4.14.09

DP-126

Bill

Archana, Inc

Environmental and Geotechnical Engineering Consultants

ENTERED

GROUND WATER

APR 0 9 2009

BUREAU

March 31, 2009

PROJECT NO: 030509020

Ms. Karen Menetrey
Discharge Plan Reviewer
NMED-HAROLD RUNNELS BLDG.
1190 St. Francis Drive
P. O. Box 26110
Santa Fe, New Mexico 87502

Dear Ms. Menetrey,

Please find the enclosed laboratory report on the water samples, which were received from Big Sky Dairy, Mesquite, New Mexico, on March 5, 2009. If you have any questions, please give me a call at (915) 599-2183.

Pratap G. Reddy, Ph.D., P.E
ArchanaUSA, Inc

Copy to:
Del Norte Dairy, Inc
[illegible]
Mesquite, New Mexico 88048
ATTN: Mr. Ed De Ruyter

1155 Larry Mahan Drive, Suite B, El Paso, Texas 79925
Tel: (915) 599-2183, Fax: (915) 592-4659 www.archanaUSA.com e-mail preddy@archanausa.com

DP-126

Archana, Inc

Environmental and Geotechnical Engineering Consultants

Client Information:

Del Norte Dairy, Inc
P. O. Box 167
Mesquite, New Mexico 88048
ATTN: Mr. Ed De Ruyter

Laboratory Project No: 030509020
Sample Collection Date: 03-05-09
Report Date: 03-31-09

Report of Monitoring of Wells, Lagoons, and Analytical Record

Laboratory ID	Sample Date	Well Number/ Lagoon	Well dia. (In.)	Depth to water (Ft.)	Total depth (Ft.)	Nitrate (as N) (mg/l)	TKN (as N) (mg/l)	Chloride (mg/l)	TDS (mg/l)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	ND	[illegible]	[illegible]
030509020-2	03-05-09	126-07	2	28.20	30.35	16.8	ND	605	2230
030509020-3	03-05-09	Lagoon	N/A	N/A	N/A	3.58	159.6	1312	5650
030509020-4	03-05-09	126-04	4	27.05	38.82	14.1	ND	525	2122
030509020-5	03-05-09	126-05	2	20.46	31.10	19.9	1.03	610	2828
030509020-6	03-05-09	126-12	4	17.20	31.80	11	ND	475	2320

ND-Not Detected
NA: Not Applicable

Additional Information:

Parameter:	Method Ref:	Date Analyzed:	Analyst:
Nitrate (as N)	E353.2	03-09-09	Alamo Laboratories
Total Kjeldahl Nitrogen (as N)	EPA 351.3	03-24-09	Maria Petrikat
Chloride	EPA 325.2	03-16-09	Maria Petrikat
Total dissolved Solids	EPA 160.1	03-09-09	Maria Petrikat

DP-126

Lowest Wastewater TKN Reported for Most Recent Permit Term

Pratap G. Reddy, Ph.D., P.E
ArchanaUSA, Inc

1155 Larry Mahan Drive, Suite B, El Paso, Texas 79925
Tel: (915) 599-2183, Fax: (915) 592-4659 www.archanaUSA.com e-mail preddy@archanausa.com

DP-126

02-126

Servi-Tech Laboratories

6921 S. Bell • Amarillo, TX 79109
www.servitechlabs.com

Phone: 806.677.0093 • 800.557.7509 • **Fax:** 806.677.0329

Lab #: A-2008NL**000536**

LABORATORY REPORT

Report Date: 01/23/2008 02:53 pm

Send To: ENVIRO COMPLIANCE SERVICES INC
27367 CHET WYANT
564 SR 523
CLOVIS, NM 88101-1023

Steve Harrold
Laboratory Manager

Project ID: DAYBREAK DAIRY
Project Title: DP-126
Sample ID: PWRS
Client Name: DAYBREAK DAIRY
Subject: Wastewater Lab Analysis

Date/Time Received: 01/15/2008 09:00 am
Name of Submitter: MICHAEL DOLAN
Date/Time Sampled: 01/10/2008 10:00 am
Name of Sampler: MICHAEL DOLAN

Location:
Invoice No: 400759
P.O. #:
Depth:
Flow Rate:

Analysis	Result	Unit	RL	Method	Analysis Date/Time	Tech
Nitrate+Nitrite Nitrogen, NO3+NO2-N	ND	mg/L	0.10	EPA 353.2	1/16/2008 3:22PM	LF
Total Kjeldahl Nitrogen, TKN	470	mg/L	27	EPA 351.3	1/17/2008	RR
Chloride, Cl	1100	mg/L	100	EPA 325.2	1/16/2008 3:40PM	LF
Total Dissolved Solids, TDS	5620	mg/L	100	SM 2540 C (20th Ed.)	1/18/2008	KC

RL = Reporting Limit | ND = Not Detected at RL

DP-126

Archana Laboratories

ADDRESS: GORZEMAN DAIRY NO.2
P.O.Box 328
Mesquite, NM 88048

COUNTY: Dona Ana

CUSTOMER: Mr. Juan De La Torre

LABORATORY PROJECT NO: 090195004
LABORATORY SAMPLE ID: 090195004-13

REPORT DATE: 09-25-95

WATER SUPPLY SYSTEM CODE NO: DP-126
SAMPLE TAKEN FROM: Lagoon
SAMPLE DATE: 09-01-95
TYPE OF SAMPLE: Water

LABORATORY RESULTS

PARAMETER:	UNIT:	RESULT:	METHOD:	DATE ANALYZED:
Nitrate (as N)	(mg/l)	3.0	EPA 353.3	09-01-95
Ammonia (as N)	(mg/l)	168	EPA 350.2	09-09-95
Total Kjeldahl Nitrogen (TKN)	(mg/l)	86.8	EPA 351.3	09-03-95

Pratap G. Reddy
President
Archana Laboratories

1155 Larry Mahan Drive, Suite B, El Paso, Texas 79925 (915) 599-2183 Fax (915) 599-8849

DP-126

Entered

NEW MEXICO STATE UNIVERSITY
SOIL & WATER TESTING LAB.
BOX 3Q NMSU
LAS CRUCES, NEW MEXICO 88003

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

F1784(02/84)

Date received	Lab No.	user code No.
5-25-90	1738	

TYPE or PRINT with Ball Point Pen

CHEMICAL ANALYSES: *Check individual items for analysis* [*Mark appropriate box(es)*]

INTERIM PRIMARY PARAMETER GROUP ☐ 1 ☐ 2 ☐ 3

TYPE of CHEMICAL ANALYSIS ☐ Complete Secondary

Water Supply System Name	Water Supply System Code No.	City or Location	County	Check one:
Gorzeman Dairy #2		Mesquite	Dona Ana	☑ TREATED WATER ☐ RAW WATER

Collection Date	Collection Time	Collection Point	Collector's remarks	Report to
5-25-90	11:15AM	GCM 7	DP#126	Gorzeman Dairy
Collected By	Owner			Address: PO Box 328 Mesquite, NM 88048

TYPE of SYSTEM *(Check one)* ☐ PRIVATE PUBLIC: ☐ Community ☐ Non-community

SOURCE: ☐ Spring ☐ Lake ☐ Well-Depth ☐ Drain ☐ Stream ☐ Pool ☐ Other *(specify)*

LAT. ° ' "
LONG ° ' "

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL	mg/l	HEAVY METALS	mg/l	PARAMETER	mg/L	PARAMETER	mg/l
Sodium (as Na)		X Chloride (as Cl)	7161	X Total Filterable Residue	2535	Arsenic		X TKN	4.9		
Potassium (as K)		Fluoride (as F)		Foaming Agents (as Las)		Barium					
Tot.Hardness (as CaCO3)		X Nitrate (as N)	730	Conductance Micromhos 25°C		Cadmium					
Calcium (as Ca)		Alkalinity (as $CaCO_3$)		pH		Chromium					
Magnesium (as Mg)		Bicarbonate (as HCO_3)		Odor		Lead					
Iron-Total (as Fe)		Carbonate (as CO_3)		Color	mg/l	Mercury					
Manganese (as Mn)		Sulfate (as SO_4)		Turbidity		Selenium					
						Silver					

RECEIVED JUN 1 - 1990 GROUND WATER BUREAU

LABORATORY REMARKS:

Reviewed by: Andrew LeBrett

Date reported: 6-7-90

DISTRIBUTION: White - Water Supply Regulation, SF • Canary • WS System • Pink - EIA Regional Office • Goldenrod Lab

0284PDC200

DP-126

Advanced Analysis, Inc.

5601 19th Street Lubbock, Texas 79407 P.O. Box 16652 Lubbock,Texas 79490
Tel: (806) 796-2805 Fax : (806) 796-2825

ANALYTICAL RESULTS FOR
ENVIROCOMPLIANCE SERVICES, INC.
ATTN: CHET WYANT
564 SR 523
CLOVIS, NM 88101-1023
PHONE: (505) 762-9674
FAX: (505) 762-3749

Receiving Date: 09/14/07
Reporting Date: 09/26/07
Project Number: DP-126
Project Name: DAYBREAK DAIRY
Project Location: MESQUITE, NM

Sampling Date: 09/14/07
Sample Type: WELL H_2O, WASTE H_2O
Sample Condition: COOL & INTACT
Sample Received By: MR
Analyzed By: RG, SN

LAB NUMBER	SAMPLE ID	TDS (mg/L)	Chlorides (mg/L)	TKN (mg/L)	NO_3-NO_2-N (mg/L)
Date Analysis Batch Started:		09/19/07	09/20/07	09/24/07	09/20/07
Time Analysis Batch Started:		11:00	13:15	8:50	11:30
AL12216-1	MW 4	2,960	650	0.5	27.3
AL12216-2 (126-5)	MW 5	2,025	510	0.6	70.1
AL12216-3	MW 7	2,620	740	0.7	27.0
AL12216-4	MW 12	2,170	420	0.8	14.4
AL12216-5	PWRS	3,800	1,150	195	0.24
Date Analysis Batch Finished:		09/20/07	09/20/07	09/25/07	09/20/07
Time Analysis Batch Finished:		10:40	16:00	15:15	17:00
Blank		< 1	< 1	< 0.2	< 0.01
Quality Control		988	50	4.70	0.2858
True Value QC		1000	50	5.00	0.3000
% Instrument Accuracy		99	100	94	95
% Extraction Accuracy		N/A	100	97	93
Relative Percent Difference		1	2	2	3

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

*Less than the Minimum Detection Limit.

Mario Rodriguez, Director.

09-26-07
Date

DP-126

Archana, Inc

Environmental and Geotechnical Engineering Consultants

Client Information:

Del Norte Dairy, Inc
P. O. Box 167
Mesquite, New Mexico 88048
ATTN: Mr. Ed De Ruyter

Laboratory Project No: 120808021
Sample Collection Date: 12-08-08
Report Date: 12-24-08

Report of Monitoring of Wells, Lagoons, and Analytical Record

Laboratory ID	Sample Date	Well Number/ Lagoon	Well dia. (In.)	Depth to water (Ft.)	Total depth (Ft.)	Nitrate (as N) (mg/l)	TKN (as N) (mg/l)	Chloride (mg/l)	TDS (mg/l)
120808021-1	12-08-08	126-04	4	27.05	38.82	22	ND	467	1948
120808021-2	12-08-08	126-05	2	20.46	31.10	38	ND	630	2818
120808021-3	12-08-08	126-07	2	28.20	30.35	27	ND	730	2396
120808021-4	12-08-08	126-12	4	17.20	31.80	13	ND	450	2370
120808021-5	12-08-08	126-13	2	35.20	59.60	26	ND	740	2572
120808021-6	12-08-08	Lagoon	N/A	N/A	N/A	ND	190	1649	7300

ND-Not Detected
NA: Not Applicable

Additional Information:

Parameter:	**Method Ref:**	**Date Analyzed:**	**Analyst:**
Nitrate (as N)	E353.2	12-18-08	Energy Laboratories
Total Kjeldahl Nitrogen (as N)	EPA 351.3	12-23-08	Maria Petrikat
Chloride	EPA 325.2	12-09-08	Maria Petrikat
Total dissolved Solids	EPA 160.1	12-09-08	Derrick Mott

Pratap G. Reddy, Ph.D., P.E
ArchanaUSA, Inc

1155 Larry Mahan Drive, Suite B, El Paso, Texas 79925
Tel: (915) 599-2183, Fax: (915) 592-4659 www.archanaUSA.com e-mail preddy@archanausa.com

DP-126

DP-126

Archana, Inc

Environmental and Geotechnical Engineering Consultants

Client Information:

Del Norte Dairy, Inc
P. O. Box 167
Mesquite, New Mexico 88048
ATTN: Mr. Ed De Ruyter
Laboratory Project No: 030509020
Sample Collection Date: 03-05-09
Report Date: 03-31-09

Report of Monitoring of Wells, Lagoons, and Analytical Record

Laboratory ID	Sample Date	Well Number/ Lagoon	Well dia. (In.)	Depth to water (Ft.)	Total depth (Ft.)	Nitrate (as N) (mg/l)	TKN (as N) (mg/l)	Chloride (mg/l)	TDS (mg/l)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	ND	[illegible]	[illegible]
030509020-2	03-05-09	126-07	2	28.20	30.35	16.8	ND	605	2230
030509020-3	03-05-09	Lagoon	N/A	N/A	N/A	3.58	159.6	1312	5650
030509020-4	03-05-09	126-04	4	27.05	38.82	14.1	ND	525	2122
030509020-5	03-05-09	126-05	2	20.46	31.10	19.9	1.03	610	2828
030509020-6	03-05-09	126-12	4	17.20	31.80	11	ND	475	2320

ND-Not Detected
NA: Not Applicable

Additional Information:

Parameter:	**Method Ref:**	**Date Analyzed:**	**Analyst:**
Nitrate (as N)	E353.2	03-09-09	Alamo Laboratories
Total Kjeldahl Nitrogen (as N)	EPA 351.3	03-24-09	Maria Petrikat
Chloride	EPA 325.2	03-16-09	Maria Petrikat
Total dissolved Solids	EPA 160.1	03-09-09	Maria Petrikat

Pratap G. Reddy, Ph.D., P.E
ArchanaUSA, Inc

1155 Larry Mahan Drive, Suite B, El Paso, Texas 79925
Tel: (915) 599-2183, Fax: (915) 592-4659 www.archanaUSA.com e-mail preddy@archanausa.com

DP-126

Archana, Inc
Environmental and Geotechnical Engineering Consultants

GROUND WATER

JUL 2 2 2009

BUREAU

Client Information:
Del Norte Dairy, Inc
P. O. Box 167
Mesquite, New Mexico 88048
ATTN: Mr. Ed De Ruyter
Laboratory Project No: 060409018
Sample Collection Date: 06-04-09
Report Date: 07-08-09

Report of Monitoring of Wells, Lagoons, and Analytical Record

Laboratory ID	Sample Date	Well Number/ Lagoon	Well dia. (In.)	Depth to water (Ft.)	Total depth (Ft.)	Nitrate (as N) (mg/l)	TKN (as N) (mg/l)	Chloride (mg/l)	TDS (mg/l)
060409018-1	06-04-09	126-04	4	27.00	38.82	5.81	ND	550	2084
060409018-2	06-04-09	126-05	2	20.50	31.10	10.1	ND	600	2640
060409018-3	06-04-09	126-07	2	28.22	30.35	19.0	ND	810	2468
060409018-4	06-04-09	126-12	4	17.20	31.80	4.08	0.84	530	2322
060409018-5	06-04-09	126-13	2	32.20	59.60	16.3	ND	970	2768
060409018-6	06-04-09	Lagoon	N/A	N/A	N/A	50.6	308	680	5620

ND-Not Detected
NA: Not Applicable

Additional Information:

Parameter:	**Method Ref:**	**Date Analyzed:**	**Analyst:**
Nitrate (as N)	SW 9056	06-08-09	Alamo Laboratories
Total Kjeldahl Nitrogen (as N)	SM 4500-N org B	06-22-09	Joseph Limon
Chloride	SM 4500-Cl-B	06-08-09	Joseph Limon
Total dissolved Solids	SM 2540 C	06-05-09	Joseph Limon

Pratap G. Reddy, Ph.D., P.E
ArchanaUSA, Inc

1155 Larry Mahan Drive, Suite B, El Paso, Texas 79925
Tel: (915) 599-2183, Fax: (915) 592-4659 www.archanaUSA.com e-mail preddy@archanausa.com

DP-126

Archana, Inc
Environmental and Geotechnical Engineering Consultants

GROUND WATER

NOV 09 2009

BUREAU

Client Information:
Del Norte Dairy, Inc
P. O. Box 167
Mesquite, New Mexico 88048
ATTN: Mr. Ed De Ruyter
Laboratory Project No: 090209008
Sample Collection Date: 09-02-09
Report Date: 10-29-09

Report of Monitoring of Wells, Lagoons, and Analytical Record

Laboratory ID	Sample Date	Well Number/ Lagoon	Well dia. (In.)	Depth to water (Ft.)	Total depth (Ft.)	Nitrate (as N) (mg/l)	TKN (as N) (mg/l)	Chloride (mg/l)	TDS (mg/l)
090209008-1	09/02/09	126-04	4	26.96	38.82	9	ND	530	2028
090209008-2	09/02/09	126-05	2	20.46	31.10	12.8	1.4	580	2566
090209008-3	09/02/09	126-07	2	28.22	30.35	10.9	ND	820	2716
090209008-4	09/02/09	126-12	4	17.16	31.80	12.8	0.56	530	2336
090209008-5	09/02/09	126-13	2	32.16	59.60	12.8	ND	840	2746
090209008-6	09/02/09	Lagoon	N/A	N/A	N/A	94	162.4	540	5100

ND-Not Detected
NA: Not Applicable

Additional Information:

Parameter:	**Method Ref:**	**Date Analyzed:**	**Analyst:**
Nitrate (as N)	SW 9056	09-03-09	Joseph Limon
Total Kjeldahl Nitrogen (as N)	SM 4500-N org B	09-14-09	Joseph Limon
Chloride	SM 4500-Cl-B	09-21-09	Joseph Limon
Total dissolved Solids	SM 2540 C	09-07-09	Joseph Limon

Pratap G. Reddy, Ph.D., P.E
ArchanaUSA, Inc

1155 Larry Mahan Drive, Suite B, El Paso, Texas 79925
Tel: (915) 599-2183, Fax: (915) 592-4659 www.archanaUSA.com e-mail preddy@archanausa.com

DP-126

Daybreak Dairy
P.O. Box 170
Mesquite, NM 88048

GROUND WATER

OCT 07 2005

BUREAU

Certified Mail #7004 1350 0004 2445 3875

August 12, 2005

Mr. William Olson, Chief
Ground Water Quality Bureau
New Mexico Environment Department
1190 St. Francis Dr.
P.O. Box 26110
Santa Fe, New Mexico 87502

Ref: Application for Permit Renewal, DP-126.

Dear Mr. Olson

Enclosed you will find an original and two copies of my renewal application for Groundwater Discharge Permit, DP-126. I have enclosed a check for the $100.00 filing fee requirement.

I am also notifying you that I am selecting Option 2 for meeting my public notice requirements. I would appreciate it if you could arrange to send the required sign and display ad information to the address at the top of this letter.

If you find that additional information is required to complete your review of my application, please notify me or my plan assistant, EnviroCompliance Services, Inc., and we will provide the information as soon as possible. I look forward to working with you toward the successful completion of your review and the issuance of a renewed permit for this facility.

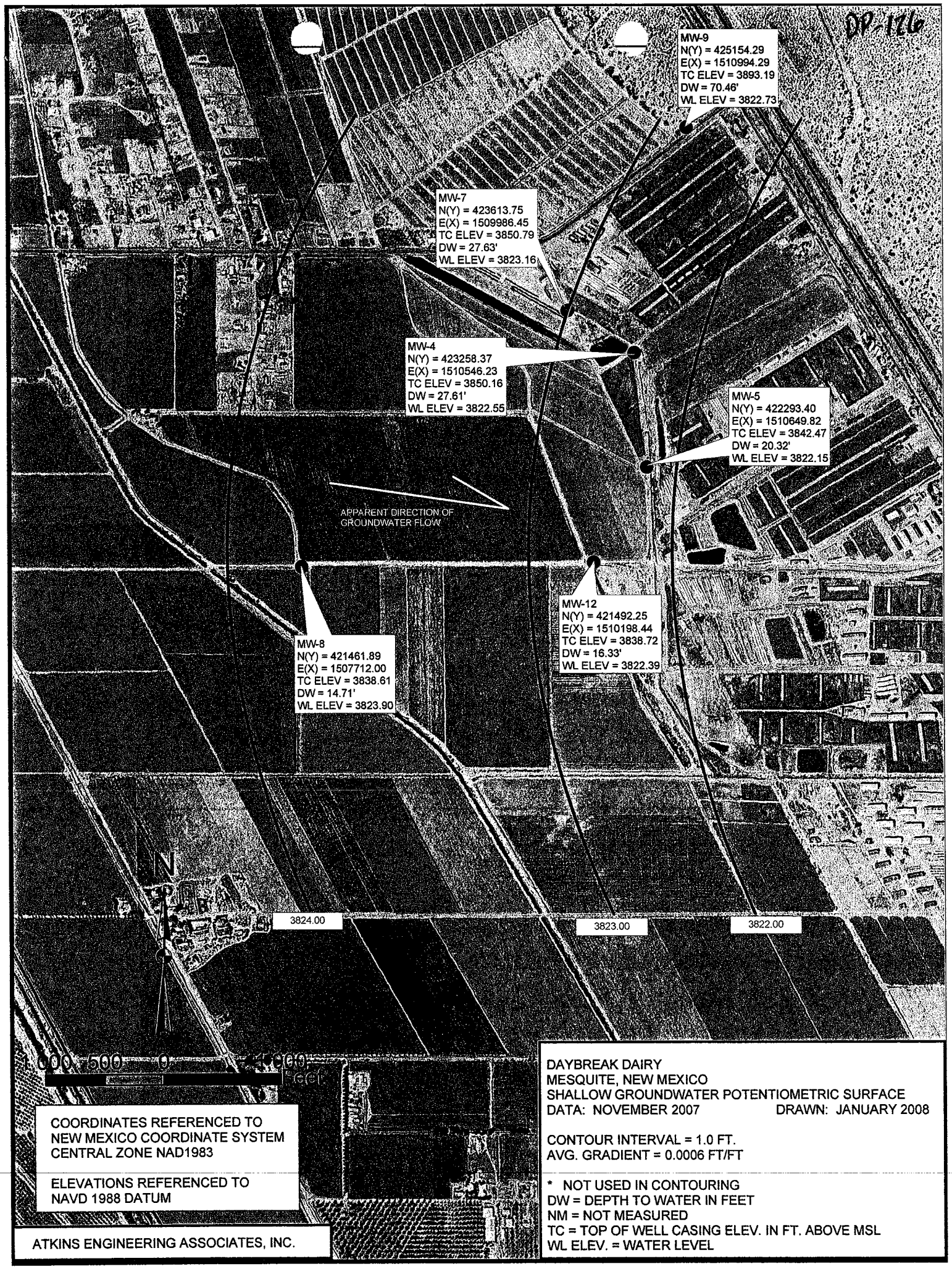
Sincerely,

Jon Gorzeman

Jon Gorzeman

Enclosures

DP-126



DAYBREAK DAIRY
MESQUITE, NEW MEXICO
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE
DATA: NOVEMBER 2007 DRAWN: JANUARY 2008

CONTOUR INTERVAL = 1.0 FT.
AVG. GRADIENT = 0.0006 FT/FT

* NOT USED IN CONTOURING
DW = DEPTH TO WATER IN FEET
NM = NOT MEASURED
TC = TOP OF WELL CASING ELEV. IN FT. ABOVE MSL
WL ELEV. = WATER LEVEL

COORDINATES REFERENCED TO
NEW MEXICO COORDINATE SYSTEM
CENTRAL ZONE NAD1983

ELEVATIONS REFERENCED TO
NAVD 1988 DATUM

ATKINS ENGINEERING ASSOCIATES, INC.

NEW MEXICO STATE UNIVERSITY
SOIL & WATER TESTING LAB.
BOX 3Q NMSU
LAS CRUCES, NEW MEXICO 88003

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

F1784(0

Date received	Lab No.	user code No.
5-31-91	7281	

TYPE or PRINT with Ball Point Pen

CHEMICAL ANALYSES: *Check individual items for analysis* [*Mark appropriate box(es)*]

INTERIM PRIMARY PARAMETER GROUP: ☐ 1 ☐ 2 ☐ 3

TYPE of CHEMICAL ANALYSIS: ☐ Complete Secondary

Water Supply System Name	Water Supply System Code No.	City or Location	County	Check one:
GORZEMAN DAIRY #2	DP-126	MESQUITE	D. A.	☐ TREATED WATER ☒ RAW

Collection Date	Collection Time	Collection Point	Collector's remarks	Report to
5-31-91	10:00 AM	GM-3		DAIRY-EID

Collected By	Owner	Address
JUAN	LARRY GORZEMAN	

TYPE of SYSTEM (*Check one*): ☒ PRIVATE PUBLIC: ☐ Community ☐ Non-community

SOURCE: ☐ Spring ☐ Lake ☒ Well-Depth 17'9" 7/8 ☐ Drain ☐ Stream ☐ Pool ☐ Other (*specify*) LAT. ° ' LONG ° '

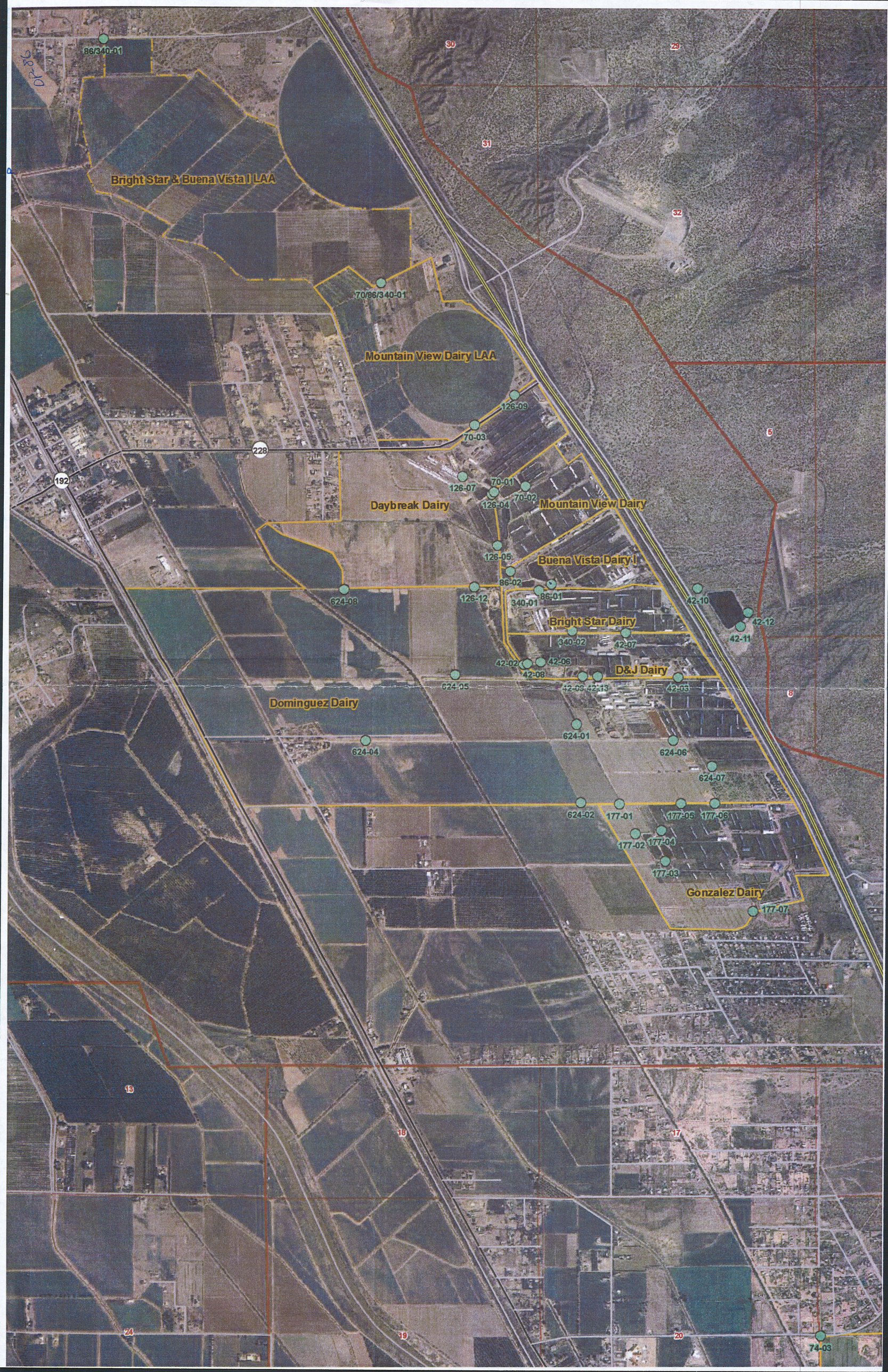
CATIONS	mg/l	ANIONS	mg/l	PHYSICAL	mg/l	HEAVY METALS	mg/l	PARAMETER	mg/L	PARAMETER	mg
Sodium (as Na)		X Chloride (as Cl)	1045	X Total Filterable Residue	1253	Arsenic		TKN	2.5		
Potassium (as K)		Fluoride (as F)		Foaming Agents (as Las)		Barium					
TotHardness (as CaCO3)		X Nitrate (as N)	177	Conductance Micromhos 25°C		Cadmium					
Calcium (as Ca)		Alkalinity (as $CaCO_3$)		pH		Chromium					
Magnesium (as Mg)		Bicarbonate (as HCO_3)		Odor		Lead					
Iron-Total (as Fe)		Carbonate (as CO_3)		Color	mg/l	Mercury					
Manganese (as Mn)		Sulfate (as SO_4)		Turbidity		Selenium					
						Silver					

RECEIVED
JUL 19 1991
GROUND WATER BUREAU

LABORATORY REMARKS:

Reviewed by: Andrew Lee Brun
Date reported: 6-27-91

DISTRIBUTION: White - Water Supply Regulation, SF • Canary • WS System • Pink - EIA Regional Office • Goldenrod Lab


86/340-01
Bright Star & Buena Vista I LAA
70/86/340-01
Mountain View Dairy LAA
126-09
70-03
228
192
126-07
70-01
70-02
126-04
Daybreak Dairy
Mountain View Dairy
126-05
Buena Vista Dairy I
86-02
86-01
340-01
624-08
126-12
42-10
42-12
42-11
Bright Star Dairy
340-02
42-07
42-02
42-06
42-08
D&J Dairy
42-09
42-13
42-03
624-05
Dominguez Dairy
624-01
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177-03
Gonzalez Dairy
177-07
74-03