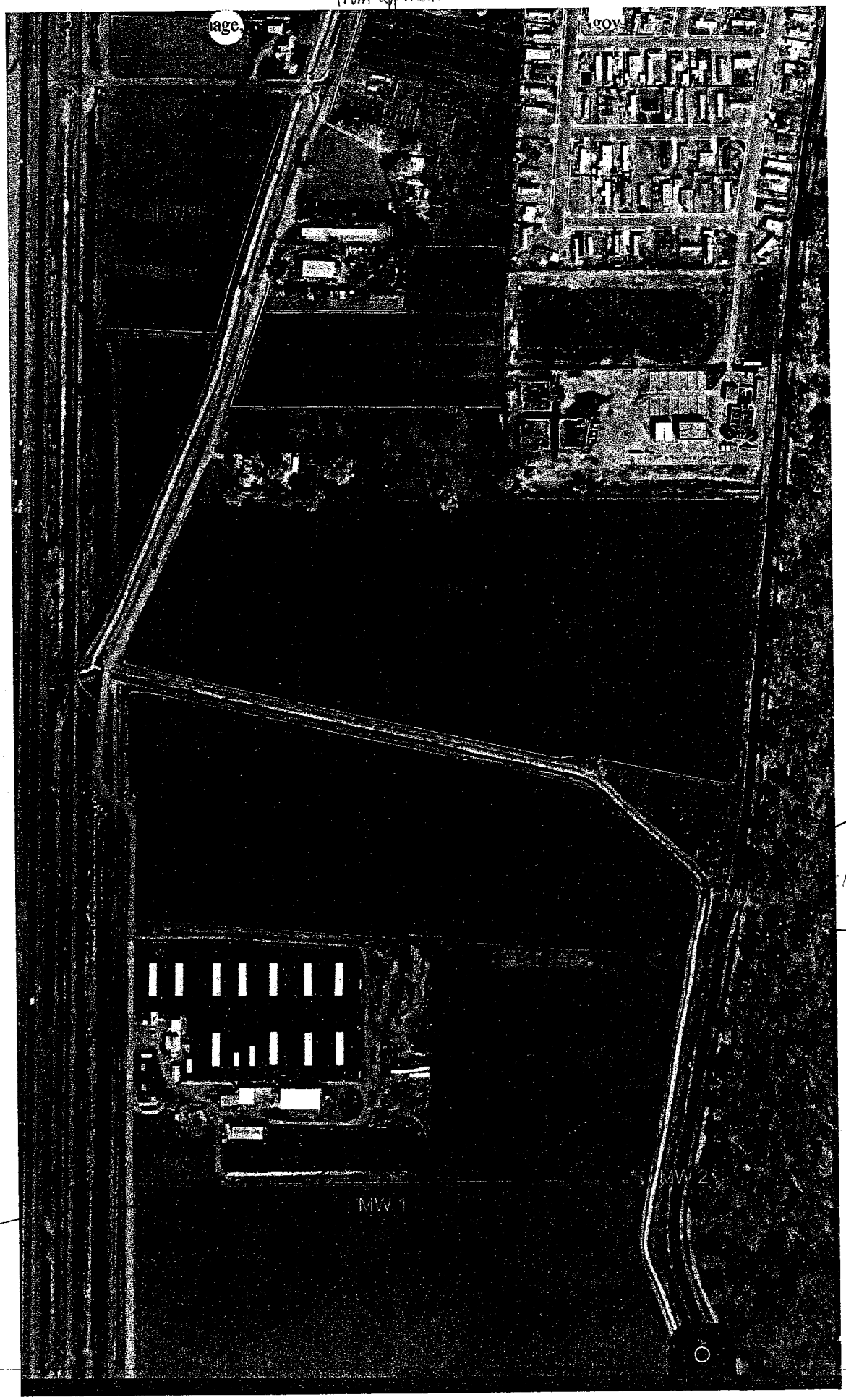
from application

DP-1176



MW #1

This is the most current facility map

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DP-1176
GROUND WATER
APR 19 2007
BUREAU

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

RAYMOND JARRATT
attn RAYMOND JARRATT
2104 LOS LENTES
LOS LUNAS NM 87031

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: RAYMOND JARRATT
Project: FEN RAY DAIRY
Order: 0703154 JAR04 Receipt: 03-06-07

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

Sample: *MW1* Collected: *03-06-07 13:10:00* By: *JJ*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0703154-0001A		**SM 4500-N & NH3B,C**						By: ECC		
W07187	WC.2007.588.11	7727-37-9	Kjeldahl Nitrogen, Total	0.8	mg/L	1	0.2		03-12-07	03-13-07
0703154-0001B		**EPA 160.1 Total Dissolved Solids**						By: MJN		
WTDS-07-023	WC.2007.565.10	10-33-3	Total Dissolved Solids	802	mg/L	1	10		03-09-07	03-12-07
0703154-0001B		**EPA 300.0 Anions by IC**						By: JJK		
W07175	WC.2007.550.25	16887-00-6	Chloride	92.0	mg/L	5	0.05		03-07-07	03-08-07
W07175	WC.2007.550.25	14797-65-0	Nitrate, as N	10.8	mg/L	5	0.05		03-07-07	03-08-07

Sample: *MW2* Collected: *03-06-07 13:34:00* By: *JJ*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0703154-0002A		**SM 4500-N & NH3B,C**						By: ECC		
W07187	WC.2007.588.12	7727-37-9	Kjeldahl Nitrogen, Total	1.7	mg/L	1	0.2		03-12-07	03-13-07
0703154-0002B		**EPA 160.1 Total Dissolved Solids**						By: MJN		
WTDS-07-023	WC.2007.565.11	10-33-3	Total Dissolved Solids	770	mg/L	1	10		03-09-07	03-12-07
0703154-0002B		**EPA 300.0 Anions by IC**						By: JJK		
W07175	WC.2007.550.27	16887-00-6	Chloride	30.0	mg/L	5	0.05		03-07-07	03-08-07
W07175	WC.2007.550.27	14797-65-0	Nitrate, as N	14.0	mg/L	5	0.05		03-07-07	03-08-07

Report Date: 3/15/2007 2:59:45 PM

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*

RAYMOND JARRATT
attn **RAYMOND JARRATT**
2104 LOS LENTES
LOS LUNAS **NM** **87031**

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

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

lient: **RAYMOND JARRATT**
roject: **FEN-RAY DAIRY**
rder: **0702601** **JAR04** Receipt: **02-22-07**

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

ample: ***MW1*** Collected: *02-21-07 11:13:00* By: *JJ*
latrix:

IC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
702601-0001A		**EPA 300.0 Anions by IC**					By:	JJK		
V07146	WC.2007.463.15	16887-00-6	Chloride	94.3	mg/L	5	0.05		02-23-07	02-23-07
V07146	WC.2007.463.15	14797-65-0	Nitrate, as N	12.1	mg/L	5	0.05		02-23-07	02-23-07
702601-0001A		**SM 4500-N & NH3B,C**					By:	ECC		
V07157	WC.2007.483.14	7727-37-9	Kjeldahl Nitrogen, Total	2.1	mg/L	1	0.2		02-28-07	03-01-07

ample: ***MW2*** Collected: *02-21-07 11:40:00* By: *JJ*
latrix:

IC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
702601-0002A		**SM 4500-N & NH3B,C**					By:	ECC		
V07157	WC.2007.483.15	7727-37-9	Kjeldahl Nitrogen, Total	2.0	mg/L	1	0.2		02-28-07	03-01-07
702601-0002B		**EPA 160.1 Total Dissolved Solids**					By:	MJN		
VTDS-07-018	WC.2007.479.10	10-33-3	Total Dissolved Solids	854	mg/L	1	10		02-28-07	03-01-07
702601-0002B		**EPA 300.0 Anions by IC**					By:	JJK		
V07146	WC.2007.463.7	16887-00-6	Chloride	36.2	mg/L	5	0.05		02-23-07	02-23-07
V07146	WC.2007.463.7	14797-65-0	Nitrate, as N	16.6	mg/L	5	0.05		02-23-07	02-23-07

Report Date: *3/6/2007 9:02:19 AM*

DR-1176

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

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

Client: **RAYMOND JARRATT**
Project: **FEN-RAY DAIRY**
Order: **0702601** **JAR04** Receipt: **02-22-07**

Sample: ***MW3*** Collected: *02-21-07 12:15:00* By: *JJ*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0702601-0003A		**SM 4500-N & NH3B,C**					By:	ECC		
W07157	WC.2007.483.16	7727-37-9	Kjeldahl Nitrogen, Total	0.4	mg/L	1	0.2		02-28-07	03-01-07
0702601-0003B		**EPA 160.1 Total Dissolved Solids**					By:	MJN		
WTDS-07-018	WC.2007.479.13	10-33-3	Total Dissolved Solids	340	mg/L	1	10		02-28-07	03-01-07
0702601-0003B		**EPA 300.0 Anions by IC**					By:	JJK		
W07146	WC.2007.463.9	16887-00-6	Chloride	19.5	mg/L	5	0.05		02-23-07	02-23-07
W07146	WC.2007.463.9	14797-65-0	Nitrate, as N	0.440	mg/L	5	0.05		02-23-07	02-23-07

Sample: ***PIT*** Collected: *02-21-07 12:27:00* By: *JJ*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0702601-0004A		**SM 4500-N & NH3B,C**					By:	ECC		
W07157	WC.2007.483.17	7727-37-9	Kjeldahl Nitrogen, Total	359	mg/L	250	0.2		02-28-07	03-01-07
0702601-0004B		**EPA 160.1 Total Dissolved Solids**					By:	MJN		
WTDS-07-018	WC.2007.479.4	10-33-3	Total Dissolved Solids	3100	mg/L	1	10		02-28-07	03-01-07
0702601-0004B		**EPA 300.0 Anions by IC**					By:	JJK		
W07146	WC.2007.463.10	16887-00-6	Chloride	258	mg/L	50	0.05		02-23-07	02-23-07
W07146	WC.2007.463.11	14797-65-0	Nitrate, as N	1.70	mg/L	5	0.05		02-23-07	02-23-07

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

Report Date: *3/6/2007 9:02:19 AM*

ASSAIGAI ANALYTICAL LABORATORIES, INC.
P.O. Box 90430 • Albuquerque, New Mexico 87199 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
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

RAYMOND JARRATT
attn: **JANET JARRATT**
2104 LOS LENTES
LOS LUNAS **NM 87031**

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

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

lient: **RAYMOND JARRATT**
roject: **FEN-RAY**
rder: **0608159** **JAR04** Receipt: **08-04-06**

William P. Blake, President of Assaigai Analytical Laboratories, Inc.

ample: ***MW1*** Collected: *08-04-06 10:25:00* By: *JJ*
latrix: ***W***

C Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
		EPA 160.1 Total Dissolved Solids					By:	MJN		
608159-0001A										
/TDS-06-086	WC.2006.1946.8	10-33-3	Total Dissolved Solids	778	mg/L	1	10		08-09-06	08-10-06
		EPA 300.0 Anions by IC					By:	JTK		
608159-0001A										
/06603	WC.2006.1928.15	16887-00-6	Chloride	74.2	mg/L	5	0.05		08-04-06	08-04-06
/06603	WC.2006.1928.15	14797-65-0	Nitrate, as N	4.05	mg/L	5	0.05		08-04-06	08-04-06
		SM 4500-N & NH3B,C					By:	ECC		
608159-0001B										
/06645	WC.2006.2031.11	7727-37-9	Kjeldahl Nitrogen, Total	1.8	mg/L	1	0.2		08-18-06	08-18-06

Sample: ***MW3*** Collected: *08-04-06 10:45:00* By: *JJ*
Matrix: ***W***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
		EPA 160.1 Total Dissolved Solids					By:	MJN		
608159-0002A										
/TDS-06-086	WC.2006.1946.9	10-33-3	Total Dissolved Solids	373	mg/L	1	10		08-09-06	08-10-06
		EPA 300.0 Anions by IC					By:	JTK		
608159-0002A										
/06603	WC.2006.1928.17	16887-00-6	Chloride	14.0	mg/L	5	0.05		08-04-06	08-04-06
/06603	WC.2006.1928.17	14797-65-0	Nitrate, as N	ND	mg/L	5	0.05		08-04-06	08-04-06
		SM 4500-N & NH3B,C					By:	ECC		
608159-0002B										
/06645	WC.2006.2031.13	7727-37-9	Kjeldahl Nitrogen, Total	0.2	mg/L	1	0.2		08-18-06	08-18-06

Report Date: 8/18/2006 2:40:04 PM

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DP-1176

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

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

Client: **RAYMOND JARRATT**

Project: **FEN-RAY**

Order: **0608159** **JAR04** Receipt: **08-04-06**

Sample: ***PIT*** Collected: *08-04-06 11:15:00* By: *JJ*

Matrix: ***W***

IC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
		EPA 160.1 Total Dissolved Solids					By:	MJN		
608159-0003A										
VTDS-06-086	WC.2006.1946.14	10-33-3	Total Dissolved Solids	1990	mg/L	1	10		08-09-06	08-10-06
		EPA 300.0 Anions by IC					By:	JTK		
608159-0003A										
V06603	WC.2006.1928.18	16887-00-6	Chloride	215	mg/L	50	0.05		08-04-06	08-04-06
V06603	WC.2006.1928.19	14797-65-0	Nitrate, as N	ND	mg/L	5	0.05		08-04-06	08-04-06
		SM 4500-N & NH3B,C					By:	ECC		
608159-0003B										
V06645	WC.2006.2031.14	7727-37-9	Kjeldahl Nitrogen, Total	235	mg/L	125	0.2		08-18-06	08-18-06
		EPA 11.2.2/200.8 Metals by ICP-MS					By:	DPA		
608159-0003C										
106800	MT.2006.1431.48	7782-49-2	Selenium	ND	mg/L	2	0.005		08-08-06	08-14-06

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Analytical results are not corrected for method blank or field blank contamination.

Report Date: 8/18/2006 2:40:04 PM

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*

RAYMOND JARRATT
attn: **RAYMOND JARRATT**
2104 LOS LENTES
LOS LUNAS NM 87031

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

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

lient: **RAYMOND JARRATT**
roject: **FEN-RAY DAIRY**
rder: **0604240 JAR04** Receipt: **04-11-06**

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

ample: ***MW 1*** Collected: *04-11-06 9:30:00* By: *JJ*
latrix: ***W***

IC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
604240-0001A		**SM 4500-N & NH3B,C**						By: ECC		
/06291	WC.2006.969.8	7727-37-9	Kjeldahl Nitrogen, Total	1.2	mg/L	1	0.2		04-17-06	04-18-06
604240-0001B		**EPA 160.1 Total Dissolved Solids**						By: MJN		
/TDS-06-040	WC.2006.952.15	10-33-3	Total Dissolved Solids	920	mg/L	1	10		04-13-06	04-17-06
604240-0001B		**EPA 300.0 Anions by IC**						By: JTK		
/06279	WC.2006.935.5	16887-00-6	Chloride	164	mg/L	10	0.05		04-12-06	04-12-06
/06279	WC.2006.935.5	14797-65-0	Nitrate, as N	ND	mg/L	10	0.05		04-12-06	04-12-06

ample: ***MW 3*** Collected: *04-11-06 10:00:00* By: *JJ*
latrix: ***W***

IC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
604240-0002A		**SM 4500-N & NH3B,C**						By: ECC		
/06291	WC.2006.969.9	7727-37-9	Kjeldahl Nitrogen, Total	0.5	mg/L	1	0.2		04-17-06	04-18-06
604240-0002B		**EPA 160.1 Total Dissolved Solids**						By: MJN		
/TDS-06-040	WC.2006.952.16	10-33-3	Total Dissolved Solids	509	mg/L	1	10		04-13-06	04-17-06
604240-0002B		**EPA 300.0 Anions by IC**						By: JTK		
/06279	WC.2006.935.6	16887-00-6	Chloride	26.1	mg/L	10	0.05		04-12-06	04-12-06
/06279	WC.2006.935.6	14797-65-0	Nitrate, as N	ND	mg/L	10	0.05		04-12-06	04-12-06

Report Date: 4/27/2006 2:18:07 PM

DP-1176

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

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

Client: **RAYMOND JARRATT**

Project: **FEN-RAY DAIRY**

Order: **0604240 JAR04** Receipt: **04-11-06**

Sample: ***PIT*** Collected: *04-11-06 10:10:00* By: *JJ*

Matrix: ***W***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0604240-0003A		**SM 4500-N & NH3B,C**						By: ECC		
W06291	WC.2006.969.10	7727-37-9	Kjeldahl Nitrogen, Total	344	mg/L	250	0.2		04-17-06	04-18-06
0604240-0003B		**EPA 160.1 Total Dissolved Solids**						By: MJN		
WTDS-06-040	WC.2006.952.6	10-33-3	Total Dissolved Solids	3330	mg/L	1	10		04-13-06	04-17-06
0604240-0003B		**EPA 300.0 Anions by IC**						By: JTK		
W06313	WC.2006.1034.8	16887-00-6	Chloride	277	mg/L	50	0.05		04-25-06	04-25-06
W06279	WC.2006.935.7	14797-65-0	Nitrate, as N	ND	mg/L	10	0.05		04-12-06	04-12-06

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

Report Date: 4/27/2006 2:18:07 PM

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ANALYTICAL
LABORATORIES, INC.
4301 Masthead NE, Ste. A • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

JAN 3 1 2006

BUREAU

RAYMOND JARRATT
attn: **RAYMOND JARRATT/JANET JARRATT**
2104 LOS LENTES
LOS LUNAS NM 87031

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*

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: **RAYMOND JARRATT**
Project: **FEN-RAY DAIRY**
Order: **0601017 JAR04** Receipt: **01-03-06**

for *William P. Blava: President of Assaigai Analytical Laboratories, Inc.*

Sample: ***MW1*** Collected: *01-03-06 11:18:00* By: *JJ*
Matrix: ***W***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0601017-0001A		**EPA 160.1 Total Dissolved Solids**					By:	MJN		
WTDS-06-001	WC.2006.33.11	10-33-3	Total Dissolved Solids	888	mg/L	1	10		01-04-06	01-05-06
0601017-0001A		**EPA 300.0 Anions by IC**					By:	JTK		
W06004	WC.2006.24.12	16887-00-6	Chloride	164	mg/L	50	0.05		01-03-06	01-04-06
W06004	WC.2006.24.13	14797-65-0	Nitrate, as N	0.335	mg/L	5	0.05		01-03-06	01-04-06
0601017-0001B		**SM 4500-N & NH3B,C**					By:	ECC		
W06007	WC.2006.21.17	7727-37-9	Kjeldahl Nitrogen, Total	0.9	mg/L	1	0.2		01-04-06	01-05-06

Sample: ***MW3*** Collected: *01-03-06 11:54:00* By: *JJ*
Matrix: ***W***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0601017-0002A		**EPA 160.1 Total Dissolved Solids**					By:	MJN		
WTDS-06-002	WC.2006.53.5	10-33-3	Total Dissolved Solids	2120	mg/L	1	10		01-06-06	01-09-06
0601017-0002A		**EPA 300.0 Anions by IC**					By:	JTK		
W06004	WC.2006.24.15	16887-00-6	Chloride	15.8	mg/L	5	0.05		01-03-06	01-04-06
W06004	WC.2006.24.15	14797-65-0	Nitrate, as N	0.270	mg/L	5	0.05		01-03-06	01-04-06
0601017-0002B		**SM 4500-N & NH3B,C**					By:	ECC		
W06007	WC.2006.21.18	7727-37-9	Kjeldahl Nitrogen, Total	0.2	mg/L	1	0.2		01-04-06	01-05-06

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Report Date: *1/9/2006 4:58:56 PM*

DP-1176
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: **RAYMOND JARRATT**

Project: **FEN-RAY DAIRY**

Order: **0601017** **JAR04** Receipt: **01-03-06**

Sample: ***PIT*** Collected: *01-03-06 12:00:00* By: *JJ*

Matrix: ***W***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0601017-0003A		**EPA 160.1 Total Dissolved Solids**					By:	MJN		
WTDS-06-002	WC.2006.53.6	10-33-3	Total Dissolved Solids	2560	mg/L	1	10		01-06-06	01-09-06
0601017-0003A		**EPA 300.0 Anions by IC**					By:	JTK		
W06004	WC 2006.24.16	16887-00-6	Chloride	216	mg/L	50	0.05		01-03-06	01-04-06
W06004	WC.2006.24.17	14797-65-0	Nitrate, as N	0.635	mg/L	5	0.05		01-03-06	01-04-06
0601017-0003B		**SM 4500-N & NH3B,C**					By:	ECC		
W06007	WC 2006 21.19	7727-37-9	Kjeldahl Nitrogen, Total	222	mg/L	100	0.2		01-04-06	01-05-06

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

Report Date: *1/9/2006 4:58:56 PM*

DP-1176

AUG 18 2005

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

RAYMOND JARRATT
attn: RAYMOND JARRATT
2104 LOS LENTES
LOS LUNAS NM 87031

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: **RAYMOND JARRATT**
Project: **FEN-RAY DAIRY**
Order: **0507260 JAR04** Receipt: **07-12-05**

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

Sample: ***MW2*** Collected: *07-12-05 10:26:00* By: *RJ*
Matrix: ***W***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0507260-01A		**SM 4500-N & NH3B,C**					By:	JPH		
W05571	WC.2005.2062.22	7727-37-9	Kjeldahl Nitrogen, Total	8.6	mg/L	5	0.2		07-28-05	07-29-05
0507260-01B		**EPA 160.1 Total Dissolved Solids**					By:	MJN		
WTDS-05-079	WC.2005.2017.4	10-33-3	Total Dissolved Solids	762	mg/L	1	10		07-18-05	07-19-05
0507260-01B		**EPA 300.0 Anions by IC**					By:	JTK		
W05539	WC.2005.1994.2	16887-00-6	Chloride	26.4	mg/L	10	0.05		07-18-05	07-19-05
W05539	WC.2005.1956.21	14797-65-0	Nitrate, as N	1.71	mg/L	10	0.05	H	07-18-05	07-19-05

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Analytical results are not corrected for method blank or field blank contamination.

ASSAIGAI ANALYTICAL LABORATORIES, INC.
4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
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

RAYMOND JARRATT
attn: JANET JARRATT
2104 LOS LENTES
LOS LUNAS NM 87031

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: RAYMOND JARRATT
Project: DP-1176
Order: 0403513 JAR04 Receipt: 03-24-04

William P. Davis, President of Assaigai Analytical Laboratories, Inc.

Sample: *MONITOR WELL 1* Collected: *03-23-04 10:15:00* By: *NMED(MERCER)*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0403513-01A		EPA 160.1 Total Dissolved Solids					By:	BAS		
WTDS-04-022	WC.2004.837.23		Total Dissolved Solids	812	mg / L	1	10		03-30-04	04-01-04
0403513-01A		EPA 300.0 Anions by IC					By:	DAW		
W04174	WC.2004.799.28	16887-00-6	Chloride	84.7	mg / L	10	0.05		03-24-04	03-24-04
W04174	WC.2004.799.28	14797-65-0	Nitrate, as N	2.24	mg / L	10	0.05		03-24-04	03-24-04
W04174	WC.2004.799.28	14797-55-8	Nitrite, as N	ND	mg / L	10	0.05		03-24-04	03-24-04
0403513-01B		SM 4500-N & NH3B,C					By:	TRS		
W04195	WC.2004.824.10		Kjeldahl Nitrogen, Total	2.6	mg / L	1	0.2		03-31-04	04-01-04

Sample: *MONITOR WELL 2* Collected: *03-23-04 11:50:00* By: *NMED(MERCER)*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0403513-02A		EPA 160.1 Total Dissolved Solids					By:	BAS		
WTDS-04-022	WC.2004.837.24		Total Dissolved Solids	880	mg / L	1	10		03-30-04	04-01-04
0403513-02A		EPA 300.0 Anions by IC					By:	DAW		
W04174	WC.2004.799.30	16887-00-6	Chloride	77.7	mg / L	10	0.05		03-24-04	03-24-04
W04174	WC.2004.799.30	14797-65-0	Nitrate, as N	3.81	mg / L	10	0.05		03-24-04	03-24-04
W04174	WC.2004.799.30	14797-55-8	Nitrite, as N	ND	mg / L	10	0.05		03-24-04	03-24-04
0403513-02B		SM 4500-N & NH3B,C					By:	TRS		
W04195	WC.2004.824.11		Kjeldahl Nitrogen, Total	4.2	mg / L	5	0.2		03-31-04	04-01-04

REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL.
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Lowest TKN concentration in wastewater

DR-1176

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: **RAYMOND JARRATT**

Project: **FEN-RAY DAIRY**

Order: **0601017** **JAR04** Receipt: **01-03-06**

Sample: ***PIT*** Collected: *01-03-06 12:00:00* By: *JJ*

Matrix: ***W***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0601017-0003A		**EPA 160.1 Total Dissolved Solids**					By:	MJN		
WTDS-06-002	WC.2006.53.6	10-33-3	Total Dissolved Solids	2560	mg/L	1	10		01-06-06	01-09-06
0601017-0003A		**EPA 300.0 Anions by IC**					By:	JTK		
W06004	WC 2006.24.16	16887-00-6	Chloride	216	mg/L	50	0.05		01-03-06	01-04-06
W06004	WC.2006.24.17	14797-65-0	Nitrate, as N	0.635	mg/L	5	0.05		01-03-06	01-04-06
0601017-0003B		**SM 4500-N & NH3B,C**					By:	ECC		
W06007	WC 2006 21.19	7727-37-9	Kjeldahl Nitrogen, Total	222	mg/L	100	0.2		01-04-06	01-05-06

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

Highest TKN concentration in wastewater

DP-1176

State of New Mexico

SCIENTIFIC LABORATORY DIVISION

Department of Health

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
(505) 841-2500

WATER CHEMISTRY SECTION (505) 841-2555

Sample Collection Date: 3/23/2004 **Time:** 9:50 **By:** MERCER

Sampling Location: PIT

Sample Type: wn

APR 14 2004

SLD No.: WC-200400891

Request ID No.:	2355411
Received at SLD:	3/24/2004
User:	55410
Subm:	541
WSS #:	0

This Copy of Report for:

NMED - Ground Water Pollution Prevention Section

P.O. Box 26110
Santa Fe, NM 87502

Distribution to:

NMED Ground Water Section {U}
NMED - Ground Water Pollution Prevention Secti

Water Chemistry Section - File Copy

ANALYTICAL RESULTS

Analyte	Result	Units	Analysis Date	EPA Method No.	Minimum Level	Dilution Factor	Sample Det. Limit	Analyst	Data Qualifier
Nitrate + Nitrite	0.23	mG/L	4/1/2004	353.2	0.1	1	0.1	Vince Speshock	
TKN	545	mG/L	3/31/2004	351.2	0.1	250	25	Jeff Robb	

Laboratory Comments:

Reviewed by Chris Dean
Supervisor, Water Chemistry Section

Date Printed: 09-Apr-04

Data Qualifier Codes and Definitions

A - See comments section below
D - Spike recovery <80% or >120%
F - Matrix interference suspected
G - Inconsistent results, suggest re-sampling
H - Sample analyzed in duplicate
J - Estimated quantity only, analyte was detected at a level below which an accurate Quantitation can be given
K - Holding time exceeded at laboratory
L - Result for this analyte equals or exceeds EPA MCL
M - Result for this analyte equals or exceeds EPA action level
N - Insufficient sample to verify results
P - Sample rejected/ voided at laboratory
Q - Sample submitted to laboratory past holding time
V - External control value <80% or >120% of theoretical value
W - Ion balance criteria exceeded
X - Daily control value <80% or >120% of theoretical value

State of New Mexico

SCIENTIFIC LABORATORY DIVISION

Department of Health

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
(505) 841-2500

WATER CHEMISTRY SECTION (505) 841-2555

Sample Collection Date: 3/23/2004 **Time:** 9:50 **By:** MERCER
Sampling Location: PIT
Sample Type: wn

SLD No.: WC-200400895

Request ID No.:	2355412
Received at SLD:	3/24/2004
User:	55410
Subm:	541
WSS #:	0

APR 1 4 2004

This Copy of Report for:

NMED - Ground Water Pollution Prevention Section

P.O. Box 26110
Santa Fe, NM 87502

Distribution to:
NMED Ground Water Section {U}
NMED - Ground Water Pollution Prevention Secti

Water Chemistry Section - File Copy

ANALYTICAL RESULTS

Analyte	Result	Units	Analysis Date	EPA Method No.	Minimum Level	Dilution Factor	Sample Det. Limit	Analyst	Data Qualifier
Chloride	328	mG/L	3/30/2004	300.0	10	5	10	Vince Speshock	
TDS	4660	mG/L	3/29/2004	160.1	10	1	10	Chris Paul	

Laboratory Comments:

Reviewed by Chris Dean
Supervisor, Water Chemistry Section

Date Printed: 09-Apr-04

Data Qualifier Codes and Definitions

A - See comments section below
D - Spike recovery <80% or >120%
F - Matrix interference suspected
G - Inconsistent results, suggest re-sampling
H - Sample analyzed in duplicate
J - Estimated quantity only, analyte was detected at a level below which an accurate Quantitation can be given
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L - Result for this analyte equals or exceeds EPA MCL
M - Result for this analyte equals or exceeds EPA action level
N - Insufficient sample to verify results
P - Sample rejected/ voided at laboratory
Q - Sample submitted to laboratory past holding time
V - External control value <80% or >120% of theoretical value
W - Ion balance criteria exceeded
X - Daily control value <80% or >120% of theoretical value

Highest NO_3-N concentration in ground water

DP-1176

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

RAYMOND JARRATT
attn RAYMOND JARRATT
2104 LOS LENTES
LOS LUNAS NM 87031

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: RAYMOND JARRATT
Project: FEN-RAY DAIRY
Order: 0702601 JAR04 Receipt: 02-22-07

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

Sample: *MW1* Collected: *02-21-07 11:13:00* By: *JJ*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0702601-0001A		**EPA 300.0 Anions by IC**						By: JJK		
W07146	WC.2007.463.15	16887-00-6	Chloride	94.3	mg/L	5	0.05		02-23-07	02-23-07
W07146	WC.2007.463.15	14797-65-0	Nitrate, as N	12.1	mg/L	5	0.05		02-23-07	02-23-07
0702601-0001A		**SM 4500-N & NH3B,C**						By: ECC		
W07157	WC.2007.483.14	7727-37-9	Kjeldahl Nitrogen, Total	2.1	mg/L	1	0.2		02-28-07	03-01-07

Sample: *MW2* Collected: *02-21-07 11:40:00* By: *JJ*
Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0702601-0002A		**SM 4500-N & NH3B,C**						By: ECC		
W07157	WC.2007.483.15	7727-37-9	Kjeldahl Nitrogen, Total	2.0	mg/L	1	0.2		02-28-07	03-01-07
0702601-0002B		**EPA 160.1 Total Dissolved Solids**						By: MJN		
WTDS-07-018	WC.2007.479.10	10-33-3	Total Dissolved Solids	854	mg/L	1	10		02-28-07	03-01-07
0702601-0002B		**EPA 300.0 Anions by IC**						By: JJK		
W07146	WC.2007.463.7	16887-00-6	Chloride	36.2	mg/L	5	0.05		02-23-07	02-23-07
W07146	WC.2007.463.7	14797-65-0	Nitrate, as N	16.6	mg/L	5	0.05		02-23-07	02-23-07

Report Date: *3/6/2007 9:02:19 AM*

This MW may have been installed in 2007. If so, location unknown

Jarratt Dairy

DP-1176

Constituents	G.W. Standards	Units	Date 3/23/04 Self NMED xx	Date 3/24/04 Self xx NMED	Date Self NMED	Date 3/24/05 Self xx NMED	Date 7/13/05 Self xx NMED	Date 1/3/06 Self xx NMED	Date 4/11/06 Self xx NMED	Date 8/4/06 Self xx NMED	Date Self NMED	Date 2/21/07 Self xx NMED	Date 3/6/07 Self xx NMED
(Wastewater)													
Nitrate as Nitrogen (NO_3-N)		mg/L	0.23	<0.05		0.95		0.635	<0.05	<0.05		1.7	
Total Kjeldahl Nitrogen (TKN)		mg/L	545	405		393		222	344	235		359	
Total Nitrogen		mg/L	545.2	405		394		222.6	344	235		361	
Total Dissolved Solids		mg/L	4660	2170		3030		2560	3330	1990		3100	
Chloride		mg/L	328	291		236		216	277	215		258	
(MW-1)													
Nitrate as Nitrogen (NO_3-N)	10	mg/L	2.7	2.24		0.05	<0.05	0.335	<0.05	4.05		**12.1**	**10.8**
Total Kjeldahl Nitrogen (TKN)		mg/L	1.63	2.6		0.2	1.4	0.9	1.2	1.8	new	2.1	0.8
Total Dissolved Solids	1000	mg/L	852	812		850	730	888	920	778		NR	802
Chloride	250	mg/L	82.2	84.7		110	74.9	164	164	74.2		94.3	92
Depth to Ground Water		feet											
(MW-2)													
Nitrate as Nitrogen (NO_3-N)	10	mg/L	3.7	3.81		NR	1.71	NR	NR	NR		**16.6**	**14**
Total Kjeldahl Nitrogen (TKN)		mg/L	1.77	4.2		dry	8.6	dry	dry	dry	monitoring	2	1.7
Total Dissolved Solids	1000	mg/L	900	880			762					854	770
Chloride	250	mg/L	65.7	77.7			26.4					36.2	30
Depth to Ground Water		feet											
(MW-3)													
Nitrate as Nitrogen (NO_3-N)	10	mg/L	<0.1	1.75		<0.05	1.78	0.27	<0.05	<0.05		0.44	
Total Kjeldahl Nitrogen (TKN)		mg/L	0.162	0.4		<0.05	1.9	0.2	0.5	0.2	wells?	0.4	
Total Dissolved Solids	1000	mg/L	668	624		526	865	2120	509	373		340	
Chloride	250	mg/L	35.7	37.7		25.8	32	15.8	26.1	14		19.5	
Depth to Ground Water		feet											
Flow	2,500	gpd		March	Aug-Nov	3,960	725	1,744	570	2,878		Jan-Feb	
				3,361	2,665	4,035	1,714	Feb-Mar	1,213	1,903		2,306	
				April	Dec	3,511	Sep-Oct	1,183	1,803	Oct-Nov			
				3,552	6,803	3,160	1,864		1,393	1,354			
				May-June		2,484	1,691			1,900			
				3,620		1,731	1,993						
				July									
				3,567									
				Soil		LADS	LADS	LADS	LADS	LADS			
				Sampling		Yes	Yes	Yes	Yes	Yes			
				2/6/04				Soil					
				4/7/04				Sampled					