	Nitrates EPA 300	Total Kjeldahl Nitrogen SM 4500 NORG C	Chloride EPA 300.0	Total Dissolved Solids SM 2540 C MOD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

**APPENDIX C
HYDROGRAPHS**

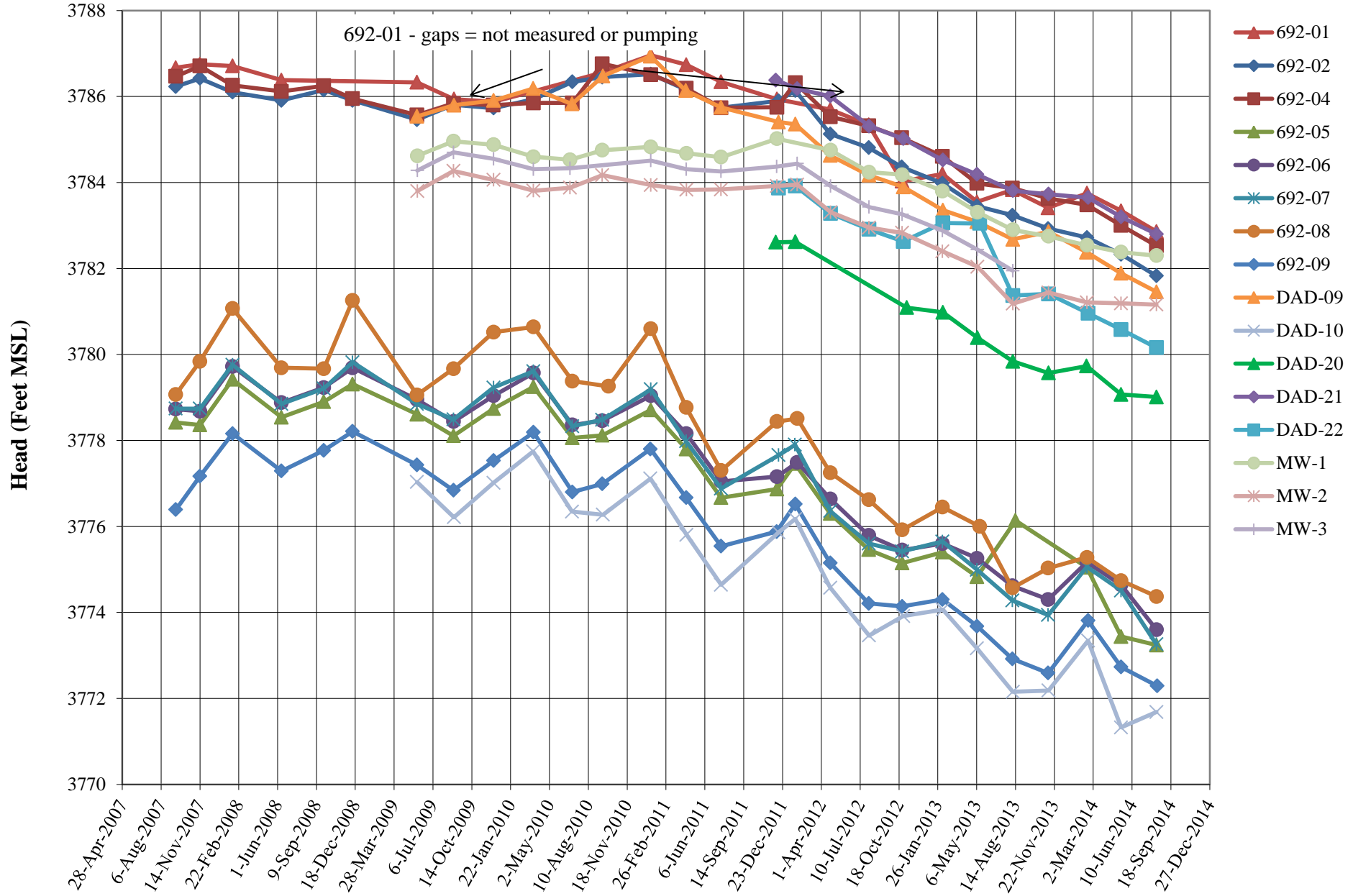
**HYDROGRAPHS FOR DP MONITORING WELLS NORTHERN PORTION
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



HYDROGRAPHS FOR DP MONITORING WELLS CENTRAL PORTION DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

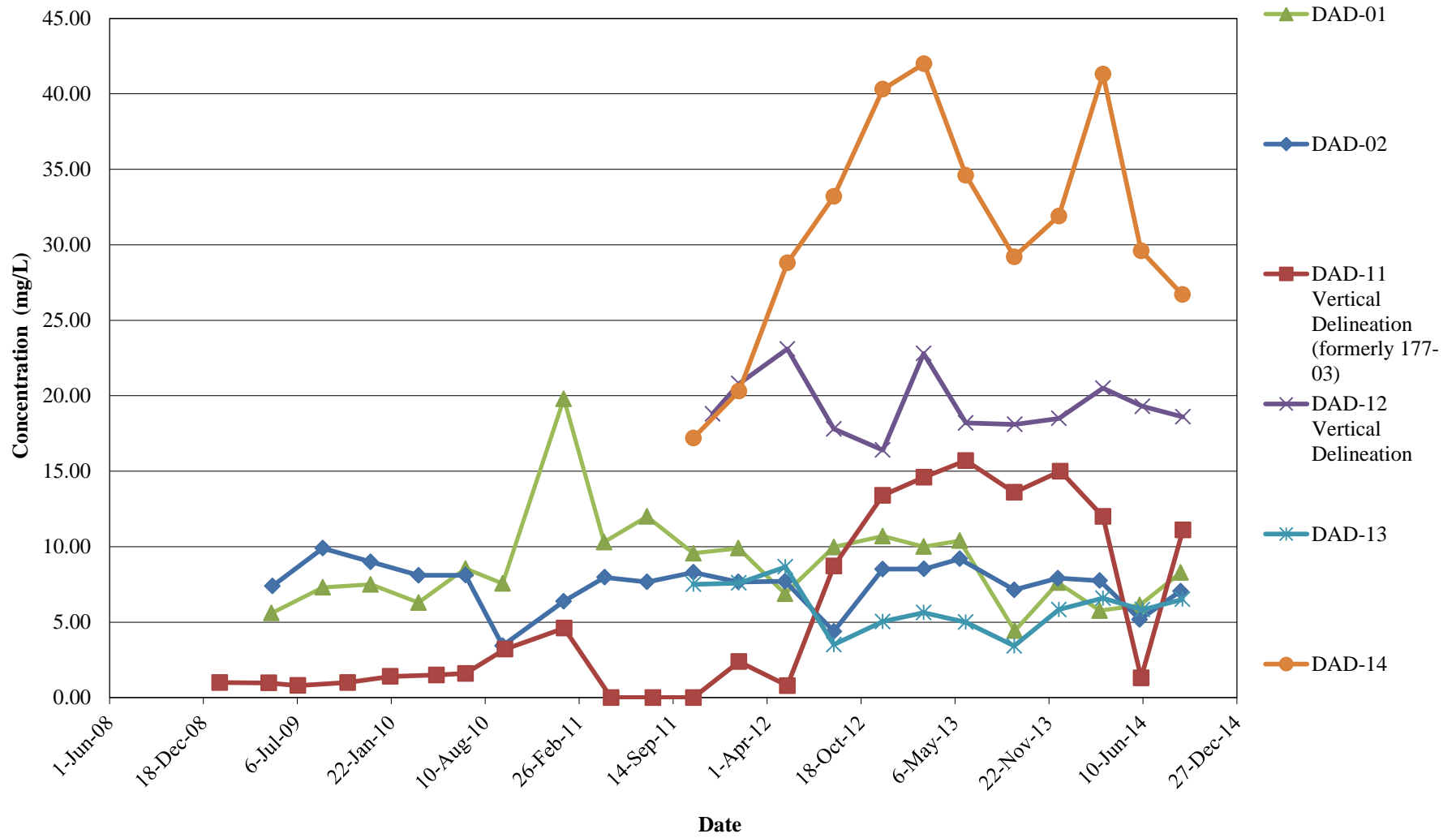


HYDROGRAPHS FOR DP MONITORING WELLS SOUTHERN PORTION DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO

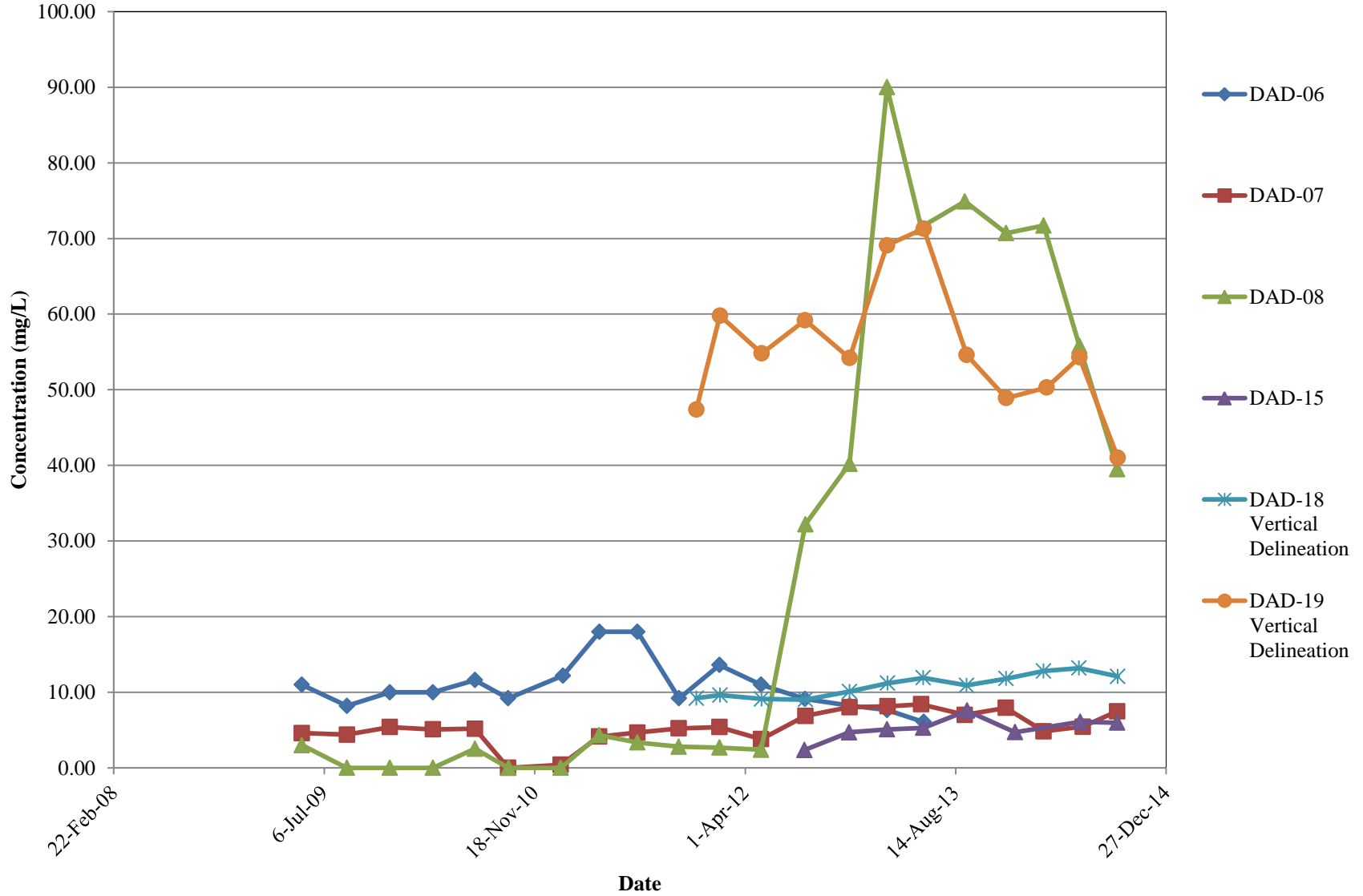


**APPENDIX D
CONCENTRATION TRENDS**

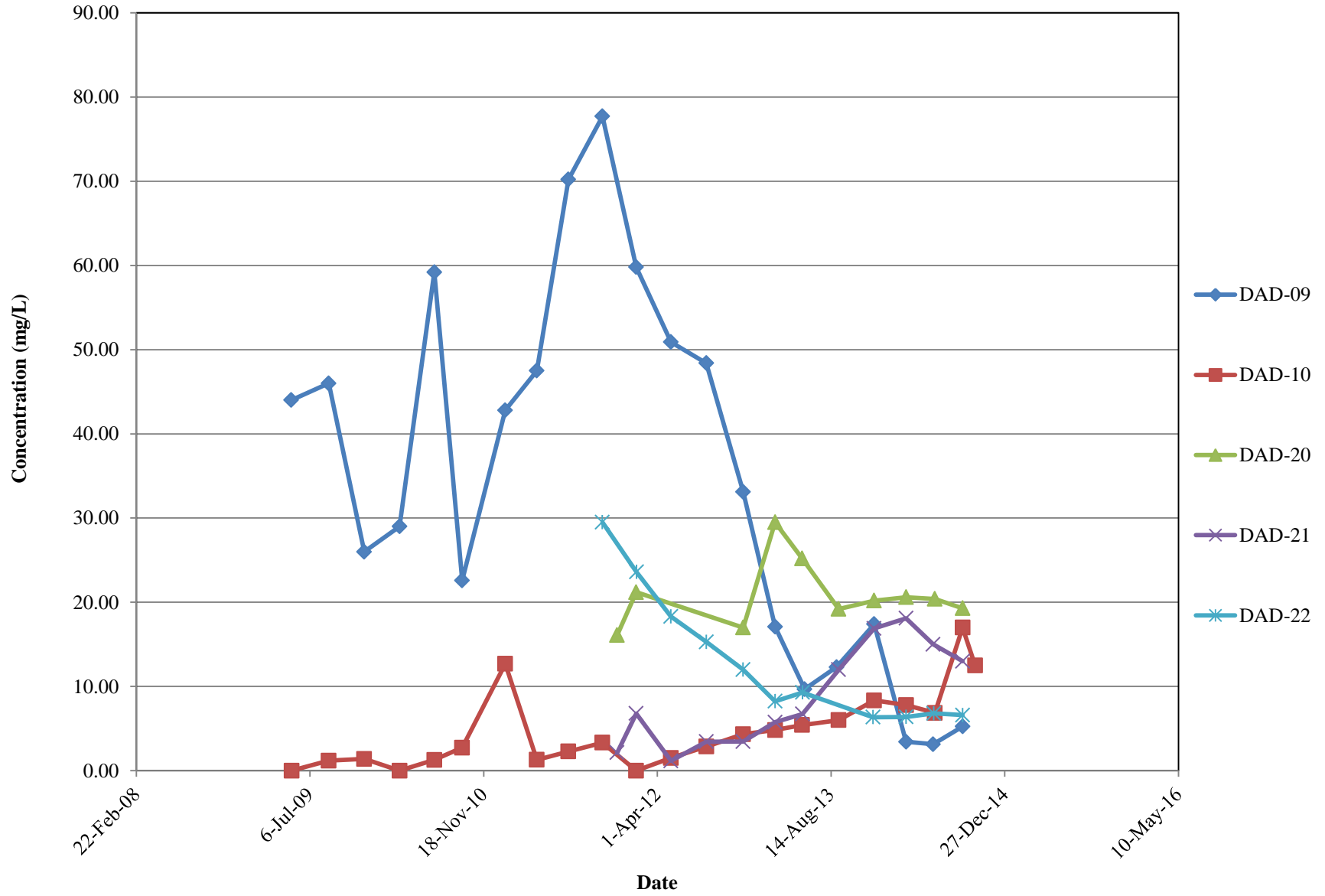
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IN SELECT NORTHERN DAD MONITORING WELLS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



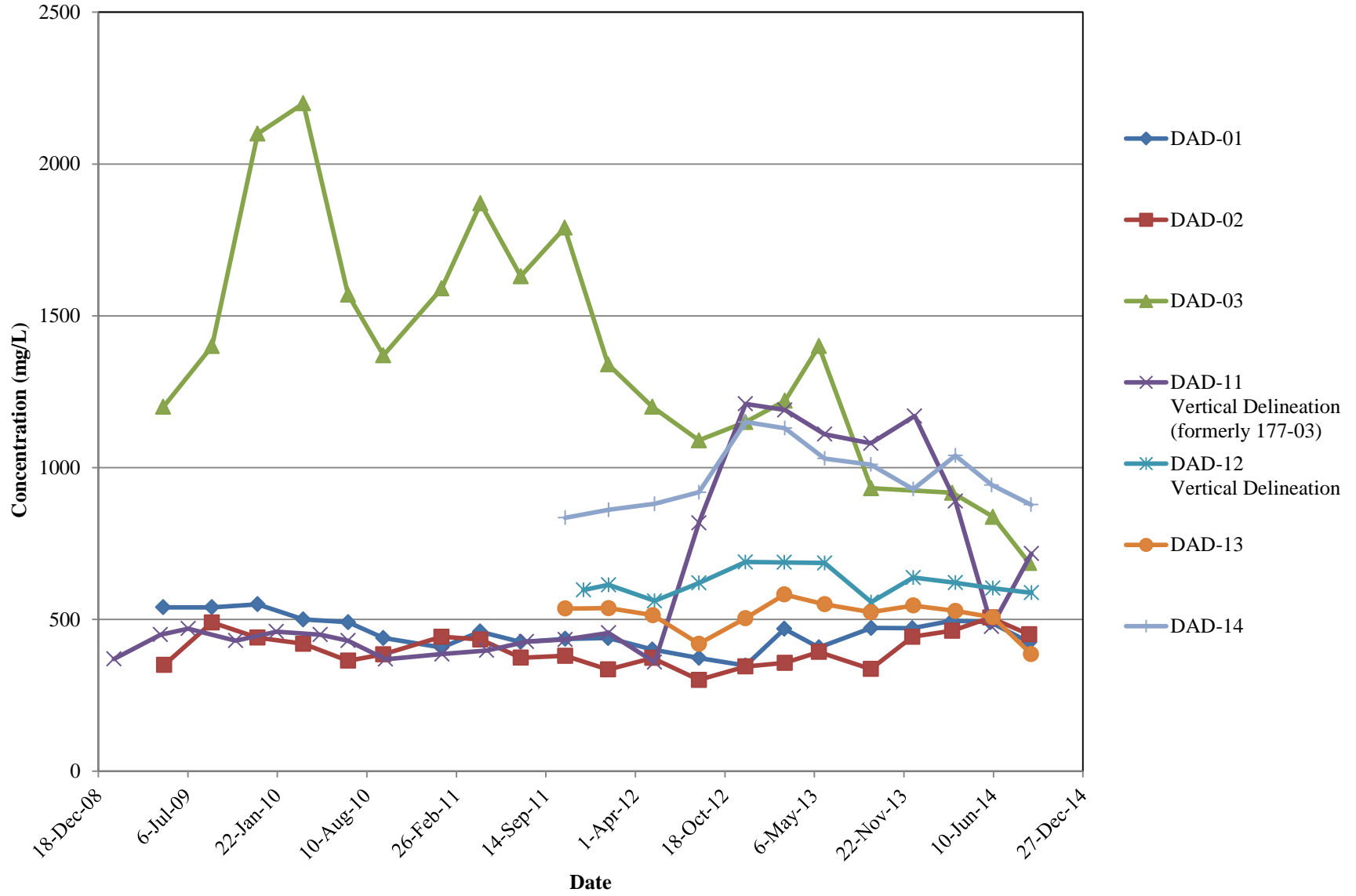
**NITRATE CONCENTRATION TRENDS
IN SELECT CENTRAL DAD WELLS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



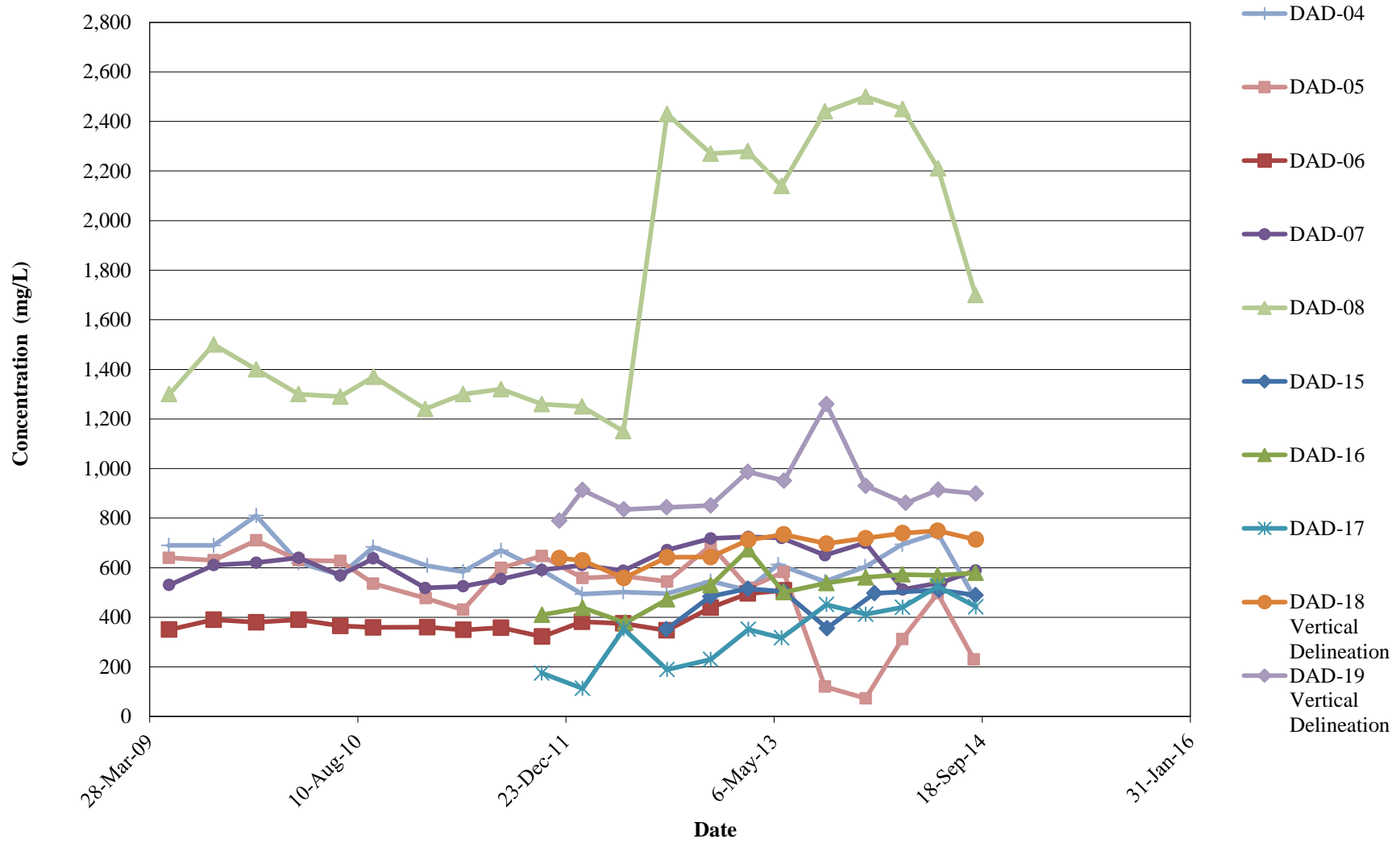
**NITRATE CONCENTRATION TRENDS
IN SELECT SOUTHERN DAD WELLS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**



**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**

