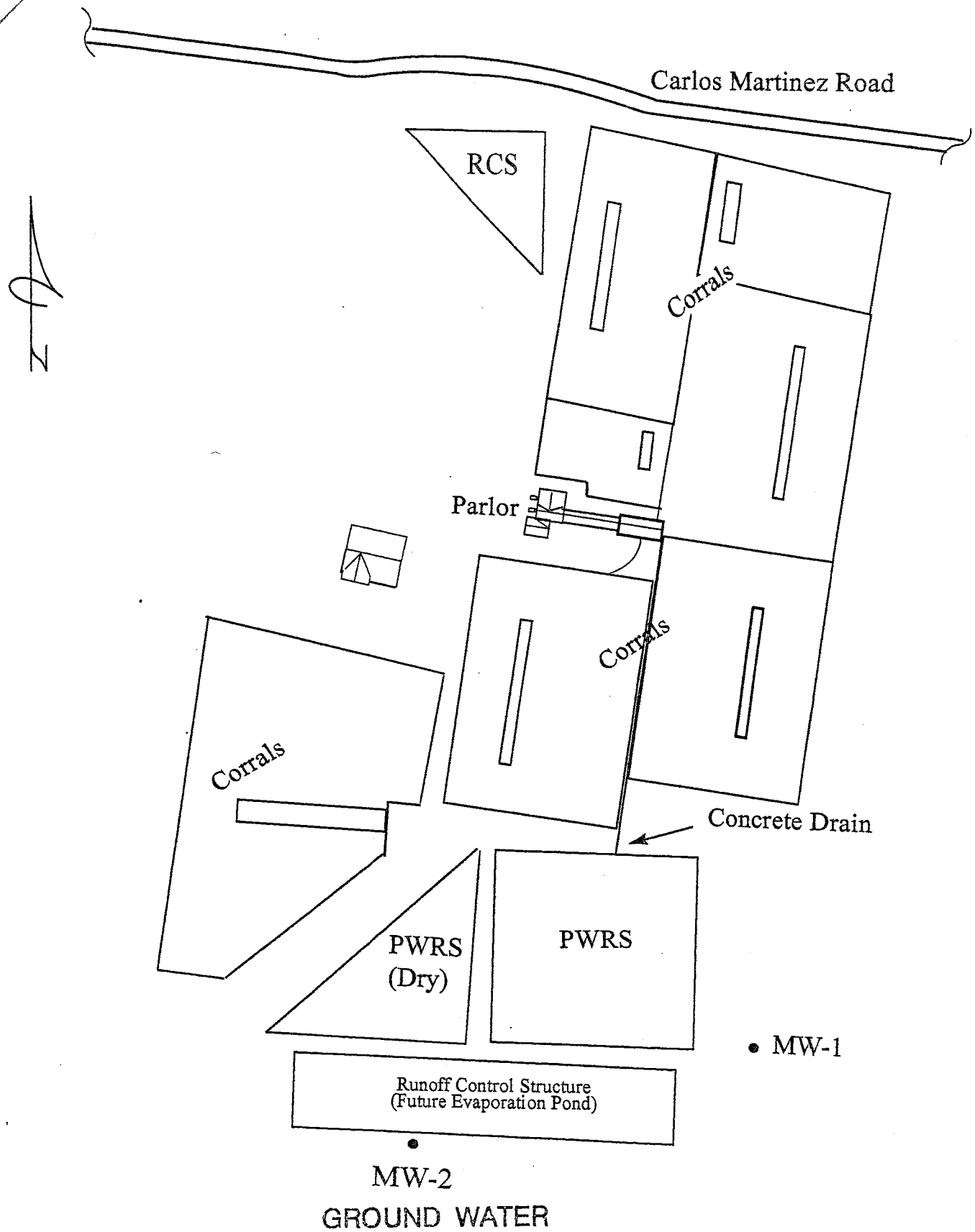
DP-563



Enviro Compliance Services, Inc.

Office: (505) 762-9674 Fax: (505) 762-3749

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OCT 14 2009

BUREAU

Title: A & M Dairy Facility Layout		DP-563
Date: 7/11/2006	DWG/Doc Ref 1"=150'	Sheet No 1/1

Quality (TDS):

TDS Concentration	250 mg/l
Source of Information	Prior Permit
Refer to Exhibit E.	

Part A -- Technical Adequacy

6. Permit Plans:

6.a. Operational Plan

6.a.i. ~~Treatment/Storage/Disposal or Utilization~~

~~Process water from the milking parlor is drained to a holding tank and then drained by an open concrete drain which takes the water to a clay lined evaporation pond~~. There is no passive or active solids separator, solids are naturally digested by bacteria in the manure. Bio-inoculates and/or oxygen may be added to the pond to enhance solids digestion.

6.a.ii. Facility Operating System

The process water system consists of the holding tank, a concrete lined open drain and the evaporation pond.

6.a.iii. Facility Operations and Maintenance

Process water from the parlor is drained by closed PVC drain pipes to a collection sump at the side of the parlor. From there the water is drained by an open concrete lined channel to the evaporation pond. The process water is evaporated, there is no land application. Bio-inoculates and/or oxygen may be added to the pond to enhance solids digestion.

The drain sump and concrete channel are cleaned out as needed to remove accumulated solids and sand. The removed solids are hauled off site with other manure or spread in the corrals to dry.

Mortality cattle are removed from the dairy by a contract service.

6.b. Monitoring Plan

6.b.i. Monitoring Locations

There are two monitoring wells at this location. Only one has been sampled by the present owner. This oversight has been corrected and two wells will be sampled in the future.

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Sep-09*

CLIENT:	A & M Dairy	**Client Sample ID:**	A&M Lagoon
Lab Order:	0909427	**Collection Date:**	9/21/2009 5:40:00 PM
Project:	A & M Dairy	**Date Received:**	9/22/2009
Lab ID:	0909427-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	890	10		mg/L	100	9/24/2009 12:39:27 AM
Nitrogen, Nitrite (As N)	ND	2.0		mg/L	20	9/22/2009 1:33:32 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	9/22/2009 1:33:32 PM
SM 4500 NORG C: TKN						Analyst: KS
Nitrogen, Kjeldahl, Total	46	1.0		mg/L	1	9/25/2009 10:34:00 AM

N.B. lowest TKN

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Feb-09*

CLIENT:	Enviro Compliance Services	**Client Sample ID:**	A&M Lagoon
Lab Order:	0901334	**Collection Date:**	1/23/2009 11:35:00 AM
Project:	A&M Dairy and Heraa Dairy	**Date Received:**	1/23/2009
Lab ID:	0901334-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	990	5.0		mg/L	50	1/26/2009 6:18:00 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	1/23/2009 7:29:18 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	1/23/2009 7:29:18 PM
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kieldahl, Total	840	20		mg/L	1	1/24/2009

N.B. highest TKN

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

GROUND WATER

AUG 0 7 2008

BUREAU

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Feb-08*

CLIENT: A & M Dairy
Lab Order: 0801220
Project: A & M Dairy
Lab ID: 0801220-02

Client Sample ID: Lagoon
Collection Date: 1/22/2008 2:10:00 PM
Date Received: 1/23/2008
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SLB
Chloride	790	2.5		mg/L	25	1/23/2008 5:19:20 PM
Nitrogen, Nitrate (As N)	ND	2.5		mg/L	25	1/23/2008 5:19:20 PM
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	10000	2000		mg/L	1	1/23/2008
SM4500-NORG C: TKN						Analyst: KS
Nitrogen, Kjeldahl, Total	700	20		mg/L	1	1/29/2008

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

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127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	*Analyte Detected in Method Blank*
E	*Result is Estimated*
H	*Analyzed Out of Hold Time*
N	*Tentatively Identified Compound*
S	*Subcontracted*
1-9	*See Footnote*

A & M DAIRY
attn: **PEDRAM GHOREISHI**
P.O. BOX 591
VEGUITA NM 87062

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: **A & M DAIRY**
Project: **M.W./LAGOON**
Order: **0512439 AMD01** Receipt: **12-20-05**

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: ***A&M LAGOON*** Collected: *12-20-05 10:00:00* By: *PG*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0512439-0001A		**EPA 160.1 Total Dissolved Solids**					By:	KAS		
WTDS-05-142	WC.2005.3407.4	10-33-3	Total Dissolved Solids	5620	mg/L	1	10		12-21-05	12-22-05
0512439-0001A		**EPA 300.0 Anions by IC**					By:	JTK		
W05972	WC.2005.3397.39	16887-00-6	Chloride	818	mg/L	100	0.05		12-20-05	12-21-05
W05972	WC.2005.3397.40	14797-65-0	Nitrate, as N	ND	mg/L	10	0.05		12-20-05	12-21-05
0512439-0001B		**SM 4500-N & NH3B,C**					By:	ECC		
W05987	WC.2005.3445.22	7727-37-9	Kjeldahl Nitrogen, Total	541	mg/L	250	0.2		12-27-05	12-28-05

Sample: ***A&M MW*** Collected: *12-20-05 10:00:00* By: *PG*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0512439-0002A		**SM 4500-N & NH3B,C**					By:	ECC		
W05987	WC.2005.3445.17	7727-37-9	Kjeldahl Nitrogen, Total	0.5	mg/L	1	0.2		12-27-05	12-28-05
0512439-0002B		**EPA 160.1 Total Dissolved Solids**					By:	KAS		
WTDS-05-142	WC.2005.3407.6	10-33-3	Total Dissolved Solids	251	mg/L	1	10		12-21-05	12-22-05
0512439-0002B		**EPA 300.0 Anions by IC**					By:	JTK		
W05972	WC.2005.3397.42	16887-00-6	Chloride	11.6	mg/L	10	0.05		12-20-05	12-21-05
W05972	WC.2005.3397.42	14797-65-0	Nitrate, as N	0.640	mg/L	10	0.05		12-20-05	12-21-05

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Hall Environmental Analysis Laboratory, Inc.

Date: *30-Sep-09*

CLIENT: A & M Dairy
Lab Order: 0909427
Project: A & M Dairy
Lab ID: 0909427-01

Client Sample ID: A&M MW #1
Collection Date: 9/21/2009 5:30:00 PM
Date Received: 9/22/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	13	0.10		mg/L	1	9/22/2009 12:23:53 PM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	9/22/2009 12:23:53 PM
Nitrogen, Nitrate (As N)	0.81	0.10		mg/L	1	9/22/2009 12:23:53 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	9/25/2009 10:34:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *09-Jun-09*

CLIENT:	A & M Dairy	**Client Sample ID:**	MW#1
Lab Order:	0905473	**Collection Date:**	5/26/2009 5:40:00 PM
Project:	A & M Dairy	**Date Received:**	5/27/2009
Lab ID:	0905473-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	12	0.10		mg/L	1	5/27/2009 12:51:49 PM
Nitrogen, Nitrate (As N)	0.84	0.10		mg/L	1	5/27/2009 12:51:49 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	270	20		mg/L	1	5/28/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	6/2/2009

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Feb-09*

CLIENT:	Enviro Compliance Services	**Client Sample ID:**	A&M MW#1
Lab Order:	0901334	**Collection Date:**	1/23/2009 11:30:00 AM
Project:	A&M Dairy and Heraa Dairy	**Date Received:**	1/23/2009
Lab ID:	0901334-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	41	0.10		mg/L	1	1/23/2009 6:54:29 PM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	1/23/2009 6:54:29 PM
Nitrogen, Nitrate (As N)	0.70	0.10		mg/L	1	1/23/2009 6:54:29 PM
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/24/2009

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

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127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	*Analyte Detected in Method Blank*
E	*Result is Estimated*
H	*Analyzed Out of Hold Time*
N	*Tentatively Identified Compound*
S	*Subcontracted*
1-9	*See Footnote*

A & M DAIRY
attn: **PEDRAM GHOREISHI**
P.O. BOX 591
VEGUITA NM 87062

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Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: **A & M DAIRY**
Project: **M.W./LAGOON**
Order: **0512439 AMD01** Receipt: **12-20-05**

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: ***A&M LAGOON*** Collected: *12-20-05 10:00:00* By: *PG*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0512439-0001A		**EPA 160.1 Total Dissolved Solids**					By:	KAS		
WTDS-05-142	WC.2005.3407.4	10-33-3	Total Dissolved Solids	5620	mg/L	1	10		12-21-05	12-22-05
0512439-0001A		**EPA 300.0 Anions by IC**					By:	JTK		
W05972	WC.2005.3397.39	16887-00-6	Chloride	818	mg/L	100	0.05		12-20-05	12-21-05
W05972	WC.2005.3397.40	14797-65-0	Nitrate, as N	ND	mg/L	10	0.05		12-20-05	12-21-05
0512439-0001B		**SM 4500-N & NH3B,C**					By:	ECC		
W05987	WC.2005.3445.22	7727-37-9	Kjeldahl Nitrogen, Total	541	mg/L	250	0.2		12-27-05	12-28-05

Sample: ***A&M MW*** Collected: *12-20-05 10:00:00* By: *PG*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0512439-0002A		**SM 4500-N & NH3B,C**					By:	ECC		
W05987	WC.2005.3445.17	7727-37-9	Kjeldahl Nitrogen, Total	0.5	mg/L	1	0.2		12-27-05	12-28-05
0512439-0002B		**EPA 160.1 Total Dissolved Solids**					By:	KAS		
WTDS-05-142	WC.2005.3407.6	10-33-3	Total Dissolved Solids	251	mg/L	1	10		12-21-05	12-22-05
0512439-0002B		**EPA 300.0 Anions by IC**					By:	JTK		
W05972	WC.2005.3397.42	16887-00-6	Chloride	11.6	mg/L	10	0.05		12-20-05	12-21-05
W05972	WC.2005.3397.42	14797-65-0	Nitrate, as N	0.640	mg/L	10	0.05		12-20-05	12-21-05

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Hall Environmental Analysis Laboratory, Inc.

Date: *30-Sep-09*

CLIENT: A & M Dairy
Lab Order: 0909427
Project: A & M Dairy
Lab ID: 0909427-02

Client Sample ID: A&M MW #2
Collection Date: 9/21/2009 5:20:00 PM
Date Received: 9/22/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	15	0.10		mg/L	1	9/22/2009 1:16:08 PM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	9/22/2009 1:16:08 PM
Nitrogen, Nitrate (As N)	0.61	0.10		mg/L	1	9/22/2009 1:16:08 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	9/25/2009 10:34:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *09-Jun-09*

CLIENT:	A & M Dairy	**Client Sample ID:**	MW#2
Lab Order:	0905473	**Collection Date:**	5/26/2009 6:10:00 PM
Project:	A & M Dairy	**Date Received:**	5/27/2009
Lab ID:	0905473-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	11	0.10		mg/L	1	5/27/2009 1:26:37 PM
● Nitrogen, Nitrate (As N)	0.65	0.10		mg/L	1	5/27/2009 1:26:37 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	240	20		mg/L	1	5/28/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	6/3/2009

N.B. highest
NO_3-N

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Lagoon

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Feb-09*

CLIENT:	Enviro Compliance Services	**Client Sample ID:**	A&M MW#2
Lab Order:	0901334	**Collection Date:**	1/23/2009 11:40:00 AM
Project:	A&M Dairy and Heraa Dairy	**Date Received:**	1/23/2009
Lab ID:	0901334-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	11	0.10		mg/L	1	1/23/2009 8:21:31 PM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	1/23/2009 8:21:31 PM
Nitrogen, Nitrate (As N)	0.61	0.10		mg/L	1	1/23/2009 8:21:31 PM
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	[illegible]	1.0		mg/L	1	1/24/2009

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: [redacted] 01-Feb-08

CLIENT: ~~A & M Dairy~~
Lab Order: 0801220
Project: A & M Dairy
Lab ID: 0801220-01

Client Sample ID: MW #2
Collection Date: 1/22/2008 2:15:00 PM
Date Received: 1/23/2008
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	~~11~~	0.10		mg/L	1	1/23/2008 2:25:16 PM
Nitrogen, Nitrate (As N)	0.61	0.10		mg/L	1	1/23/2008 2:25:16 PM
SM 2540C: TDS						Analyst: **TAF**
Total Dissolved Solids	~~240~~	20		mg/L	1	1/23/2008
SM4500-NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	~~ND~~	1.0		mg/L	1	1/29/2008

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
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