

**GROUND WATER DISCHARGE PERMIT - RENEWAL AND MODIFICATION  
EXISTING DAIRY FACILITY with a LAND APPLICATION AREA  
Dexter Dairy, DP-606**

**I. INTRODUCTION AND SUMMARY**

The New Mexico Environment Department (NMED) issues this Discharge Permit Renewal and Modification (Discharge Permit), DP-606, to Abel Villalpando (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 Dexter Dairy (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 135,000 gallons per day (gpd) of wastewater may be discharged from this dairy facility which includes 90,000 gpd from the production area of Dexter Dairy and 45,000 gpd from the production area of Dandee Dairy (DP-533). Wastewater from Dexter Dairy flows to a concrete sump and is pumped through a solids separator to a synthetically lined combination wastewater/stormwater impoundment (currently clay-lined) for storage prior to being applied by flood and center pivot irrigation to up to 175 acres of irrigated cropland under cultivation. Following manure solids separation, wastewater from Dandee Dairy is discharged to Dexter Dairy's synthetically lined combination impoundment. The modification consists of increasing the maximum daily discharge volume for Dexter Dairy from 40,000 to 135,000 gpd. The discharge contains water contaminants or toxic pollutants which may be elevated above the standards of Section 20.6.2.3103 NMAC.

The facility is located at 7361 Vineyard Road, approximately three miles southwest of Dexter, in Sections 25 and 26, T13S, R25E, Chaves County. Ground water most likely to be affected is at a depth of approximately 95 feet and had a pre-discharge total dissolved solids concentration of approximately 950 milligrams per liter.

The original Discharge Permit was issued on August 15, 1989, and subsequently renewed on February 9, 1996, and renewed and modified on May 30, 2001. The permittee's application consists of the materials submitted by Abel Villalpando dated July 26, 2006 and September 7, 2007, 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:

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Abbreviation	Explanation	Abbreviation	Explanation
Cl	chloride	NO <sub>3</sub> -N	nitrate-nitrogen
gpd	gallons per day	S	Sulfur
LADS	land application data sheet(s)	SO <sub>4</sub>	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. Data collected from on-site monitoring wells document ground water contamination attributed to one or more sources at this dairy facility. Ground water quality standards for Cl, NO<sub>3</sub>-N, TDS have been exceeded according to the criteria of Sections 20.6.2.3101 and 20.6.2.3103 NMAC.
6. The Discharge Permit for this facility last issued on May 30, 2001 (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 while preserving two feet of freeboard.

7. The dairy facility was existing as of the effective date of the Dairy Rule (December 31, 2011) and measures the volume of wastewater discharged to a wastewater impoundment(s) using a totalizing flow meter installed on the discharge line(s) from all wastewater sources to the wastewater impoundment(s).
8. 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 Impoundment
    - i. **Impoundment 1 (former Runoff Impoundment)** - authorized for use by this Discharge Permit.
  - b) Wastewater Impoundment
    - i. **Impoundment Old** - 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; subject to closure and post-closure ground water monitoring requirements.
  - c) Fields within the Land Application Area
    - i. **Field 1** - authorized for use by this Discharge Permit.
    - ii. **Field 2** - authorized for use by this Discharge Permit.
    - iii. **Field 3** - authorized for use by this Discharge Permit.
    - iv. **Field 4** - authorized for use by 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 135,000 gallons per day (gpd) of wastewater may be discharged from this dairy facility which includes 90,000 gpd from the production area of Dexter Dairy and 45,000 gpd from the production area of Dandee Dairy (DP-533). Wastewater from Dexter Dairy flows to a concrete sump and is pumped through a solids separator to a synthetically lined combination wastewater/stormwater impoundment for storage prior to being applied by flood and center pivot irrigation to up to 175 acres of irrigated cropland under cultivation. Following manure solids separation, wastewater from Dandee Dairy is discharged to Dexter Dairy's synthetically lined combination impoundment
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) **Impoundment 1** – authorized to receive wastewater and stormwater for storage prior to land application. This impoundment is currently clay-lined and is required to be constructed and synthetically lined in the location of the former Runoff 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 175 acres.
  - a) **Field 1** – consists of 85 acres; applied 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 and/or stormwater and has received wastewater and/or stormwater as of the effective date of this Discharge Permit.
  - b) **Field 2** – consists of 12 acres; applied by flood irrigation. This field was authorized by the last Discharge Permit issued prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater and/or stormwater and has not received wastewater and/or stormwater as of the effective date of this Discharge Permit.
  - c) **Field 3** – consists of 8 acres; applied by flood irrigation. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater and/or stormwater and has received wastewater and/or stormwater as of the effective date of this Discharge Permit.
  - d) **Field 4** – consists of 70 acres; applied by flood irrigation. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater and/or stormwater and has received wastewater and/or stormwater as of the effective date of this Discharge Permit.

**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 7
- f) Part II.C
- g) Part II.D.2
- h) Part II.D.3(a) and (b)
- i) Part II.E.
- 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.	<b><u>Impoundment Plans and Specifications:</u></b> Submit construction plans and specifications for installation of a combination wastewater/stormwater impoundment(s) to achieve compliance with the storage capacity requirements of Subsection D of 20.6.6.17 NMAC.	<b>[90 days of effective date]</b>	20.6.6.17.C(1) NMAC
B.	<b><u>Manure Solids Separation Plans and Specifications – New</u></b>		

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
	<p><b><u>Wastewater System:</u></b></p> <p>Submit plans and specifications for manure solids separation as a component of the newly designed wastewater storage system to achieve compliance with Subsection F of 20.6.6.20 NMAC]</p>	[90 days of effective date]	20.6.6.17.C(4) NMAC
C.	<p><b><u>Flow Metering Plans:</u></b></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"> <li>the volume of wastewater discharged from the wastewater storage impoundment system to each field in the land application area</li> </ul>	[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 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.
  - LAA Meter** – to be located on the discharge line between Impoundment 1 and the land application area to measure the volume of wastewater discharged from Impoundment 1 to each field in the land application area.

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

10. 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.
11. 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) **Sump Meter** – located at the wastewater sump (SE of parlor) to measure the volume of wastewater discharged from the production area to the Impoundment 1.
12. 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.
13. 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.
14. 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 1** – crops shall be harvested mechanically.
  - b) **Field 2** – crops shall be harvested mechanically.
  - c) **Field 3** – crops shall be harvested mechanically.
  - d) **Field 4** – 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.

15. 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.	<b><u>Impoundment Improvement:</u></b>		
	i) Complete construction of improvements to an existing	<b>[1 yr of</b>	20.6.6.20.E

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Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
	<p>impoundment to achieve compliance with the Dairy Rule, in accordance with construction plans and specifications, and supporting design calculations.</p> <p>ii) Submit the Construction Certification Report verifying construction pursuant to Subsection C of 20.6.6.17 NMAC.</p>	<p><b>effective date]</b></p> <p><b>Within 90 days of completed impoundment construction.</b></p>	<p>NMAC</p>
B.	<p><b><u>Manure Solids Separator Installation – New System:</u></b></p> <p>i) Complete construction of a manure solids separator associated with the new wastewater storage system.</p> <p>ii) Submit confirmation of solids separator construction.</p>	<p><b>Prior to discharging to the new system.</b></p>	<p>20.6.6.20.F NMAC</p>
C.	<p><b><u>Flow Meter Installation:</u></b></p> <p>i) Complete installation of flow meter(s).</p> <p>ii) Submit confirmation of installation.</p>	<p><b>[150 days of effective date]</b></p> <p><b>[180 days of effective date]</b></p>	<p>20.6.6.20.J NMAC</p>
D.	<p><b><u>Scaled Map of Dairy Facility – Updates:</u></b></p> <p>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.</p>	<p><b>Within 90 days of any addition or change.</b></p>	<p>20.6.6.20.V NMAC</p>
E.	<p><b><u>Nutrient Management Plan:</u></b></p> <p>Develop and submit annual updates to the NMP.</p>	<p><b>Annually:</b> May 1</p>	<p>20.6.6.21.I NMAC</p>
F.	<p><b><u>Backflow Prevention:</u></b></p> <p>i) Complete installation of backflow prevention methods or devices.</p> <p>ii) Submit confirmation of installation.</p>	<p><b>[90 days of effective date]</b></p> <p><b>[180 days of effective date]</b></p>	<p>20.6.6.21.M NMAC</p>
G.	<p><b><u>Backflow Prevention by Reduced Pressure Principle Backflow Prevention Assembly – Inspection and Maintenance:</u></b></p> <p>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.</p>	<p><b>Annually:</b> May 1</p>	<p>20.6.6.21.N NMAC</p>

**GROUND WATER MONITORING REQUIREMENTS**

- 16. 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.
- 17. Monitoring wells shall be constructed and completed in accordance with Subsection D of 20.6.6.23 NMAC.
- 18. Monitoring wells shall be permanently identified in accordance with Subsection C of 20.6.6.23 NMAC.
- 19. 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 the information required by Paragraph (6) of Subsection A of 20.6.6.23 NMAC to verify that monitoring wells in existence as of the effective date of this Discharge Permit and prior to the effective date of the Dairy Rule (December 31, 2011) are appropriate for continued use for ground water monitoring.

The permittee is authorized to use the following monitoring well(s) provided that the requirements of Paragraph (6) of Subsection A of 20.6.6.23 NMAC are met.

- a) **MW-1**, hydrologically downgradient of Field 4.

- 20. 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><b><u>Ground Water Monitoring – Existing Wastewater Impoundments:</u></b></p> <p>Install the following monitoring wells within 75 feet hydrologically downgradient of the top inside edge of each <u>existing</u> wastewater impoundment:</p> <ul style="list-style-type: none"> <li>i) <b>MW-7</b>, hydrologically downgradient of Impoundment Old.</li> </ul>	<b>[120 days of effective date]</b>	20.6.6.23.A(1) NMAC
B.	<p><b><u>Ground Water Monitoring – Existing Stormwater Impoundment and Improved Combination Wastewater/Stormwater Impoundment:</u></b></p> <p>Install the following monitoring wells within 75 feet hydrologically downgradient of the top inside edge of each <u>new</u> combination impoundment:</p> <ul style="list-style-type: none"> <li>i) <b>MW-8</b>, hydrologically downgradient of Impoundment 1.</li> </ul>	<b>[120 days of effective date]</b>	20.6.6.23.A(3) NMAC
C.	<p><b><u>Ground Water Monitoring – Existing Land Application Area:</u></b></p> <p>Install the following monitoring wells within 50 feet hydrologically downgradient of the downgradient boundary</p>	<b>[120 days of effective date]</b>	20.6.6.23.A(4) (a) and (b)

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Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
	<p>of <u>existing</u> fields within the land application area:                      i) <b>MW-9</b>, hydrologically downgradient of Field 1.                      ii) <b>MW-10</b>, hydrologically downgradient of Field 2 and 3.</p>		<p>NMAC</p>
D.	<p><b><u>Ground Water Monitoring – Upgradient:</u></b>                      Install a monitoring well, <b>MW-6</b>, hydrologically upgradient of all contamination sources at the dairy facility.</p>	<p><b>[120 days of effective date]</b></p>	<p>20.6.6.23.A(5)                      NMAC</p>
E.	<p><b><u>Ground Water Sampling and Reporting – Routine:</u></b>                      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.</p>	<p><b>Quarterly</b></p>	<p>20.6.6.23.G</p>
F.	<p><b><u>Ground Water Sampling – New Monitoring Wells:</u></b>                      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) <b>MW-6</b>, hydrologically upgradient of all contamination sources at the dairy facility.                      ii) <b>MW-7</b>, hydrologically downgradient of Impoundment Old.                      iii) <b>MW-8</b>, hydrologically downgradient of Impoundment 1.                      iv) <b>MW-9</b>, hydrologically downgradient of Field 1.                      v) <b>MW-10</b>, hydrologically downgradient of Field 2 and 3.</p>	<p><b>[150 days of effective date]</b></p>	<p>20.6.6.23.H                      NMAC</p>
G.	<p><b><u>Monitoring Well Survey and Ground Water Flow Determination:</u></b>                      Survey monitoring wells to a USGS benchmark.</p>	<p><b>[150 days of effective date]</b></p>	<p>20.6.6.23.I                      NMAC</p>
H.	<p><b><u>Monitoring Well Completion Report:</u></b>                      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.</p>	<p><b>[180 days of effective date]</b></p>	<p>20.6.6.23.J                      NMAC</p>
I.	<p><b><u>Ground Water Elevation Contour Maps:</u></b>                      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.</p>	<p><b>Quarterly</b></p>	<p>20.6.6.23.L                      NMAC</p>

**MONITORING REQUIREMENTS**

21. 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.
22. 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**

23. 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.	<p><b><u>Wastewater Volume Measurement and Reporting:</u></b> Using a flow meter(s) installed on the discharge line(s), measure the volume of all wastewater discharged to the impoundment(s) authorized to contain wastewater. Submit the information.</p>	<b>Quarterly</b>	20.6.6.24.C NMAC
B.	<p><b><u>Flow Meter Field Calibration:</u></b> Perform flow meter field calibrations annually and submit a flow meter field calibration report.</p>	<b>Annually: May 1</b>	20.6.6.24.E NMAC
C.	<p><b><u>Volume of Wastewater and Wastewater/Stormwater Land Applied – Measurement and Reporting:</u></b> Measure the volume of all wastewater discharges to each field within the land application area using a flow meter(s) and submit the information.</p>	<b>Quarterly</b>	20.6.6.25.A NMAC
D.	<p><b><u>Wastewater to be Land Applied – Sampling and Reporting:</u></b> 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>	<b>Quarterly</b>	20.6.6.25.C NMAC
E.	<p><b><u>Manure Solids – Nitrogen Content:</u></b> 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</p>	<b>Quarterly</b>	20.6.6.25.D NMAC

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
	analyze samples annually, and submit results.		
F.	<b><u>Irrigation Water – Sampling, Volume Applied and Reporting:</u></b> 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.	<b>Annually:</b> May 1	20.6.6.25.E NMAC
G.	<b><u>Fertilizer Application Reporting:</u></b> Maintain and submit a log of all additional fertilizer applied to each field within the land application area.	<b>Quarterly</b>	20.6.6.25.F NMAC
H.	<b><u>Land Application Data Sheets:</u></b> Complete and submit land application data sheets (LADS) for each field within the land application area.	<b>Quarterly</b>	20.6.6.25.G NMAC
I.	<b><u>Crop Yield Documentation:</u></b> Submit crop yield documentation and plant and harvest dates of each crop grown.	<b>Quarterly</b>	20.6.6.25.H NMAC
J.	<b><u>Nitrogen Concentration of Harvested Crop:</u></b> Determine the percent total nitrogen and dry matter of each harvested crop and submit results.	<b>Quarterly</b>	20.6.6.25.I NMAC
K.	<b><u>Nitrogen Removal Summary of Harvested Crop:</u></b> Develop and submit a nitrogen removal summary for each crop grown on each field within the land application area.	<b>Quarterly</b>	20.6.6.25.J NMAC
L.	<b><u>Soil Sampling – Initial Event in a Discharge Permit Term:</u></b> 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.	<b>Annually:</b> <b>May 1, 2013</b>	20.6.6.25.K NMAC
M.	<b><u>Soil Sampling – Routine:</u></b> 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.	<b>Annually:</b> May 1	20.6.6.25.L NMAC

**CONTINGENCY REQUIREMENTS**

24. 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**

25. 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.
26. Upon written notification by certified mail from NMED, the permittee shall abandon the following well(s) previously used for monitoring in accordance with Subsection C of 20.6.6.30 NMAC.
  - a) **MW-2** – located north of the hay sheds and southeast corner of Field 4.
  - b) **MW 3** – located southeast of Impoundment 1.
  - c) **MW 4** – located east of the Impoundment Old which is to be abandoned.

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

27. Within two years of the effective date of the Discharge Permit (**by DATE**), the permittee shall complete closure of the following impoundment(s) in accordance with Paragraph (2) of Subsection A of 20.6.6.30 NMAC.
  - a) **Impoundment Old** - located east of the corrals and south of the hay sheds.

### **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. Collect and analyze ground water samples on a quarterly basis for the domestic monitoring well 5 (MW-5). Sampling shall be performed and results submitted in accordance with Subsection F of 20.6.6.23 NMAC, and Subsections A and B of 20.6.6.24 NMAC.

**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]

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