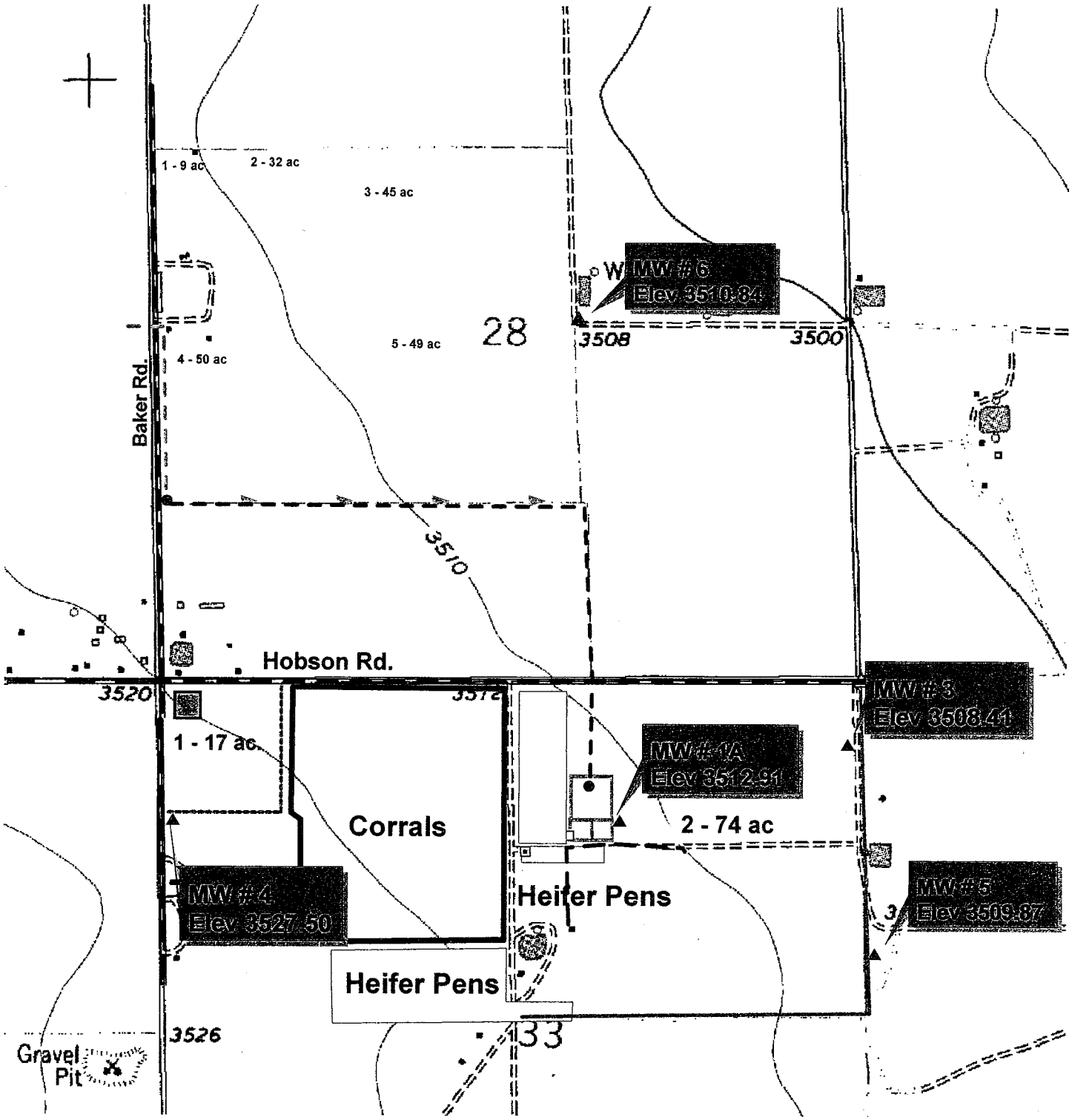
Arroyo Dairy
LADS Map

GROUND WATER
DEC 0 4 2009
BUREAU

DP-164



2000 0 2000 4000 Feet

DP-764

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Nov-09*

CLIENT: Estes Sampling Service
Lab Order: 0911096
Project: Arroyo Dairy
Lab ID: 0911096-01

Client Sample ID: MW-1a
Collection Date: 11/4/2009 10:22:00 AM
Date Received: 11/5/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	620	5.0		mg/L	50	11/5/2009 5:28:48 PM
Nitrogen, Nitrate (As N)	55	1.0		mg/L	10	11/5/2009 5:11:23 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	4060	20.0		mg/L	1	11/10/2009 2:16:00 PM
SM 4500 NORG C: TKN						Analyst: KS
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	11/9/2009 2:48:00 PM

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: *13-Nov-09*

CLIENT: Estes Sampling Service
Lab Order: 0911096
Project: Arroyo Dairy
Lab ID: 0911096-02

Client Sample ID: MW-5
Collection Date: 11/4/2009 9:44:00 AM
Date Received: 11/5/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	860	10		mg/L	100	11/5/2009 6:38:26 PM
Nitrogen, Nitrate (As N)	48	1.0		mg/L	10	11/5/2009 6:21:01 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	5000	100		mg/L	1	11/10/2009 2:16:00 PM
SM 4500 NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	11/9/2009 2:48:00 PM

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		

DP-764

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Nov-09*

CLIENT: Estes Sampling Service
Lab Order: 0911096
Project: Arroyo Dairy
Lab ID: 0911096-03

Client Sample ID: MW-6
Collection Date: 11/4/2009 9:13:00 AM
Date Received: 11/5/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: LJB
EPA METHOD 300.0: ANIONS						
Chloride	1000	20		mg/L	200	11/5/2009 7:13:15 PM
Nitrogen, Nitrate (As N)	12	1.0		mg/L	10	11/5/2009 6:55:50 PM
						Analyst: MMS
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	4390	20.0		mg/L	1	11/10/2009 2:16:00 PM
						Analyst: KS
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	11/9/2009 2:48:00 PM

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: *13-Nov-09*

CLIENT: Estes Sampling Service
Lab Order: 0911096
Project: Arroyo Dairy
Lab ID: 0911096-04

Client Sample ID: Lagoon
Collection Date: 11/4/2009 10:28:00 AM
Date Received: 11/5/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: **LJB**
EPA METHOD 300.0: ANIONS						
Chloride	570	5.0		mg/L	50	11/5/2009 7:48:04 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	11/5/2009 7:30:39 PM
						Analyst: **MMS**
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	3140	200		mg/L	1	11/10/2009 2:16:00 PM
						Analyst: **KS**
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	240	5.0		mg/L	1	11/9/2009 2:48:00 PM

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		

DP-764

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Aug-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-1a
Lab Order:	0908308	**Collection Date:**	8/18/2009 11:19:00 AM
Project:	Arroyo Dairy	**Date Received:**	8/19/2009
Lab ID:	0908308-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	660	5.0		mg/L	50	8/19/2009 7:00:46 PM
Nitrogen, Nitrate (As N)	50	1.0		mg/L	10	8/19/2009 6:43:22 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	4050	20.0		mg/L	1	8/21/2009
SM 4500 NORG C: TKN						Analyst: LJB
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	8/20/2009

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: *28-Aug-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-5
Lab Order:	0908308	**Collection Date:**	8/18/2009 10:33:00 AM
Project:	Arroyo Dairy	**Date Received:**	8/19/2009
Lab ID:	0908308-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	890	5.0		mg/L	50	8/19/2009 7:35:34 PM
Nitrogen, Nitrate (As N)	47	1.0		mg/L	10	8/19/2009 7:18:10 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	4960	400		mg/L	1	8/21/2009
SM 4500 NORG C: TKN						Analyst: LJB
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	8/20/2009

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		

DP-764

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Aug-09*

CLIENT: Estes Sampling Service
Lab Order: 0908308
Project: Arroyo Dairy
Lab ID: 0908308-03

Client Sample ID: MW-6
Collection Date: 8/18/2009 9:08:00 AM
Date Received: 8/19/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: LJB
EPA METHOD 300.0: ANIONS						
Chloride	1100	10		mg/L	100	8/21/2009 1:17:16 PM
Nitrogen, Nitrate (As N)	12	1.0		mg/L	10	8/19/2009 7:52:59 PM
						Analyst: MMS
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	4410	20.0		mg/L	1	8/21/2009
						Analyst: LJB
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	8/20/2009

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: *28-Aug-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	Lagoon
Lab Order:	0908308	**Collection Date:**	8/18/2009 11:28:00 AM
Project:	Arroyo Dairy	**Date Received:**	8/19/2009
Lab ID:	0908308-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	630	5.0		mg/L	50	8/19/2009 8:45:13 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	8/19/2009 8:27:49 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	3070	200		mg/L	1	8/21/2009
SM 4500 NORG C: TKN						Analyst: **LJB**
Nitrogen, Kjeldahl, Total	230	20		mg/L	1	8/25/2009 9:27:00 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		

DP-764

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Jun-09*

CLIENT: Estes Sampling Service
Lab Order: 0905427
Project: Arroyo Dairy
Lab ID: 0905427-01

Client Sample ID: MW-1a
Collection Date: 5/21/2009 3:49:00 PM
Date Received: 5/22/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	660	2.0		mg/L	20	5/22/2009 4:15:09 PM
Nitrogen, Nitrate (As N)	53	2.0		mg/L	20	5/22/2009 4:15:09 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	4000	20		mg/L	1	5/26/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	5/28/2009

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: *08-Jun-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-5
Lab Order:	0905427	**Collection Date:**	5/21/2009 3:00:00 PM
Project:	Arroyo Dairy	**Date Received:**	5/22/2009
Lab ID:	0905427-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	900	5.0		mg/L	50	5/23/2009 5:07:08 PM
Nitrogen, Nitrate (As N)	49	1.0		mg/L	10	5/22/2009 4:32:33 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	4900	400		mg/L	1	5/26/2009
SM 4500-NORG C: TKN						Analyst: **KMS**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	5/28/2009

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		

DR-364

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Jun-09*

CLIENT: Estes Sampling Service
Lab Order: 0905427
Project: Arroyo Dairy
Lab ID: 0905427-04

Client Sample ID: Lagoon
Collection Date: 5/21/2009 4:01:00 PM
Date Received: 5/22/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	650	2.0		mg/L	20	5/22/2009 6:51:49 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	5/22/2009 6:51:49 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	4500	400		mg/L	1	5/26/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	500	20		mg/L	1	5/28/2009

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		

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Jun-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-6
Lab Order:	0905427	**Collection Date:**	5/21/2009 2:14:00 PM
Project:	Arroyo Dairy	**Date Received:**	5/22/2009
Lab ID:	0905427-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	1100	5.0		mg/L	50	5/22/2009 5:59:36 PM
Nitrogen, Nitrate (As N)	12	0.10		mg/L	1	5/22/2009 5:42:12 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	4700	200		mg/L	1	5/26/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	5/28/2009

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		

DP-764

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Mar-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-1A
Lab Order:	0902198	**Collection Date:**	2/18/2009 12:10:00 PM
Project:	Arroyo Dairy	**Date Received:**	2/19/2009
Lab ID:	0902198-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	610	2.0		mg/L	20	2/19/2009 5:04:27 PM
Nitrogen, Nitrate (As N)	52	1.0		mg/L	10	2/19/2009 4:47:02 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: JMP
Total Dissolved Solids	3100	400		mg/L	1	2/19/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	2/20/2009

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: *02-Mar-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-5
Lab Order:	0902198	**Collection Date:**	2/18/2009 11:00:00 AM
Project:	Arroyo Dairy	**Date Received:**	2/19/2009
Lab ID:	0902198-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	850	5.0		mg/L	50	2/19/2009 6:14:05 PM
Nitrogen, Nitrate (As N)	46	1.0		mg/L	10	2/19/2009 5:56:41 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: JMP
Total Dissolved Solids	3800	400		mg/L	1	2/19/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	2/20/2009

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		

DP-764

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Mar-09*

CLIENT: Estes Sampling Service
Lab Order: 0902198
Project: Arroyo Dairy
Lab ID: 0902198-04

Client Sample ID: MW-6
Collection Date: 2/18/2009 9:53:00 AM
Date Received: 2/19/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	980	5.0		mg/L	50	2/19/2009 6:48:54 PM
Nitrogen, Nitrate (As N)	11	0.10		mg/L	1	2/19/2009 6:31:29 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: JMP
Total Dissolved Solids	3300	400		mg/L	1	2/19/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	2.0		mg/L	1	2/20/2009

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: *02-Mar-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	Lagoon
Lab Order:	0902198	**Collection Date:**	2/18/2009 12:18:00 PM
Project:	Arroyo Dairy	**Date Received:**	2/19/2009
Lab ID:	0902198-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	620	2.0		mg/L	20	2/19/2009 8:33:22 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	2/19/2009 8:15:57 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: JMP
Total Dissolved Solids	4200	400		mg/L	1	2/19/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	410	10		mg/L	1	2/20/2009

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: *02-Mar-09*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-3
Lab Order:	0902198	**Collection Date:**	2/18/2009 12:45:00 PM
Project:	Arroyo Dairy	**Date Received:**	2/19/2009
Lab ID:	0902198-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	1000	5.0		mg/L	50	2/19/2009 5:39:17 PM
Nitrogen, Nitrate (As N)	70	1.0		mg/L	10	2/19/2009 5:21:52 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: JMP
Total Dissolved Solids	9700	400		mg/L	1	2/19/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	2/20/2009

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		

DP-164

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Dec-08*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-3
Lab Order:	0812019	**Collection Date:**	12/1/2008 11:51:00 AM
Project:	Arroyo Dairy	**Date Received:**	12/2/2008
Lab ID:	0812019-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	1000	5.0		mg/L	50	12/3/2008 1:59:22 AM
Nitrogen, Nitrate (As N)	75	1.0		mg/L	10	12/2/2008 7:18:58 PM
SM 2540C: TDS						Analyst: **KMB**
Total Dissolved Solids	5200	400		mg/L	1	12/3/2008
SM 4500 NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	12/4/2008

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		

DP-764

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Feb-08*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW #3
Lab Order:	0802227	**Collection Date:**	2/19/2008 9:37:00 AM
Project:	Arroyo Dairy	**Date Received:**	2/20/2008
Lab ID:	0802227-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	950	5.0		mg/L	50	2/20/2008 5:51:36 PM
Nitrogen, Nitrate (As N)	72	1.0		mg/L	10	2/20/2008 6:34:11 PM
SM 2540C: TDS						Analyst: **TAF**
Total Dissolved Solids	5100	20		mg/L	1	2/22/2008
SM4500-NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	2/25/2008

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		

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-07*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW #3
Lab Order:	0711311	**Collection Date:**	11/19/2007 10:44:00 AM
Project:	Arroyo Dairy	**Date Received:**	11/20/2007
Lab ID:	0711311-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **KS**
Chloride	940	5.0		mg/L	50	11/20/2007 6:53:52 PM
Nitrogen, Nitrate (As N)	70	1.0		mg/L	10	11/20/2007 6:36:27 PM
SM 2540C: TDS						Analyst: **TAF**
Total Dissolved Solids	4800	400		mg/L	1	11/21/2007
SM4500-NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	5.6	5.0		mg/L	1	11/29/2007

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		

DP-764

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Sep-08*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW #4
Lab Order:	0808479	**Collection Date:**	8/28/2008 12:29:00 PM
Project:	Arroyo Dairy	**Date Received:**	8/29/2008
Lab ID:	0808479-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **IC**
Chloride	180	1.0		mg/L	10	8/29/2008 2:37:06 PM
Nitrogen, Nitrate (As N)	2.3	0.10		mg/L	1	8/29/2008 2:19:41 PM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	1100	100		mg/L	1	9/2/2008
SM4500-NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	9/4/2008

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		

Hall Environmental Analysis Laboratory, Inc.

Date: *23-May-08*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW#4
Lab Order:	0805190	**Collection Date:**	5/13/2008 9:42:00 AM
Project:	Arroyo Dairy	**Date Received:**	5/14/2008
Lab ID:	0805190-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	78	1.0		mg/L	10	5/14/2008 7:52:15 PM
Nitrogen, Nitrate (As N)	1.6	1.0		mg/L	10	5/14/2008 7:52:15 PM
SM 2540C TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	870	100		mg/L	1	5/16/2008
SM4500-NORG C: TKN						Analyst: **TAF**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	5/19/2008

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		

DP-164

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Feb-08*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW #4
Lab Order:	0802227	**Collection Date:**	2/19/2008 8:03:00 AM
Project:	Arroyo Dairy	**Date Received:**	2/20/2008
Lab ID:	0802227-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SLB**
Chloride	110	1.0		mg/L	10	2/20/2008 7:01:14 PM
Nitrogen, Nitrate (As N)	28	1.0		mg/L	10	2/20/2008 7:01:14 PM
SM 2540C: TDS						Analyst: **TAF**
Total Dissolved Solids	2100	200		mg/L	1	2/25/2008
SM4500-NORG C: TKN						Analyst: **KS**
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	2/25/2008

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		

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-07*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW #4
Lab Order:	0711311	**Collection Date:**	11/19/2007 9:31:00 AM
Project:	Arroyo Dairy	**Date Received:**	11/20/2007
Lab ID:	0711311-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: KS
Chloride	130	1.0		mg/L	10	11/20/2007 7:11:17 PM
Nitrogen, Nitrate (As N)	22	1.0		mg/L	10	11/20/2007 7:11:17 PM
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	2000	400		mg/L	1	11/21/2007
SM4500-NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	11/29/2007

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		

DP-164

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Dec-08*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	MW-3
Lab Order:	0812019	**Collection Date:**	12/1/2008 11:51:00 AM
Project:	Arroyo Dairy	**Date Received:**	12/2/2008
Lab ID:	0812019-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	1000	5.0		mg/L	50	12/3/2008 1:59:22 AM
Nitrogen, Nitrate (As N)	75	1.0		mg/L	10	12/2/2008 7:18:58 PM
SM 2540C: TDS						Analyst: KMB
Total Dissolved Solids	5200	400		mg/L	1	12/3/2008
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	12/4/2008

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		

LAA

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Nov-06*

CLIENT:	Estes Sampling Service	**Client Sample ID:**	Lagoon
Lab Order:	0610269	**Collection Date:**	10/24/2006 3:25:00 PM
Project:	Arroyo Dairy	**Date Received:**	10/25/2006
Lab ID:	0610269-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TES
Chloride	810	2.0		mg/L	20	10/25/2006 7:31:03 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	10/25/2006 7:31:03 PM
EPA METHOD 160.1: TDS						Analyst: KS
Total Dissolved Solids	2800	100		mg/L	1	10/26/2006
EPA METHOD 351.3: TKN						Analyst: TES
Nitrogen, Kjeldahl, Total	180	10		mg/L	1	11/1/2006

N.B. lowest TKN

Qualifiers:

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

ATTN.: AMY MUNSON
P. O. BX 310
HAGERMAN, NM 88232
PHONE: (505) 752-0939

Receiving Date: 12/05/05
Reporting Date: 12/07/05
Project Number: DP-764
Project Name: ARROYO DAIRY
Project Location: ROSWELL, NM

Sampling Date: 12/04/05
Sample Type: WELL H_2O, WASTE H_2O
Sample Condition: COOL & INTACT
Sample Received By: MR
Analyzed By: RG, TE

~~Colloidal~~ ~~unlined~~ ~~runoff pond~~

DG OF NEW SYN. LAGOON, BUT IS IN THE LAA.

LAB NUMBER	SAMPLE ID	TDS (mg/L)	Chlorides (mg/L)	TKN (mg/L)	NO_3-NO_2-N (mg/L)
Date Analysis Batch Started:		12/05/05	12/06/05	12/07/05	12/06/05
Time Analysis Batch Started:		14:15	14:00	9:30	13:00
AJ9904-1	MW 1A	5,140	900	0.7	134.3
AJ9904-2	MW 3	4,900	950	0.8	117.2
AJ9904-3	MW 4	2,225	170	0.6	60.4
AJ9904-4	MW 5	5,420	1,000	0.5	86.0
AJ9904-5	MW 6	5,360	1,800	0.5	20.1
AJ9904-6	LAGOON	3,800	2,250	275	0.21
Date Analysis Batch Finished:		12/06/05	12/06/05	12/07/05	12/06/05
Time Analysis Batch Finished:		9:25	15:35	15:55	15:30
Blank		< 1	< 1	< 0.2	< 0.01
Quality Control		1026	52	5.29	0.3099
True Value QC		1000	50	5.00	0.3000
% Instrument Accuracy		103	104	106	103
% Extraction Accuracy		N/A	101	99	95
Relative Percent Difference		0	0	2	3

UPGRADIENT MW

EPA 600/4-79-020,	160.1	4500B-Cl	351.4	353.3

* Less than the Minimum Detection Limit.

Mario Rodriguez, Director.

Date