

NMP Technical Review
New Mexico General Permit No. NMG010000

Facility Name: Dominguez Dairy #1
P.O. Box 21
Mesquite, New Mexico 88048

Permit No.: NMG010005

Type (ex: dairy, non-dairy cattle, etc): Dairy Cattle (Large CAFO)

County: Doña Ana

If located in Bernalillo, Chavez, Eddy, Sandoval, San Juan, or Valencia county, is EAP and metals testing included in NMP in accordance with Part III.D.8? N/A

Previously permitted: Yes

Noteworthy enforcement action: No

Receiving stream: Mossman Arroyo – 12 digit WBD HUC 130301020801

Impaired waterbody: No

If so, for what pollutant(s): N/A

EPA approved or established TMDL: No

Antidegradation: No

Stream listed as Tier 2/2.5:

Stream listed as Tier 3:

NMP developed by certified specialist: Yes

NMP elements (other than land application and adequate storage) technically complete: Yes

Employee Training: Yes

Additional comments: No

NOI/NMP Administrative Review Check List
New Mexico General Permit No. NMG010000

Facility Name: Dominguez Dairy #1
Permit Number: NMG010005

NOI (Form 2B) administratively complete: Yes
 NMP included: Yes
 NMP administratively complete: Yes

FEDERAL REGULATIONS	LOCATION IN NMP / COMMENTS																								
40 CFR Part 122.42(e)(1)(i): Ensure adequate storage of manure, litter, and process wastewater	Table 1.1: Retention Control Structure (RCS) Summary <table><tr><th>RCS #</th><th>Required Capacity without</th><th>Actual Capacity without Freeboard (ac-</th><th>Actual Capacity without Freeboard (gals)</th></tr><tr><td>PWRS</td><td>3.03</td><td>17.20</td><td>5,604,255</td></tr><tr><td>RCS-1</td><td>8.63</td><td>9.89</td><td>3,221,464</td></tr><tr><td>RCS-2</td><td>3.63</td><td>4.67</td><td>1,522,576</td></tr><tr><td>RCS-3</td><td>1.03</td><td>1.19</td><td>386,148</td></tr><tr><td>RCS-4</td><td>0.71</td><td>0.87</td><td>283,754</td></tr></table>	RCS #	Required Capacity without	Actual Capacity without Freeboard (ac-	Actual Capacity without Freeboard (gals)	PWRS	3.03	17.20	5,604,255	RCS-1	8.63	9.89	3,221,464	RCS-2	3.63	4.67	1,522,576	RCS-3	1.03	1.19	386,148	RCS-4	0.71	0.87	283,754
RCS #	Required Capacity without	Actual Capacity without Freeboard (ac-	Actual Capacity without Freeboard (gals)																						
PWRS	3.03	17.20	5,604,255																						
RCS-1	8.63	9.89	3,221,464																						
RCS-2	3.63	4.67	1,522,576																						
RCS-3	1.03	1.19	386,148																						
RCS-4	0.71	0.87	283,754																						
40 CFR Part 122.42(e)(1)(ii): Mortality management.	3.3 Mortality Management The facility will properly dispose of dead animals within three (3) days. Mortalities must not be disposed of in any liquid manure or process wastewater system that is not specifically designed to treat animal mortalities. Animals shall be disposed of in a manner to prevent contamination of waters of the United States or creation of a public health hazard. Table 3.2 identifies the method(s) of animal mortality handling used at this facility which are composting and rendering.																								
40 CFR Part 122.42(e)(1)(iii): clean water diversion.	Section 3.3 Clean Water Diversion: The facility will ensure that clean water resulting from a 25-year, 24-hour storm event is diverted, as appropriate, from the production area. Table 3.1 identifies the clean water diversions used at this facility is diversion ditches running from North to south along east property boundary and then west into the Mesquite Drain.																								
40 CFR Part 122.42(e)(1)(iv): Prevent direct contact of animals with water of US.	Section 3.4: Prevention of Direct contact of Animal’s with Waters of the US Animals confined at the CAFO shall not be allowed to come into contact with waters of the US. Waters of the US do not flow through the production area. And animals do not have access to waters of the US.																								
40 CFR Part 122.42(e)(1)(v): Chemical handling.	3.5 Chemical and other Contaminant Handling The CAFO will ensure that chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage system unless specifically designed to treat such chemicals or contaminants. All wastes from dipping vats, pest and parasite control units, and other facilities utilized for the management of potentially hazardous or toxic chemicals shall be																								

FEDERAL REGULATIONS	LOCATION IN NMP / COMMENTS												
	handled and disposed of in a manner sufficient to prevent pollutants from entering the manure, litter, or process wastewater retention structures or waters of the United States. 1. All chemicals are stored in Storage Barn/Shed 2. All chemicals will be stored in proper containers. Empty containers are properly disposed of in accordance with manufacturer's recommendations; in compliance with local, state and federal regulations. 3. Chemicals will be stored so that no drains or other pathways that will allow spilled chemicals to exit the storage area. 4. Chemical handling and equipment areas will be designed to prevent contamination of surface waters and wastewater storage ponds. 5. Emergency equipment is in place to contain and clean up spills.												
40 CFR Part 122.42.(e)(1)(vi): conservation practices, including buffers to control runoff	Table 4.1: Best Management Practices <table border="1"> <thead> <tr> <th data-bbox="565 709 873 800">Conservation Practice:</th><th data-bbox="881 709 1503 800">Land Application Site ID where the practice is being implemented:</th></tr> </thead> <tbody> <tr> <td data-bbox="565 810 873 900">Vegetative Buffer</td><td data-bbox="881 810 1503 900">Fields are bounded by elevated levies and irrigation ditch berms such that field runoff is</td></tr> <tr> <td data-bbox="565 911 873 1001">Setback</td><td data-bbox="881 911 1503 1001">The nearest Waters of the US are 4,300' from the fields</td></tr> <tr> <td data-bbox="565 1012 873 1102">Conservation Tillage</td><td data-bbox="881 1012 1503 1102">To the extent possible tillage practices are used that will leave crop residue on the surface to help</td></tr> <tr> <td data-bbox="565 1113 873 1157">Grass Filter Strips</td><td data-bbox="881 1113 1503 1157">n/a</td></tr> <tr> <td data-bbox="565 1167 873 1241">Terraces</td><td data-bbox="881 1167 1503 1241">The fields are leveled prior to planting to assure proper flood irrigation coverage.</td></tr> </tbody> </table>	Conservation Practice:	Land Application Site ID where the practice is being implemented:	Vegetative Buffer	Fields are bounded by elevated levies and irrigation ditch berms such that field runoff is	Setback	The nearest Waters of the US are 4,300' from the fields	Conservation Tillage	To the extent possible tillage practices are used that will leave crop residue on the surface to help	Grass Filter Strips	n/a	Terraces	The fields are leveled prior to planting to assure proper flood irrigation coverage.
Conservation Practice:	Land Application Site ID where the practice is being implemented:												
Vegetative Buffer	Fields are bounded by elevated levies and irrigation ditch berms such that field runoff is												
Setback	The nearest Waters of the US are 4,300' from the fields												
Conservation Tillage	To the extent possible tillage practices are used that will leave crop residue on the surface to help												
Grass Filter Strips	n/a												
Terraces	The fields are leveled prior to planting to assure proper flood irrigation coverage.												
40 CFR Part 412.4(c)(5): Setback requirements for down-gradient surface waters, open tile line intake structure, sinkhole, agricultural well head, or other conduit to surface water: 100 ft setback, 35 ft vegetative buffer, or compliance alternative.	This facility uses buffers, setbacks, grass filters, and terraces Refer to the chart above for more information.												
40 CFR Part 122.42(e)(1)(vii): protocols for testing of manure, soil, litter, or process wastewaters.	Analysis of manure, litter, and process wastewater to determine nitrogen and phosphorus content. At least annually after initial sampling Analysis of soil in all fields where land application activities are conducted to determine phosphorus content. Annually as part of narrative approach. This facility refers to the state nutrient management technical standard for the specific analyses to be used. Recommended method(s) found in Manure Management Publications/Manure Characteristics: Section 1 Second Edition MWPS-18-S1; http://www.mwps.org/.As guidance, samples may be collected and prepared according to New Mexico State University (NMSU) Extension Guide A-												

FEDERAL REGULATIONS	LOCATION IN NMP / COMMENTS
	114; http://aces.nmsu.edu/pubs/howto/howto.html . Soil test analysis shall be performed according to NMSU Extension Guide A-122 and Table 7.2.
40 CFR Part 412.4(c)(2): NMP must incorporate determination of application rates	5.3 Methodology The methodology including formulas, sources of data and protocols for making determinations. Tables 5.3 and 5.4 are example budgets that provide a methodology for the narrative approach to calculating nitrogen or phosphorus based application rates.
40 CFR Part 122.42(e)(1)(viii): protocols for land application.	1. Incorporate waste solids with tillage equipment; unless the field has perennial vegetation or is no-tilled cropped. 2. Apply waste solids during times when air is warming and rising from the ground. 3. Adjust sprayers and spreaders so the waste is applied at low pressure and apply waste/wastewater as close to the ground as possible. 4. Irrigation systems shall be managed to minimize ponding or puddling of wastewater. 5. When wastewater is sprinkler applied, the soil water holding capacity of the soil shall not be exceeded. 6. Irrigations systems shall be managed to reduce or minimize the occurrence of nuisance conditions such as flies and odors. 7. Manure or wastewater will not be applied when the ground is frozen, saturated or during rainfall events. 8. Land application methods include dry manure spreader, and for wastewater the method if flood irrigation
40 CFR Part 412.4(c)(4): NMP must incorporate inspection of land application for leaks	4.3 Land Application Equipment Inspections Manure and wastewater shall be applied as uniformly as possible with the calibrated equipment. Manure spreaders will be checked annually/seasonally to ensure that application rates are accurate. All other equipment and components of the waste management systems shall be checked on a regular basis and during application periods. Maintenance will be routinely performed on equipment to reduce the potential for leaks or spills
40 CFR Part 122.42(e)(1)(ix): record keeping.	Section 6 describes all of the record keeping requirements.
Legible site map: of the production area (including, at a minimum, the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment area), and the land application area. The map must also include flow direction, an outline of drainage areas to the process wastewater retention or control structures, structural controls, and surface water bodies.	Figure 2.1 - Vicinity Map Figure 2.1, entitled Vicinity Map, is a seamless, high-quality map. The location of the facility is depicted on the map. Figure 2.2 – USGS 7.5-Minute Quadrangle Map Figure 2.2, entitled USGS 7.5-Minute Quadrangle Map is a seamless, high-quality copy of the 7.5-minute USGS quadrangle map, that depicts the boundaries of land owned, operated, or controlled by the permittee and used as part of the concentrated animal feeding operation and all springs, lakes, or ponds located on-site and within one mile of the facility boundaries. Figure 2.3 –Site Map Figure 2.3, entitled Site Map, is a scaled drawing depicting the locations of the following information: - Location of the facility and associated waste retention structures, and associated land application sites near the facility.

FEDERAL REGULATIONS	LOCATION IN NMP / COMMENTS
	- The site map will be maintained in the on-site PPP and updated on an as-needed basis. Figure 2.4 – FEMA Floodplain Map Figure 2.4 is a map obtained from the FEMA Map Service Center
<u>Signature.</u> The NMP shall be signed by the owner/operator or other signatory authority in accordance with Part VI.E (Signatory Requirements) of this permit.	Signature from VP of this facility