

**GROUND WATER DISCHARGE PERMIT - RENEWAL AND MODIFICATION
EXISTING DAIRY FACILITY with a LAND APPLICATION AREA
Rajen Dairy #2, DP-878**

I. INTRODUCTION AND SUMMARY

The New Mexico Environment Department (NMED) issues this Discharge Permit Renewal and Modification (Discharge Permit), DP-878, to Randy Vander Dussen (permittee) pursuant to the New Mexico Water Quality Act (WQA), NMSA 1978, §§ 74-6-1 through 74-6-17, and the New Mexico Water Quality Control Commission (WQCC) Regulations, 20.6.2 and 20.6.6 NMAC.

NMED's purpose in issuing this Discharge Permit is to control the discharge of water contaminants from Rajen Dairy #2 (dairy facility) for the protection of ground water and those segments of surface water gaining from ground water inflow, for present and potential future use as domestic and agricultural water supply and other uses, and to protect public health.

The activities which produce the discharge, the location of the discharge, and the quantity, quality and flow characteristics of the discharge are briefly described as follows:

A maximum daily discharge volume of 72,000 gallons per day (gpd) of wastewater may be discharged from the production area. Wastewater gravity flows to a concrete-lined sump and is pumped over the first of two incline screen solids separators into a clay-lined wastewater/stormwater combination impoundment for storage prior to land application. Wastewater is pumped from the impoundment over a second incline screen separator into an aboveground tank for land application by center pivot irrigation to up to 540 acres of irrigated cropland under cultivation. Wastewater from the combination clay-lined impoundment is also recycled for use in a flush alley system. The modification consists of decreasing the land application area from 650 acres to 540 acres. The discharge contains water contaminants or toxic pollutants which may be elevated above the standards of Section 20.6.2.3103 NMAC.

The dairy facility is located at 1157 Curry Road 7, approximately two miles southwest of Clovis, in Sections 34, 35 and 36, Township 2N, Range 35E, Curry County. Ground water most likely to be affected is at a depth of approximately 316 feet and had a pre-discharge total dissolved solids concentration of approximately 180 milligrams per liter.

The original Discharge Permit was issued on November 2, 1992, and subsequently renewed and modified on March 4, 1999, and June 4, 2004. The application consists of the materials submitted by the permittee dated May 18, 2009, and materials contained in the administrative record associated with issuance of this Discharge Permit. The discharge shall be managed in accordance with all applicable requirements of the Dairy Rule (20.6.6 NMAC) and this Discharge Permit.

Issuance of this Discharge Permit does not relieve the permittee of the responsibility to comply with the WQA, WQCC Regulations, and any other applicable federal, state and/or local laws and regulations, such as zoning requirements and nuisance ordinances.

The following acronyms and abbreviations may be used in this Discharge Permit:

Abbreviation	Explanation	Abbreviation	Explanation
Cl	chloride	NO ₃ -N	nitrate-nitrogen
gpd	gallons per day	S	Sulfur
LADS	land application data sheet(s)	SO ₄	Sulfate
mg/L	milligrams per liter	TDS	total dissolved solids
NMAC	New Mexico Administrative Code	TKN	total Kjeldahl nitrogen
NMED	New Mexico Environment Department	WQA	New Mexico Water Quality Act
NMP	Nutrient management plan	WQCC	Water Quality Control Commission
NMSA	New Mexico Statutes Annotated		

II. FINDINGS

In issuing this Discharge Permit, NMED finds:

1. The permittee is discharging from a facility that meets the definition of “dairy facility” and is subject to the Dairy Rule (20.6.6 NMAC). This dairy facility meets the definition of “existing dairy facility”.
2. The permittee is discharging effluent or leachate from the dairy facility that may move directly or indirectly into ground water within the meaning of Section 20.6.2.3104 NMAC.
3. The permittee is discharging effluent or leachate from the dairy facility that may move into ground water of the State of New Mexico which has an existing concentration of 10,000 milligrams per liter or less of total dissolved solids within the meaning of Subsection A of 20.6.2.3101 NMAC.
4. The discharge from the dairy facility is not subject to any of the exemptions of Section 20.6.2.3105 NMAC.
5. The Discharge Permit for this facility last issued on June 4, 2004, (before the effective date of the Dairy Rule of December 31, 2011) required the wastewater impoundment system to have the capacity to store the volume of wastewater discharged at the maximum daily discharge volume, for a minimum of 60 days, plus stormwater runoff generated from the facility, while preserving two feet of freeboard.
6. The dairy facility was existing as of the effective date of the Dairy Rule (December 31, 2011) and does not measure the volume of wastewater discharged to wastewater impoundment(s) using a flow meter installed on the discharge line(s) from all wastewater

sources to the wastewater impoundment(s). As of the effective date of this Discharge Permit, the dairy facility uses a supply meter to estimate the volume of wastewater generated in the production area. The meter measures the volume of all fresh water contributing to the wastewater discharged from the production area.

7. This Discharge Permit contains requirements associated with the following potential contaminant sources as identified in the application and the administrative record as of the effective date of this Discharge Permit:
 - a) Combination Wastewater/Stormwater Impoundments
 - i. **Wastewater Lagoon** - authorized for use by this Discharge Permit.
 - b) Stormwater Impoundments
 - i. **Storm Runoff Lagoon** - authorized for use by this Discharge Permit.
 - c) Fields within the Land Application Area
 - i. **Field 6** - authorized for use by this Discharge Permit.
 - ii. **Field 7** - authorized for use by this Discharge Permit.
 - iii. **Field 8** - authorized for use by this Discharge Permit.
 - iv. **Field 12** - authorized for use by this Discharge Permit.
 - v. **Field 13** - authorized for use by this Discharge Permit.
 - vi. **Field F** - not authorized for use by this Discharge Permit; was authorized for use by the last Discharge Permit issued prior to the effective date of the Dairy Rule; however, the field has not received wastewater/stormwater as of the effective date of this discharge permit.

III. APPLICABLE RULES

Sections 20.6.2.3000 through 20.6.2.3114 NMAC and Part 20.6.6 NMAC (Dairy Rule) apply to discharges specific to dairy facilities and their operations.

IV. DISCHARGE PERMIT REQUIREMENTS

The permittee is authorized to discharge water contaminants pursuant to this Discharge Permit which contains requirements authorized or specified by the Dairy Rule. The permittee shall comply with the Dairy Rule and this Discharge Permit, which are enforceable by NMED. The permittee is authorized to discharge water contaminants subject to the following requirements:

AUTHORIZATION TO DISCHARGE

1. The permittee is authorized to discharge up to 72,000 gpd of wastewater from the production area. Wastewater gravity flows to a concrete-lined sump and is pumped over the first of two incline screen solids separators into a clay-lined wastewater/stormwater combination impoundment for storage prior to land application. Wastewater is pumped from the impoundment over a second incline screen separator into an aboveground tank

for land application by center pivot irrigation to up to 540 acres of irrigated cropland under cultivation. Wastewater from the combination clay-lined impoundment is also recycled for use in a flush alley system.

2. The permittee is authorized to use the following impoundments for the following purposes in accordance with Subsection B of 20.6.6.20 NMAC.
 - a) **Wastewater Lagoon** – authorized to receive wastewater and stormwater for storage prior to land application. This impoundment exists as of the effective date of this Discharge Permit and is clay-lined. This impoundment is located south of the parlor and main corral system and east of the commodities storage buildings. Stormwater runoff from the main corral system collects in this impoundment.
 - b) **Storm Runoff Lagoon** – authorized to collect stormwater for transfer to the Wastewater Lagoon or for application to fields within the land application area. This impoundment exists as of the effective date of this Discharge Permit and is unlined. This impoundment is located south of the production area and southeast of Field 13. Stormwater runoff from the southern corral area and the commodities storage area collects in this impoundment.

3. The permittee is authorized to apply wastewater and stormwater to all fields within the land application area in accordance with Subsections B, C and I of 20.6.6.21 NMAC. The land application area consists of the following fields for a total land application area of 540 acres.
 - a) **Field 6** – consists of 120 acres; application by center pivot. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater/stormwater and has received wastewater/stormwater as of the effective date of this Discharge Permit. This field is located west of Field 7, and was previously known as Land Application Area E.
 - b) **Field 7** – consists of 120 acres; application by center pivot. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater/stormwater and has received wastewater/stormwater as of the effective date of this Discharge Permit. This field is located west of Field 8, and was previously known as Land Application Area D.
 - c) **Field 8** – consists of 120 acres; application by center pivot. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater/stormwater and has received wastewater/stormwater as of the effective date of this Discharge Permit. This field is located west of Field 12 and the production area, and was previously known as Field A3 and Land Application Area C.
 - d) **Field 12** – consists of 60 acres; application by center pivot. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater/stormwater and has received wastewater/stormwater as of the effective date of this Discharge Permit. This

field is located west the production area, and was previously known as Field A1 and Land Application Area B.

- e) **Field 13** – consists of 120 acres; application by center pivot. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater/stormwater and has received wastewater/stormwater as of the effective date of this Discharge Permit. This field is located south of the production area and Field 12, and was previously known as Field A2 and Land Application Area A.

DAIRY RULE TRANSITION REQUIREMENTS

4. The permittee shall have 90 days from the effective date of this Discharge Permit (**by DATE**) to submit all the necessary information to comply with Sections 20.6.6.10 through 20.6.6.13 NMAC, in accordance with Subsection D of 20.6.6.35 NMAC. The permittee shall submit the necessary information by completing the application form for Renewal and/or Modification located at the following address:
- <http://www.nmenv.state.nm.us/gwb/NMED-GWQB-dairies.htm>

The following sections of the application form for renewal and/or modification shall be completed, and the form shall be signed by the permittee and notarized prior to submission.

- a) Introduction – *Applicant's Signature and Notary Certification only*
- b) Part I.A
- c) Part II.A.1
- d) Part II.A.2(a) and (b)
- e) Part II.B.1 through 5, and 7
- f) Part II.C
- g) Part II.D.2
- h) Part II.D.3(a)
- i) Part II.E.3
- j) Part II.F
- k) Part IV.A
- l) Part IV.B
- m) Part IV.C

ENGINEERING AND SURVEYING REQUIREMENTS

5. The permittee shall comply with the requirements of Section 20.6.6.17 NMAC and shall submit to NMED all information or documentation required by the applicable portions of Section 20.6.6.17 NMAC.
6. The permittee shall complete the following items and submit documentation to NMED as summarized in the following table:

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
A.	<p><u>Flow Metering Plans:</u></p> <p>To achieve compliance with Subsection J of 20.6.6.20 NMAC, submit a description of the location and installation/construction information for a flow meter(s) to measure the following:</p> <ul style="list-style-type: none"> the volume of stormwater transferred from the stormwater impoundment to the land application distribution system (pursuant to Subsection H of 20.6.6.21 NMAC)* <p>* If stormwater is transferred to the wastewater impoundment(s) and is not applied directly to the land application area, installation and use of this meter(s) is not required.</p>	[90 days of effective date]	20.6.6.17.C(7) NMAC

OPERATIONAL REQUIREMENTS

- The permittee shall comply with the requirements of Sections 20.6.6.20 and 20.6.6.21 NMAC, and shall submit to NMED all information or documentation required by the applicable portions of Sections 20.6.6.20 and 20.6.6.21 NMAC.
- The permittee shall provide written notice to NMED regarding any changes to the presence of lactating cows and/or the status of wastewater discharges at the facility in accordance with Subsection A of 20.6.6.20 NMAC (summarized in the table below).

Activity	Notification of Estimated Date	Verification of Actual Date
Removal of Lactating Cows	Not required	Within 30 days of removal
Reintroduction of Lactating Cows	Not required	Within 30 days of reintroduction
Cessation of wastewater discharge	Not required	Within 30 days of cessation of discharge
Recommencement of Discharge	Minimum 30 days prior to recommencement	Within 30 days of recommencement

- The permittee is authorized and required to transfer stormwater collected in the unlined stormwater impoundment(s) to the wastewater impoundment(s) or the distribution system for the land application area in accordance with Subsection I of 20.6.6.20 NMAC.

10. The permittee shall install and use the following flow meter(s) in accordance with Subsections J, K, L and N of 20.6.6.20 NMAC, and Subsections G and H of 20.6.6.21 NMAC.
 - a) **Stormwater Meter** – to be located on the transfer line between the Storm Runoff Lagoon and the land application area to measure the volume of stormwater applied to each field in the land application area. If stormwater is transferred to the wastewater impoundment and is not applied directly to land application fields, then installation and use of this meter is not required.

Confirmation of flow meter installation shall be completed in accordance with Subsection J of 20.6.6.20 NMAC.

11. Pursuant to Subsection D of 20.6.6.35 NMAC, the permittee shall have 90 days from the effective date of this Discharge Permit (**by DATE**) to submit documentation in accordance with Subsection M of 20.6.6.20 NMAC to demonstrate that the existing flow meter(s) meets the requirements of Subsection M of 20.6.6.20 NMAC.
12. The permittee is authorized to use the following existing flow meter(s) provided that the requirements of Subsection M of 20.6.6.20 NMAC have been met.
 - a) **LAA Meter** – located at the second screen separator and aboveground tank on the discharge line to the land application area; measures the volume of wastewater/stormwater discharged from Wastewater Lagoon to each field in the land application area.
13. The permittee is authorized to use the following existing flow meter(s) pursuant to the alternative requirements of Subsection N of 20.6.6.20 NMAC [provided that the requirements of Subsection M of 20.6.6.20 NMAC have been met].
 - a) **Parlor Supply Meter** – located on the incoming water parlor supply line; measures the volume of all fresh water contributing to the wastewater discharged to Wastewater Lagoon; providing an estimate of the volume of wastewater generated from the milking parlor.
14. The permittee is authorized, pursuant to Subsection S of 20.6.6.20 NMAC, to land apply manure solids and composted material to the land application area. Manure solids and composted material shall be applied in accordance with the Nutrient Management Plan (NMP) required by Subsection I of 20.6.6.21 NMAC.
15. The permittee is authorized to blend wastewater with fresh irrigation water for land application using any of the methods provided in Subsection D of 20.6.6.21 NMAC. Fresh water may be added to a wastewater impoundment prior to land application in accordance with Subsection D of 20.6.6.21 NMAC.
16. The permittee shall remove crops from the following fields within the land application area using the following methods in accordance with Subsection I and J of 20.6.6.21 NMAC. Crops may be grazed prior to and between mechanical harvests, however,

nitrogen removal credit shall not be taken for grazing activities unless a grazing plan is developed and submitted in accordance with Subsections I and J of 20.6.6.21 NMAC.

- a) **Field 6** – crops shall be harvested mechanically.
- b) **Field 7** – crops shall be harvested mechanically.
- c) **Field 8** – crops shall be harvested mechanically.
- d) **Field 12** – crops shall be harvested mechanically.
- e) **Field 13** – crops shall be harvested mechanically.

The permittee shall submit an application for Discharge Permit Modification to NMED for any proposed changes to the method(s) of crop removal for any field within the land application area as required by Subsection K of 20.6.6.21 NMAC.

17. The permittee shall complete the following items and submit documentation to NMED as summarized in the following table:

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
A.	<u>Flow Meter Installation:</u> i) Complete installation of flow meter(s). ii) Submit confirmation of installation.	[150 days of effective date] [180 days of effective date]	20.6.6.20.J NMAC
B.	<u>Scaled Map of Dairy Facility – Updates:</u> Following completion of any additions or changes to the dairy facility which affect the items listed in Subsection U of 20.6.6.20 NMAC, the permittee shall update and resubmit the facility map.	Within 90 days of any addition or change.	20.6.6.20.V NMAC
C.	<u>Nutrient Management Plan:</u> Develop and submit annual updates to the NMP.	Annually: May 1	20.6.6.21.I NMAC
D.	<u>Backflow Prevention:</u> i) Complete installation of backflow prevention methods or devices. ii) Submit confirmation of installation.	[90 days of effective date] [180 days of effective date]	20.6.6.21.M NMAC
E.	<u>Backflow Prevention by Reduced Pressure Principle Backflow Prevention Assembly – Inspection and Maintenance:</u> Submit copies of inspection and maintenance records and test results for each RP device, should the device be used to satisfy the requirements of Subsection M of 20.6.6.21 NMAC.	Annually: May 1	20.6.6.21.N NMAC

GROUND WATER MONITORING REQUIREMENTS

18. The permittee shall comply with the requirements of Section 20.6.6.23 NMAC and shall submit to NMED all information or documentation required by the applicable portions of Section 20.6.6.23 NMAC.
19. Monitoring wells shall be constructed and completed in accordance with Subsection D of 20.6.6.23 NMAC.
20. Monitoring wells shall be permanently identified in accordance with Subsection C of 20.6.6.23 NMAC.
21. The permittee shall complete the following items and submit documentation to NMED as summarized in the following table:

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
A.	<p><u>Ground Water Monitoring – Existing Combination Wastewater/Stormwater Impoundments:</u></p> <p>Install the following monitoring wells within 75 feet hydrologically downgradient of the top inside edge of each <u>existing</u> combination impoundment:</p> <p>i) MW-1A, hydrologically downgradient of the clay-lined combination wastewater/stormwater impoundment (replaces the supply well known as MW-1).</p>	[120 days of effective date]	20.6.6.23.A(2) NMAC
B.	<p><u>Ground Water Monitoring – Existing Stormwater Impoundments:</u></p> <p>Install the following monitoring wells within 75 feet hydrologically downgradient of the top inside edge of each <u>existing</u> stormwater impoundment:</p> <p>i) MW-3, hydrologically downgradient of Storm Runoff Lagoon.</p>	[120 days of effective date]	20.6.6.23.A(3) NMAC
C.	<p><u>Ground Water Monitoring – Existing Land Application Area:</u></p> <p>Install the following monitoring wells within 50 feet hydrologically downgradient of the downgradient boundary of <u>existing</u> fields within the land application area:</p> <p>i) MW-2A, hydrologically downgradient of Field 13 (replaces the supply well known as MW-2). ii) MW-4, hydrologically downgradient of Field 12. iii) MW-5, hydrologically downgradient of Field 8. iv) MW-6, hydrologically downgradient of Field 7. v) MW-7, hydrologically downgradient of Field 6.</p>	[120 days of effective date]	20.6.6.23.A(4) (b) NMAC

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
D.	<u>Ground Water Monitoring – Upgradient:</u> Install a monitoring well, MW-8 , hydrologically upgradient of all contamination sources at the dairy facility.	[120 days of effective date]	20.6.6.23.A(5) NMAC
E.	<u>Ground Water Sampling and Reporting – Routine:</u> Collect and analyze ground water samples quarterly from all monitoring wells identified in this Discharge Permit. Sampling shall be performed and results submitted in accordance with Subsection F of 20.6.6.23 NMAC.	Quarterly	20.6.6.23.G
F.	<u>Ground Water Sampling – New Monitoring Wells:</u> Collect ground water samples from monitoring wells required to be installed <i>within 120 days of the effective date of the Discharge Permit</i> . Sampling shall be performed in accordance with Subsection F of 20.6.6.23 NMAC using the monitoring wells required to be installed in the following locations: i) MW-1A , hydrologically downgradient of the clay-lined combination wastewater/stormwater impoundment. ii) MW-2A , hydrologically downgradient of Field 13. iii) MW-3 , hydrologically downgradient of Storm Runoff Lagoon. iv) MW-4 , hydrologically downgradient of Field 12. v) MW-5 , hydrologically downgradient of Field 8. vi) MW-6 , hydrologically downgradient of Field 7. vii) MW-7 , hydrologically downgradient of Field 6. viii) MW-8 , hydrologically upgradient of all contamination sources at the dairy facility.	[150 days of effective date]	20.6.6.23.H NMAC
G.	<u>Monitoring Well Survey and Ground Water Flow Determination:</u> Survey monitoring wells required to be installed <i>within 120 days of the effective date of the Discharge Permit</i> to a USGS benchmark.	[150 days of effective date]	20.6.6.23.I NMAC
H.	<u>Monitoring Well Completion Report:</u> Submit a monitoring well completion report for monitoring wells required to be installed <i>within 120 days of the effective date of the Discharge Permit</i> . The report shall include information from all monitoring wells.	[180 days of effective date]	20.6.6.23.J NMAC
I.	<u>Ground Water Elevation Contour Maps:</u> Develop and submit ground water elevation contour maps on a quarterly basis using data collected from all monitoring wells used for ground water monitoring at the dairy facility.	Quarterly	20.6.6.23.L NMAC

MONITORING REQUIREMENTS

22. The permittee shall comply with the requirements of Sections 20.6.6.24 and 20.6.6.25 NMAC, and shall submit to NMED all information or documentation required by the applicable portions of Sections 20.6.6.24 and 20.6.6.25 NMAC.
23. The permittee shall submit monitoring reports to NMED on a quarterly schedule that contain monitoring data and information collected pursuant to the Dairy Rule and submitted in accordance with Subsection A of 20.6.6.24 NMAC.

Quarterly monitoring reports shall be submitted according to the following schedule:

- January 1 through March 31 (first quarter) – report due by **May 1**
- April 1 through June 30 (second quarter) – report due by **August 1**
- July 1 through September 30 (third quarter) – report due by **November 1**
- October 1 through December 31 (fourth quarter) – report due by **February 1**

24. The permittee shall perform the following monitoring and submit to NMED the required documentation in monitoring reports as summarized in the following table:

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
A.	<u>Wastewater Volume Estimation and Reporting:</u> Using a flow meter(s) installed on the fresh water supply line(s), measure the volume of all sources contributing to the wastewater discharged to the impoundment(s) authorized to contain wastewater. Submit the meter readings (without adjustments or deductions in accordance with Subsection N of 20.6.6.20 NMAC).	Quarterly	20.6.6.24.C NMAC
B.	<u>Stormwater Sampling and Reporting:</u> Collect and analyze stormwater samples on a quarterly basis from each stormwater impoundment and submit results.	Quarterly	20.6.6.24.D NMAC
C.	<u>Flow Meter Field Calibration:</u> Perform flow meter field calibrations annually and submit a flow meter field calibration report.	Annually: May 1	20.6.6.24.E NMAC
D.	<u>Volume of Wastewater and Wastewater/Stormwater Land Applied – Measurement and Reporting:</u> Measure the volume of all wastewater discharges to each field within the land application area using a flow meter(s) and submit the information.	Quarterly	20.6.6.25.A NMAC
E.	<u>Volume of Stormwater Land Applied – Measurement and Reporting:</u> Measure the volume of all stormwater applications to each field within the land application area using a flow meter(s) and submit the information.	Quarterly	20.6.6.25.B NMAC

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
F.	<p><u>Wastewater to be Land Applied – Sampling and Reporting:</u></p> <p>The permittee shall collect a representative wastewater sample (consisting of eight subsamples) from each wastewater or combination wastewater/stormwater impoundment. Analyze each representative wastewater sample on a quarterly basis and submit results.</p>	Quarterly	20.6.6.25.C NMAC
G.	<p><u>Manure Solids – Nitrogen Content:</u></p> <p>Should a permittee choose to use actual nitrogen content values of on-site manure solids for the purpose of applying to the land application area, the permittee shall collect and analyze samples annually, and submit results.</p>	Quarterly	20.6.6.25.D NMAC
H.	<p><u>Irrigation Water – Sampling, Volume Applied and Reporting:</u></p> <p>Collect and analyze fresh irrigation water samples on an annual basis from each irrigation well associated with the land application area. Estimate the annual volume of irrigation water applied to each field from each well. Submit estimated volumes and analytical results.</p>	Annually: May 1	20.6.6.25.E NMAC
I.	<p><u>Fertilizer Application Reporting:</u></p> <p>Maintain and submit a log of all additional fertilizer applied to each field within the land application area.</p>	Quarterly	20.6.6.25.F NMAC
J.	<p><u>Land Application Data Sheets:</u></p> <p>Complete and submit land application data sheets (LADS) for each field within the land application area.</p>	Quarterly	20.6.6.25.G NMAC
K.	<p><u>Crop Yield Documentation:</u></p> <p>Submit crop yield documentation and plant and harvest dates of each crop grown.</p>	Quarterly	20.6.6.25.H NMAC
L.	<p><u>Nitrogen Concentration of Harvested Crop:</u></p> <p>Determine the percent total nitrogen and dry matter of each harvested crop and submit results.</p>	Quarterly	20.6.6.25.I NMAC
M.	<p><u>Nitrogen Removal Summary of Harvested Crop:</u></p> <p>Develop and submit a nitrogen removal summary for each crop grown on each field within the land application area.</p>	Quarterly	20.6.6.25.J NMAC
N.	<p><u>Soil Sampling – Initial Event in a Discharge Permit Term:</u></p> <p>Collect and analyze <u>initial</u> soil samples from each field in the land application area for the first soil sampling event during the first year following the effective date of this Discharge Permit. Submit the results.</p>	May 1, 2014	20.6.6.25.K NMAC

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
O.	<p><u>Soil Sampling – Routine:</u> Collect and analyze <u>routine</u> soil samples annually from each field in the land application area beginning the year following the initial sampling event. Submit the results.</p>	<p>Annually: May 1</p>	<p>20.6.6.25.L NMAC</p>

CONTINGENCY REQUIREMENTS

25. The permittee shall comply with the requirements of Section 20.6.6.27 NMAC and shall submit to NMED all information or documentation required by the applicable portions of Section 20.6.6.27 NMAC.

CLOSURE REQUIREMENTS

26. The permittee shall comply with the requirements of Section 20.6.6.30 NMAC and shall submit to NMED all information or documentation required by the applicable portions of Section 20.6.6.30 NMAC.

27. Only upon written notification by certified mail from NMED, shall the permittee abandon the following well(s) previously used for monitoring in accordance with Subsection C of 20.6.6.30 NMAC. The permittee is not required to perform routine ground water sampling from the following well(s); however, NMED may collect ground water samples from the well(s) pursuant to Subsection D of 20.6.2.3107 NMAC.

a) **MW-1**, located at south-southwest of the production area and north of Field 13.

The well abandonment report shall be submitted to NMED within 60 days of completion of well plugging activities.

GENERAL REQUIREMENTS

28. The permittee shall operate in a manner such that standards and requirements of Sections 20.6.2.3101 and 20.6.2.3103 NMAC are not violated.
29. The permittee shall retain required records for a minimum period of 10 years from the date of sample collection, measurement, report or application in accordance with Section 20.6.6.33 NMAC.
30. Transfer of a Discharge Permit for a dairy facility shall be completed in accordance with Section 20.6.6.34 NMAC.

31. To renew this Discharge Permit, the permittee shall submit an application for renewal, renewal and modification, or renewal for closure at least one year prior to the expiration date of the Discharge Permit in accordance with Section 20.6.6.10 NMAC.
32. In accordance with Subsection A of 20.6.6.9 NMAC, the permittee shall remit a permit fee payment equal to one-tenth of the applicable permit fee from Table 1 of Section 20.6.2.3114 NMAC on the first occurrence of August 1 after the effective date of the Discharge Permit, and annually thereafter until expiration or termination of the Discharge Permit.

V. ADDITIONAL CONDITIONS

In addition to the requirements of 20.6.6 NMAC, the permittee shall comply with the following conditions as authorized by Subsection H of 20.6.6.10 NMAC pursuant to Section 74-6-5 WQA. A hearing may be requested on additional conditions in accordance with Section 20.6.6.15 NMAC.

1. This Discharge Permit does not contain additional conditions.

VI. PERMIT ISSUANCE

Pursuant to WQA 74-6-5(I), the term of this Discharge Permit shall be for the fixed term of five years from the effective date of the Discharge Permit.

Issued by: New Mexico Environment Department

Effective Date: **DATE**

Expiration Date: **DATE**

JERRY SCHOEPPNER
Chief, Ground Water Quality Bureau
New Mexico Environment Department