

GROUND WATER DISCHARGE PERMIT RENEWAL AND MODIFICATION

The Lords Ranch, DP-1619

I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this Discharge Permit Renewal and Modification (Discharge Permit), DP-1619, to the Lords Ranch (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 NMAC.

NMED's purpose in issuing this Discharge Permit, and in imposing the requirements and conditions specified herein, is to control the discharge of water contaminants from the Lords Ranch (facility) into ground and surface water, so as to protect ground and surface water for present and potential future use as domestic and agricultural water supply and other uses and protect public health. In issuing this Discharge Permit, NMED has determined that the requirements of Subsection C of 20.6.2.3109 NMAC have been met.

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:

Up to 9,880 gallons per day (gpd) of domestic wastewater is discharged to six existing septic tank/leachfield systems, and eight septic tank/leachfield systems to be designed. Wastewater from the kitchen flows through a grease interceptor prior to being discharged to one of the septic tank/leachfield systems. The modification consists of an increase in the discharge volume from 6,880 gpd to 9,880 gpd to account for the addition of eight individual septic tank/leachfield systems to be designed. 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 230 High Valley Rd #1, Vado, in Section 13, T25S, R03E, Doña Ana County. Ground water most likely to be affected is at a depth of approximately 400 feet and has a total dissolved solids concentration of approximately 1,416 milligrams per liter.

The original Discharge Permit was issued on October 8, 2007 and subsequently amended on November 5, 2009. The permittee's application consists of the materials submitted by Molzen-Corbin and Associates on behalf of the permittee dated July 16, 2010. The discharge shall be managed in accordance with all conditions and requirements of this Discharge Permit.

Pursuant to Section 20.6.2.3109 NMAC, NMED reserves the right to require a Discharge Permit Modification in the event NMED determines that the requirements of 20.6.2 NMAC are being or may be violated or the standards of Section 20.6.2.3103 NMAC are being or may be violated. This may include a determination that structural controls and/or management practices approved under this Discharge Permit are not protective of ground water quality, and that more stringent requirements to protect and/or remediate ground water quality may be required by NMED. These requirements may include: expanding disposal areas; changing waste management practices; expanding monitoring requirements; installing an advanced treatment system; and/or implementing abatement of water pollution.

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 abbreviations may be used in this Discharge Permit:

Abbreviation	Explanation	Abbreviation	Explanation
BOD ₅	biochemical oxygen demand (5-day)	NTU	nephelometric turbidity units
CFR	Code of Federal Regulations	Org	organisms
Cl	chloride	TDS	total dissolved solids
LADS	land application data sheet(s)	TKN	total Kjeldahl nitrogen
mg/L	milligrams per liter	total nitrogen	TKN+NO ₃ -N
mL	milliliters	TRC	Total Residual Chlorine
NMAC	New Mexico Administrative Code	TSS	total suspended solids
NMED	New Mexico Environment Department	WQA	New Mexico Water Quality Act
NMSA	New Mexico Statutes Annotated	WQCC	Water Quality Control Commission
NO ₃ -N	nitrate-nitrogen		

II. FINDINGS

In issuing this Discharge Permit, NMED finds:

1. The permittee is discharging effluent or leachate from the facility so that such effluent or leachate may move directly or indirectly into ground water within the meaning of Section 20.6.2.3104 NMAC.
2. The permittee is discharging effluent or leachate from the facility so that such effluent or leachate 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.
3. The discharge from the facility is not subject to any of the exemptions of Section 20.6.2.3105 NMAC.

III. CONDITIONS

The following conditions shall be complied with by the permittee and are enforceable by NMED. The permittee is authorized to discharge water contaminants subject to the following conditions:

OPERATIONAL PLAN

#	Terms and Conditions
1.	The permittee shall implement the following operational plan to ensure compliance with Title 20, Chapter 6, Parts 1 and 2 NMAC. [20.6.2.3106.C NMAC, 20.6.2.3107 NMAC]
2.	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. [20.6.2.3101 NMAC, 20.6.2.3103 NMAC]
3.	The permittee is authorized to discharge up to 9,880 gpd of domestic wastewater to six existing septic tank/leachfield systems, and eight septic tank/leachfield systems to be designed. Wastewater from the kitchen flows through a grease interceptor prior to being discharged to one of the septic tank/leachfield systems. [20.6.2.3104 NMAC, 20.6.2.3106 NMAC]
4.	The permittee is authorized to install up to eight new septic tank/leachfield systems for eight new houses in the northwest quarter of the facility. The septic tank/leachfield systems shall be designed, constructed, and sized in accordance with the current Liquid Waste Disposal and Treatment Regulations (20.7.3 NMAC). Information on of the proposed septic tank/leachfield systems shall be submitted to NMED at least 90 days prior to installation, and shall include the design flow of the system, a site map showing the location of the proposed system, schematic diagrams of the proposed septic tank/leachfield systems, and details of construction, materials, and components to be used. As-built schematic diagrams of the septic tank(s), leachlines, and system capacity calculations shall be submitted to NMED within 30 days of installation. [20.6.2.3109 NMAC]

MONITORING, REPORTING, AND OTHER REQUIREMENTS

#	Terms and Conditions
5.	The permittee shall conduct the following monitoring, reporting, and other requirements listed below. [20.6.2.3107 NMAC]
6.	METHODOLOGY - Unless otherwise approved in writing by NMED, the permittee shall conduct sampling and analysis in accordance with the most recent edition of the following documents: <ul style="list-style-type: none"> a) American Public Health Association, Standard Methods for the Examination of Water and Wastewater (18th, 19th or current); b) U.S. Environmental Protection Agency, Methods for Chemical Analysis of Water and Waste; c) U.S. Geological Survey, Techniques for Water Resources Investigations of the U.S. Geological Survey; d) American Society for Testing and Materials, Annual Book of ASTM Standards, Part 31.Water; e) U.S. Geological Survey, et al., National Handbook of Recommended Methods for Water Data Acquisition; f) Methods of Soil Analysis: Part 1. Physical and Mineralogical Methods; Part 2. Microbiological and Biochemical Properties; and Part 3. Chemical Methods, American

	<p>Society of Agronomy. [20.6.2.3107.B NMAC]</p>
7.	<p>The permittee shall submit semi-annual monitoring reports to NMED by the 1st of February and August each year.</p> <p>Semi-annual monitoring shall be performed during the following periods:</p> <ul style="list-style-type: none"> • January 1st through June 30th (first half) – report due by August 1st; and • July 1st through December 31st (second half) – report due by February 1st. <p>Monitoring requirements detailed in this Discharge Permit are summarized on the sheet titled <i>Cover Page for Discharge Permit Monitoring Reports</i>. The permittee shall complete and attach a copy of the enclosed <i>Cover Page for Discharge Permit Monitoring Reports</i> to each monitoring report submitted. NMED recommends that the permittee use the monitoring report form provided to compile and submit the monitoring data. The permittee shall provide copies of all laboratory reports with the monitoring reports. [20.6.2.3107 NMAC]</p>
8.	<p>Prior to discharging to any septic tank/leachfield system in the northwest quarter, the permittee shall install one totalizing flow meter on the facility's water supply well (located in the northwest quarter) to estimate the volume of wastewater discharged to the septic tank/leachfield systems in the northwest quarter. Confirmation of meter installation(s), type, calibration and locations shall be submitted to NMED prior to discharging from the septic tank/leachfield systems in the northwest quarter. [20.6.2.3109 NMAC]</p>
9.	<p>The permittee shall estimate the volume of wastewater discharged monthly to the septic tank/leachfield system(s) by recording the monthly meter readings for the facility's water supply well(s) (ie, water supply wells on the northeast and northwest quarter) and calculating the monthly water usage. The permittee shall make note of any significant uses of the water during each month, such as irrigation or evaporative cooling, that do not contribute to the wastewater system. The monthly meter readings, calculated water usage, notes and estimated volume of wastewater discharged shall be submitted to NMED in the semi-annual monitoring reports. The water supply meter(s) shall be kept operational at all times. [20.6.2.3107.A(1) NMAC, 20.6.2.3109.H(1) NMAC]</p>
10.	<p>The permittee shall sample wastewater on an annual basis for TKN. The wastewater samples shall be collected from two or three septic tanks each year, rotating among ST-1 through ST-6. The permittee shall incorporate new septic tanks into the rotational sampling schedule such that all tanks are sampled during each five year permit term. Analytical results shall be submitted to NMED in the monitoring report due by February 1 of each year. [20.6.2.3107 NMAC]</p>
11.	<p>The permittee shall inspect the grease interceptor on a quarterly basis and pump as needed. Inspection records shall be kept on-site. The inspection records and pumping invoices shall be submitted to NMED in the semi-annual monitoring reports. [20.6.2.3109 NMAC]</p>
12.	<p>The permittee shall inspect the septic tanks semi-annually for the accumulation of scum and solids. In the event that the scum layer exceeds three inches or the settled solids occupy 50% of the tank or more, the contents of the tanks shall be pumped by a licensed hauler. The inspection records and pumping invoices shall be submitted to NMED in the semi-annual monitoring reports. [20.6.2.3107 NMAC]</p>

13.	The permittee shall visually inspect the area above the leachfields semi-annually to ensure proper maintenance. Any conditions that indicate damage to the leachfield(s) shall be corrected. Such conditions include, but are not limited to erosion damage, animal activity/damage, woody shrubs, or evidence of seepage. The inspection records shall be submitted to NMED in the semi-annual monitoring reports. [20.6.2.3107 NMAC]
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CONTINGENCY PLAN

#	Terms and Conditions
14.	In the event that ground water standards are violated during the term of this Discharge Permit, upon closure of the facility or during the implementation of post-closure requirements, the permittee shall submit to NMED a corrective action plan that proposes measures to mitigate damage from the discharge including, at a minimum, source control measures and an implementation schedule. The permittee may be required to abate water pollution pursuant to Sections 20.6.2.4000 through 20.6.2.4115 NMAC, if the corrective action plan will not result in compliance with the standards and requirements set forth in Section 20.6.2.4103 NMAC within 180 days of confirmation of ground water contamination. [20.6.2.1203 NMAC, 20.6.2.4105.A(8) NMAC]
15.	In the event of a spill or release that is not authorized under this Discharge Permit, the permittee shall initiate the notifications and corrective actions as required in Section 20.6.2.1203 NMAC. The permittee shall take immediate corrective action to contain and remove or mitigate the damage caused by the discharge. Within 24 hours after discovery of the discharge, the permittee shall verbally notify NMED and provide the information required by Paragraph (1) of Subsection A of 20.6.2.1203 NMAC. Within 7 days of discovering the discharge, the permittee shall submit a written report to NMED verifying the oral notification and providing any additional information or changes. The permittee shall submit a corrective action report within 15 days after discovery of the discharge. [20.6.2.1203 NMAC]
16.	In the event that an inspection of the leachfield reveals failure, the permittee shall enact the following contingency plan: <ol style="list-style-type: none"> a) Within 24 hours of the discovered failure, the permittee shall: <ul style="list-style-type: none"> • restrict public access to the area; • take immediate actions to stop/reduce the system failure or impacts from it; • disinfect contaminated soil and other materials; and • notify NMED of the failure including information on which system failed, the size/volume of the discharge resulting from the failure, and the immediate actions taken b) The permittee shall conduct a physical inspection of the treatment and disposal system(s) to identify additional failures. c) Within one week of the discovered failure, the permittee shall submit written notification to NMED of the information obtained for a) and b) above in addition to the following: <ul style="list-style-type: none"> • The names, addresses, and phone numbers of the person in charge of the facility and the owner/operator;

	<ul style="list-style-type: none"> • The name and address of the facility; • The date, time, specific location, and duration of the discharge • The source and the cause of the discharge; • The estimated volume of the discharge; and • All actions taken to mitigate the immediate damage from the discharge since the failure began. <p>d) The permittee shall submit a corrective action plan for NMED approval to address the failure and propose methods of correction. The corrective action plan shall be submitted within 15 days of the discovered failure and shall be implemented immediately upon NMED approval.</p> <p>[20.6.2.1203 NMAC, 20.6.2.3107 NMAC, 20.6.2.3109 NMAC]</p>
17.	<p>In the event NMED or the permittee identifies any other failures of the Discharge Permit or system not specifically noted herein, NMED may require the permittee to develop for NMED approval contingency plans and schedules to cope with the failures.</p> <p>[20.6.2.3107.A(10) NMAC]</p>

CLOSURE PLAN

#	Terms and Conditions
18.	<p>Upon closure of the facility, the permittee shall perform the following closure measures:</p> <ol style="list-style-type: none"> a) Remove or plug all lines conveying wastewater to the septic tank/leachfield system(s) so that a discharge can no longer occur. b) Pump the grease interceptor(s) and septic tank(s) and dispose of pumpings in accordance with all local, state, and federal regulations. c) Backfill the tank(s) with clean fill or sand, or remove from the site. <p>When all post-closure requirements have been met, the permittee may request to terminate the Discharge Permit. [20.6.2.3107.A(11) NMAC]</p>

GENERAL TERMS AND CONDITIONS

#	Terms and Conditions
19.	<p>RECORD KEEPING - The permittee shall maintain at its facility a written record of all data and information related to field measurements, sampling, and analysis conducted pursuant to this Discharge Permit. The following information shall be recorded and shall be made available to NMED upon request:</p> <ol style="list-style-type: none"> a) The dates, exact place and times of sampling or field measurements; b) The name and job title of the individuals who performed each sample collection or field measurement; c) The date of the analysis of each sample; d) The name and address of the laboratory and the name and job title of the person that performed the analysis of each sample; e) The analytical technique or method used to analyze each sample or take each field measurement; f) The results of each analysis or field measurement, including raw data;

	<p>g) The results of any split sampling, spikes or repeat sampling; and h) A description of the quality assurance and quality control procedures used. [20.6.2.3107.A NMAC]</p>
20.	<p>RECORD KEEPING - The permittee shall maintain a written record of any spills, seeps, and/or leaks of effluent, and of leachate and/or process fluids not authorized by this Discharge Permit. [20.6.2.3107.A NMAC]</p>
21.	<p>RECORD KEEPING - The permittee shall maintain a written record of the operation, maintenance, and repair of all facilities/equipment used to treat, store or dispose of wastewater; to measure flow rates, to monitor water quality, or to collect other data required by this Discharge Permit. This record shall include repair, replacement or calibration of any monitoring equipment and repair or replacement of any equipment used in the permittee's waste or wastewater treatment and disposal system. [20.6.2.3107.A NMAC]</p>
22.	<p>RECORD KEEPING - The permittee shall maintain a written record of the amount of wastewater, effluent, leachate or other wastes discharged pursuant to this Discharge Permit. [20.6.2.3107.A NMAC]</p>
23.	<p>RECORD KEEPING - The permittee shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this Discharge Permit, and records of all data used to complete the application for this Discharge Permit for a period of at least five years from the date of the sample collection, measurement, report or application. This period may be extended by request of the Secretary at any time. [20.6.2.3107.A NMAC]</p>
24.	<p>INSPECTION and ENTRY - The permittee shall allow the Secretary or an authorized representative, upon the presentation of credentials, to:</p> <ol style="list-style-type: none"> a) Enter at regular business hours or at other reasonable times upon the permittee's premises or other location where records must be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation. b) Inspect and copy, during regular business hours or at other reasonable times, any records required to be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation. c) Inspect, at regular business hours or at other reasonable times, any facility, equipment (including monitoring and control equipment or treatment works), practices or operations regulated or required under this Discharge Permit, or under any federal or WQCC regulation. d) Sample or monitor, at reasonable times for the purpose of assuring compliance with this Discharge Permit or as otherwise authorized by the WQA, any effluent, water contaminant, or receiving water at any location before or after discharge. <p>[20.6.2.3107.D NMAC, 74-6-9(B) & (E) WQA]</p>
25.	<p>INSPECTION and ENTRY - Nothing in this Discharge Permit shall be construed as limiting in any way the inspection and entry authority of NMED under the WQA, the WQCC Regulations, or any other applicable law or regulation. [20.6.2.3107 NMAC, 74-6-9(B) & (E) WQA]</p>
26.	<p>DUTY to PROVIDE INFORMATION - The permittee shall furnish to NMED, within a reasonable time, any documents or other information which it may request to determine</p>

	<p>whether cause exists for modifying, terminating and/or renewing this Discharge Permit or to determine compliance with this Discharge Permit. The permittee shall also furnish to NMED, upon request, copies of documents required to be kept by this Discharge Permit. [20.6.2.3107.D NMAC, 74-6-9(B) & (E) WQA]</p>
27.	<p>SPILLS, LEAKS, and OTHER UNAUTHORIZED DISCHARGES - This Discharge Permit authorizes only those discharges specified herein. Any unauthorized discharges violate Section 20.6.2.3104 NMAC and must be reported to NMED and remediated as required by Section 20.6.2.1203 NMAC. [20.6.2.1203 NMAC]</p>
28.	<p>MODIFICATIONS and/or AMENDMENTS - The permittee shall notify NMED of any changes to the permittee's wastewater treatment and disposal system, including any changes in the wastewater flow rate or the volume of wastewater storage, or of any other changes to operations or processes that would result in any significant change in the discharge of water contaminants. The permittee shall obtain NMED's approval, as a modification to this Discharge Permit pursuant to Subsections E, F, or G of 20.6.2.3109 NMAC, prior to any increase in the quantity discharged, or any increase in the concentration of water contaminants discharged, above those levels approved in this Discharge Permit. [20.6.2.3107.C NMAC]</p>
29.	<p>PLANS and SPECIFICATIONS - The permittee shall file plans and specifications with NMED for the construction of a wastewater system and for proposed changes that will change substantially the quantity or quality of the discharge from the system. The permittee shall file plans and specifications prior to the commencement of construction. Changes to the wastewater system having a minor effect on the character of the discharge shall be reported as of January 1 and June 30 of each year to NMED. [20.6.2.1202 NMAC]</p>
30.	<p>CIVIL PENALTIES - Any violation of the requirements and conditions of this Discharge Permit, including any failure to allow NMED staff to enter and inspect records or facilities, or any refusal or failure to provide NMED with records or information, may subject the permittee to a civil enforcement action. Pursuant to WQA 74-6-10(A) and (B), such action may include a compliance order requiring compliance immediately or in a specified time, assessing a civil penalty, modifying or terminating the Discharge Permit, or any combination of the foregoing; or an action in district court seeking injunctive relief, civil penalties, or both. Pursuant to WQA 74-6-10(C) and 74-6-10.1, civil penalties of up to \$15,000 per day of noncompliance may be assessed for each violation of the WQA 74-6-5, the WQCC Regulations, or this Discharge Permit, and civil penalties of up to \$10,000 per day of noncompliance may be assessed for each violation of any other provision of the WQA, or any regulation, standard, or order adopted pursuant to such other provision. In any action to enforce this Discharge Permit, the permittee waives any objection to the admissibility as evidence of any data generated pursuant to this Discharge Permit. [74-6-10 WQA, 74-6-10.1 WQA]</p>
31.	<p>CRIMINAL PENALTIES – Any person who knowingly violates or knowingly causes or allows another person to:</p> <ol style="list-style-type: none"> 1) make any false material statement, representation, certification or omission of material fact in an application, record, report, plan or other document filed, submitted or required to be maintained under the WQA; 2) falsify, tamper with or render inaccurate any monitoring device, method or record required to be maintained under the WQA; or

	3) fail to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation, is subject to felony charges and shall be sentenced in accordance with the provisions of Section 31-18-15 NMSA 1978. [74-6-10.2(A-F) WQA]
32.	COMPLIANCE WITH OTHER LAWS - Nothing in this Discharge Permit shall be construed in any way as relieving the permittee of the obligation to comply with all applicable federal, state, and local laws, regulations, permits or orders. [20.6.2 NMAC]
33.	RIGHT to APPEAL - The permittee may file a petition for review before the WQCC on this Discharge Permit. Such petition shall be in writing to the WQCC within thirty (30) days of the receipt of this Discharge Permit. Unless a timely petition for review is made, the decision of NMED shall be final and not subject to judicial review. [74-6-5(O) WQA]
34.	TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this permitted facility or any portion thereof, the permittee shall notify the proposed transferee in writing of the existence of this Discharge Permit and include a copy of this Discharge Permit with the notice. The permittee shall deliver or send by certified mail to NMED a copy of the notification and proof that such notification has been received by the proposed transferee. [20.6.2.3111 NMAC]
35.	TERM - Pursuant to WQA 74-6-5(I) and Subsection H of 20.6.2.3109 NMAC, the term of this Discharge Permit is five years from its effective date. To renew this Discharge Permit, the permittee must submit an application for renewal at least 180 days before the termination date. [20.6.2.3109.H NMAC, 74-6-5(I) WQA]
36.	Payment of permit fees is due at the time of Discharge Permit approval. Permit fees shall be paid in a single payment or shall be paid in equal installments on a yearly basis over the term of the Discharge Permit. Single payments shall be remitted to NMED no later than 30 days after the Discharge Permit effective date. Initial installment payments shall be remitted to NMED no later than 30 days after the Discharge Permit effective date; subsequent installment payments shall be remitted to NMED no later than the anniversary of the Discharge Permit effective date. An approved Discharge Permit shall be suspended or terminated if the facility fails to remit an installment payment by its due date. [20.6.2.3114.F NMAC, 74-6-5(K) WQA]

EFFECTIVE DATE: **effective date**
 EXPIRATION DATE: **expiration date**

WILLIAM C. OLSON
 Chief, Ground Water Quality Bureau
 New Mexico Environment Department