

**GROUND WATER DISCHARGE PERMIT RENEWAL**  
**Los Alamos County-White Rock Wastewater Treatment Facility, DP-907**

**I. INTRODUCTION**

The New Mexico Environment Department (NMED) issues this Discharge Permit Renewal (Discharge Permit), DP-907, to Los Alamos County (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 Los Alamos County-White Rock Wastewater Treatment Facility (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 820,000 gallons per day (gpd) of domestic wastewater from the Community of White Rock is treated in a municipal treatment facility and is discharged to Canada del Buey pursuant to a NPDES permit and/or reused to irrigate approximately 28.81 acres of landscape at Overlook Park. The discharge contains water contaminants or toxic pollutants which may be elevated above the standards of Section 20.6.2.3103 NMAC. The facility and landscape areas are located on Overlook Road in White Rock, in Section 9, T18N, R07E, Los Alamos Count. Ground water most likely to be affected is at a depth of approximately 563 feet and has a total dissolved solids concentration of approximately 133 milligrams per liter.

The original Discharge Permit was issued on February 5, 1993 and subsequently renewed and/or modified on May 12, 1999 and February 3, 2005. The permittee's application consists of the materials submitted by G. Pete Padilla received on June 15, 2009 and previously submitted materials as applicable. 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 land application 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 <sub>5</sub>	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 <sub>3</sub> -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 <sub>3</sub> -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 820,000 gallons per day of treated domestic wastewater from a municipal treatment facility which consists of grit removal, two primary clarifiers, two trickling filters, two secondary clarifiers, and chlorination. Reclaimed wastewater gravity flows to a synthetically lined storage lagoon and is used to irrigate 28.09 acres of athletic fields, amphitheater grounds, and grasslands at Overlook Park, used to irrigate 0.72 acres of landscape at the wastewater treatment facility, and used for wash and process water at the wastewater treatment facility. Treated wastewater is dechlorinated and discharged to Canada del Buey in accordance with NPDES Permit No. NM0020133. Grit and rags are discharged to a drying bed and hauled off-site to the Los Alamos County Landfill. Sludge/solids are digested in primary and secondary anaerobic digesters, discharged to sludge drying beds, stored at the facility in a lined storage pad and hauled off-site to for further stabilization, composting and/or disposal pursuant to state and federal regulations. [20.6.2.3104 NMAC, 20.6.2.3106 NMAC ]																								
4.	Reclaimed wastewater discharged after the chlorine contact chamber shall not exceed the following limitations: <table border="1" data-bbox="245 1125 1416 1398"> <thead> <tr> <th>Test</th> <th>30-day geometric mean</th> <th>30-day average</th> <th>maximum</th> </tr> </thead> <tbody> <tr> <td>Fecal coliform bacteria:</td> <td><b>100 Org/100 mL</b></td> <td>N/A</td> <td><b>200 Org/100 mL</b></td> </tr> <tr> <td>BOD<sub>5</sub>:</td> <td>N/A</td> <td><b>30 mg/L</b></td> <td><b>45 mg/L</b></td> </tr> <tr> <td>TSS:</td> <td>N/A</td> <td><b>30 mg/L</b></td> <td><b>45 mg/L</b></td> </tr> <tr> <td>TRC:</td> <td>N/A</td> <td><b>Monitor Only</b></td> <td><b>Monitor Only</b></td> </tr> <tr> <td>TN</td> <td>N/A</td> <td>N/A</td> <td><b>30 mg/L</b></td> </tr> </tbody> </table> <p>[20.6.2.3109 NMAC]</p>	Test	30-day geometric mean	30-day average	maximum	Fecal coliform bacteria:	<b>100 Org/100 mL</b>	N/A	<b>200 Org/100 mL</b>	BOD <sub>5</sub> :	N/A	<b>30 mg/L</b>	<b>45 mg/L</b>	TSS:	N/A	<b>30 mg/L</b>	<b>45 mg/L</b>	TRC:	N/A	<b>Monitor Only</b>	<b>Monitor Only</b>	TN	N/A	N/A	<b>30 mg/L</b>
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5.	The permittee shall apply reclaimed wastewater to up to 28.81 acres of landscape, athletic fields and grassland. The amount of total nitrogen applied in the wastewater shall not exceed 200 pounds per acre per year. Nitrogen content shall not be adjusted to account for volatilization or mineralization processes. Wastewater shall be distributed evenly over the entire area of application. Excessive ponding shall be prevented. [20.6.2.3109 NMAC]																								
6.	The permittee shall maintain fences around the wastewater treatment facility to control public access. The fences shall be constructed in a manner which prevents access by the general public and animals such as dogs (e.g., chain link or field fencing) and shall be maintained throughout the term of this Discharge Permit. [20.6.2.3109 NMAC]																								

7.	<p>The permittee shall maintain signs at the facility entrance and other areas where public contact is possible indicating that the water is not potable. All signs shall remain visible and legible for the term of this Discharge Permit. [20.6.2.3109 NMAC]</p>
8.	<p>Within 120 days of the effective date of this Discharge Permit (by DATE), the permittee shall survey the land application areas to a U.S. Geological Survey (USGS) or other permanent benchmark and shall submit an up-to-date scaled map (or maps) of the entire facility to NMED. The map (or maps) shall be drawn to a scale such that all necessary information is plainly shown and labeled and shall include:</p> <ul style="list-style-type: none"> <li>• A graphical scale;</li> <li>• A north arrow;</li> <li>• The effective date of the map;</li> <li>• All land application areas receiving reclaimed wastewater, including distribution pipelines, and backflow prevention devices; and</li> <li>• All domestic, public water supply and monitoring wells within 1,000 feet of the discharge site.</li> </ul> <p>Survey data shall include northing, easting and elevation to the nearest hundredth of a foot or in accordance with the "Minimum Standards for Surveying in New Mexico" (12.8.2 NMAC). A survey elevation shall be established with a permanent marking indicating the point of survey. The survey shall be completed and certified by a licensed New Mexico professional surveyor.</p> <p>If subsurface structures cannot be directly shown due to limited information regarding their exact location (e.g. a pre-existing leachfield), they shall be identified on the map in a schematic format and labeled "not-to-scale". [20.6.2.3106 NMAC, 20.6.2.3109 NMAC]</p>
9.	<p>Within 60 days of the effective date of this Discharge Permit (by DATE), the permittee shall measure the thickness of the sludge blanket in the synthetically lined storage lagoon. If sludge accumulation exceeds one-third of the maximum liquid depth of a lagoon at any location within the lagoon, the permittee shall remove the sludge to a depth of less than six inches throughout the lagoon in a manner that is protective of the lagoon liner. Removed sludge shall be contained, transported, and disposed of in accordance with all local, state, and federal (40 CFR Part 503) regulations. A report detailing the sludge depth measurement and disposal of excess accumulated solids (if any disposal occurs) shall be submitted to NMED within 160 days of the effective date of this Discharge Permit (by DATE). [20.6.2.3109 NMAC]</p>
10.	<p>The permittee shall remove solids/sludge from the treatment system as needed. The solids/sludge shall be digested in primary and secondary heated anaerobic digesters, discharged to sludge drying beds, stored in a lined storage pad at the facility, transported off site and disposed of in accordance with all local, state, and federal (40 CFR Part 503) regulations. Records of solids transported from the facility a copy of the Discharge Monitoring Reports required by 40 CFR Part 503 shall be submitted annually to NMED in the monitoring report due May 1<sup>st</sup> of each year. [20.6.2.3109 NMAC]</p>

11.	<p>The storage lagoon liner shall be maintained in such a manner as to avoid conditions which could affect the structural integrity of the lagoon and/or lagoon liner. Such conditions include, but are not limited to:</p> <ul style="list-style-type: none"> <li>• Erosion damage;</li> <li>• Animal activity/damage;</li> <li>• The presence of vegetation, such as; aquatic plants, weeds, woody shrubs or trees growing within five feet of the lagoon edge or within the lagoon itself;</li> <li>• Evidence of seepage;</li> <li>• Evidence of berm subsidence; and/or</li> <li>• The presence of large pieces or large quantities of debris in the lagoon.</li> </ul> <p>The permittee shall visually inspect the lagoon and surrounding berms on a monthly basis to ensure proper maintenance. Vegetation growing around the lagoons shall be routinely controlled by mechanical removal in a manner that is protective of the lagoon liner. Any evidence of damage to the lagoon berm or liner shall be reported to NMED immediately upon discovery. [20.6.2.3107 NMAC]</p>
12.	<p>The permittee shall maintain a minimum of two feet of freeboard between the liquid level in the lagoon and the top elevation of the lagoon liner at all times. [20.6.2.3107 NMAC, 20.6.2.3109 NMAC]</p>
13.	<p>The permittee shall utilize operators, certified by the State of New Mexico at the appropriate level, to operate the wastewater collection, treatment and disposal systems. All operations and maintenance of all or any part of the wastewater system shall be performed by, or under the direct supervision of, a certified operator. [20.7.4 NMAC]</p>
14.	<p>The permittee shall meet the following general requirements for above ground use of reclaimed domestic wastewater:</p> <ol style="list-style-type: none"> <li>a) The permittee shall maintain signs in English and Spanish at above ground areas receiving reclaimed wastewater. The signs shall be posted at the entrance and/or at other locations where public access may occur and shall state: <b>NOTICE: THIS AREA IS IRRIGATED WITH RECLAIMED WASTEWATER - DO NOT DRINK. AVISO: ESTA ÁREA ESTÁ REGADA CON AGUAS NEGRAS RECOBRADAS - NO TOMAR.</b> Alternate wording and/or graphics may be submitted for NMED approval. All signs shall remain visible and legible for the term of this Discharge Permit.</li> <li>b) The reclaimed wastewater systems shall have no direct or indirect cross connections with potable water systems pursuant to the latest revision of the New Mexico Plumbing and Mechanical Code.</li> <li>c) Above ground use of reclaimed wastewater shall not result in excessive standing or pooling of wastewater, and shall be applied at the appropriate consumptive water use rate. Irrigation shall not be conducted at times when the receiving area is saturated or frozen.</li> <li>d) The discharge of reclaimed wastewater shall be confined to the area designated and approved for receiving the wastewater.</li> <li>e) All water supply wells within 200 feet of a wetted irrigation area shall have adequate well head construction and irrigation shall be managed to ensure protection of ground water quality.</li> </ol>

	<p>f) All existing accessible portions of the reclaimed wastewater system shall be colored purple or clearly labeled as being part of a reclaimed wastewater distribution system. All piping, valves and outlets that are installed during the term of this Discharge Permit shall be color-coded in purple pursuant to the latest revision of the New Mexico Plumbing and Mechanical Code to differentiate piping or fixtures used to convey reclaimed wastewater from piping or fixtures used for potable or other water. All valves, outlets, and sprinkler heads used in reclaimed wastewater systems shall be of a type that can only be operated by authorized personnel. [20.6.2.3109 NMAC]</p>
15.	<p>The permittee shall meet the following setbacks, access restrictions and equipment requirements for spray irrigation using Class 1B reclaimed domestic wastewater:</p> <ul style="list-style-type: none"> <li>a) A minimum 100-foot set-back shall be maintained between any dwellings or occupied establishments and the edge of any area receiving reclaimed wastewater.</li> <li>b) Irrigation shall be postponed at times when windy conditions may result in drift of reclaimed wastewater outside the designated area of application.</li> <li>c) Whenever reclaimed wastewater is used in areas with public access it shall be applied at times and in a manner that minimizes public contact.</li> <li>d) The spray irrigation system shall utilize only low trajectory spray nozzles.</li> </ul> <p>[20.6.2.3109 NMAC]</p>
16.	<p>Within 60 days of the effective date of the Discharge Permit (by DATE), the permittee shall submit the specifications of the backflow prevention device installed at Overlook Park to protect the potable water system from reclaimed water, pumped through the irrigation system, to NMED. With the exception of a physical air gap, backflow prevention devices shall be tested by a certified backflow assembly tester at the time of installation, repair or relocation and at least on an annual basis thereafter and shall be maintained functional at all times. Inspection and maintenance records for the backflow prevention device shall be kept on-site and available for NMED review upon request. [20.6.2.3109 NMAC]</p>

**MONITORING, REPORTING, AND OTHER REQUIREMENTS**

#	Terms and Conditions
17.	<p>The permittee shall conduct the following monitoring, reporting, and other requirements listed below. [20.6.2.3107 NMAC]</p>
18.	<p><b>METHODOLOGY</b> - 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:</p> <ul style="list-style-type: none"> <li>a) American Public Health Association, Standard Methods for the Examination of Water and Wastewater (18th, 19th or current);</li> <li>b) U.S. Environmental Protection Agency, Methods for Chemical Analysis of Water and Waste;</li> <li>c) U.S. Geological Survey, Techniques for Water Resources Investigations of the U.S. Geological Survey;</li> <li>d) American Society for Testing and Materials, Annual Book of ASTM Standards, Part 31.Water;</li> </ul>

	<p>e) U.S. Geological Survey, et al., National Handbook of Recommended Methods for Water Data Acquisition; or</p> <p>f) Methods of Soil Analysis: Part 1. Physical and Mineralogical Methods and Part 2. Chemical and Microbiological Properties, American Society of Agronomy.</p> <p>[20.6.2.3107.B NMAC]</p>
<p>19.</p>	<p>The permittee shall submit quarterly monitoring reports to NMED for the most recently completed quarterly period by the 1<sup>st</sup> of February, May, August and November of each year.</p> <p>Quarterly monitoring shall be performed during the following periods:</p> <ul style="list-style-type: none"> <li>• January 1<sup>st</sup> through March 31<sup>st</sup> (first quarter) – <b>due by May 1<sup>st</sup></b>;</li> <li>• April 1<sup>st</sup> through June 30<sup>th</sup> (second quarter) – <b>due by August 1<sup>st</sup></b>;</li> <li>• July 1<sup>st</sup> through September 30<sup>th</sup> (third quarter) – <b>due by November 1<sup>st</sup></b>; and</li> <li>• October 1<sup>st</sup> through December 31<sup>st</sup> (fourth quarter) – <b>due by February 1<sup>st</sup></b>.</li> </ul> <p>Monitoring requirements detailed in this Discharge Permit are summarized on the sheet titled <i>Summary of Required Actions, Monitoring and Reporting</i>. [20.6.2.3107 NMAC]</p>
<p>20.</p>	<p>The permittee shall measure the totalized, daily average and peak volume of wastewater discharged to the treatment facility each month using a primary measuring device equipped with head sensing, totalizing and chart recording/data logging mechanisms. The totalized, daily average and peak influent discharge volumes for each month shall be submitted to NMED in the quarterly monitoring reports. The flow meter shall be calibrated against the primary measuring device to within +/- 10% of actual flow and kept operational at all times. [20.6.2.3107 NMAC]</p>
<p>21.</p>	<p>The permittee shall measure and record all discharges from the wastewater treatment system to Overlook Park using the totalizing flow meters on two transfer lines located after the storage lagoon and prior to the land application areas on a monthly basis. The permittee shall maintain a monthly log showing the totalizing meter readings at the beginning and at the end of each month, and the calculated total volume of each monthly discharge. A summary of the log entries and the measured monthly discharge volumes for each transfer line shall be submitted to NMED in the quarterly monitoring reports. The volumes discharged for the irrigation of Overlook Park, calculated based upon the log, shall be used to calculate nitrogen loading on the LADS. The flow meters shall be calibrated to within +/- 10% of actual flow and kept operational at all times.</p> <p>[20.6.2.3107.A(1) NMAC, 20.6.2.3109.C(3) NMAC]</p>
<p>22.</p>	<p>The permittee shall sample reclaimed wastewater after chlorination on a monthly basis and analyze the samples for NO<sub>3</sub>-N, TKN, TDS, and Cl. Samples shall be properly prepared, preserved, transported and analyzed in accordance with the methods authorized in this Discharge Permit. Analytical results shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3107 NMAC]</p>
<p>23.</p>	<p>The permittee shall perform the following analyses on reclaimed wastewater samples collected after chlorination using the sampling method and frequency indicated:</p> <ul style="list-style-type: none"> <li>• Fecal coliform bacteria: grab sample at peak daily flow once per week;</li> <li>• BODs: six-hour composite sample once per two weeks;</li> </ul>

	<ul style="list-style-type: none"> <li>• TSS: six-hour composite sample once per two weeks;</li> <li>• The permittee shall record TRC concentrations whenever fecal coliform samples are collected.</li> </ul> <p>Samples shall be properly prepared, preserved, transported and analyzed in accordance with the methods authorized in this Discharge Permit. Analytical results and a copy of the log of TRC concentrations shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3107 NMAC]</p>
24.	The permittee shall complete land application data sheets (LADS) quarterly that document the amount of nitrogen applied to Overlook Park and to the facility landscape. The LADS (copy enclosed) shall reflect the nitrogen concentration from the most recent wastewater analysis and the measured discharge volumes for each month. The LADS or a statement that no land application occurred shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3107 NMAC]
25.	The permittee shall keep a log of all additional fertilizer applied to Overlook Park. The log shall contain the date of fertilizer application, the type and nutrient concentration of the fertilizer, and the amount of fertilizer applied to each acre of the irrigation site. A summary of the log entries shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3107 NMAC]

**SPECIAL STUDY**

#	Terms and Conditions
26.	The permittee shall prepare a Preliminary Engineering Report (PER) within three years of the effective date of this Discharge Permit (by DATE) and submit it for NMED's approval. The PER shall consist of an evaluation of the condition of the existing facility's structures, mechanical components, capacity, reliability and compliance with current and anticipated future regulatory requirements, including an evaluation of a facility upgrade or replacement that can achieve an effluent total nitrogen limit of 10 mg/L. The PER shall be performed and certified by a professional engineer licensed to practice in New Mexico. A PER that has been conducted on this facility for these purposes within the last 3 years can be revised/updated and substituted for a new PER. [20.6.2.3107.A NMAC]

**CONTINGENCY PLAN**

#	Terms and Conditions
27.	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]

28.	<p>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.</p> <p>[20.6.2.1203 NMAC]</p>
29.	<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>
30.	<p>In the event that analytical results of a quarterly treated wastewater sample exceed the total nitrogen limitation set in this Discharge Permit, the permittee shall analyze another sample within 15 days to confirm the initial results. Upon confirmation that the limitation is being exceeded, the permittee shall enact the following contingency plan:</p> <ul style="list-style-type: none"> <li>a) NMED shall be notified immediately that the contingency plan is being enacted.</li> <li>b) Wastewater sampling and analysis shall be done on a monthly basis.</li> <li>c) The permittee shall examine the operation and maintenance log, required under the Record Keeping section of this permit, for improper operational procedures. The permittee shall also conduct a physical inspection of the treatment system to detect abnormalities. Any abnormalities discovered shall be corrected.</li> <li>d) If analytical results from wastewater sampling continue to exceed the limitation, the permittee shall submit a corrective action plan for NMED approval to modify operational procedures and/or upgrade the treatment process to achieve the effluent limit. The plan shall be submitted within 90 days of the original confirmation of exceedance of the effluent limitation. The corrective action plan shall be implemented immediately upon NMED approval.</li> </ul> <p>When analytical results from three consecutive months of wastewater sampling do not exceed the limitation, the permittee shall return to quarterly monitoring.</p> <p>[20.6.2.3107.A(10) NMAC]</p>
31.	<p>In the event that analytical results of a reclaimed domestic wastewater sample exceed any of the maximum limitations for BOD<sub>5</sub>, TSS, or fecal coliform bacteria set by this Discharge Permit, the permittee shall re-sample within 24 hours of becoming aware of the exceedance to confirm the initial results. If the exceedance of any of the maximum limitations is confirmed, or if any of the 30-day average limitations is exceeded, the permittee shall enact the following contingency plan:</p> <ul style="list-style-type: none"> <li>a) NMED shall be notified immediately that the contingency plan is being enacted.</li> <li>b) The permittee shall immediately cease discharging reclaimed domestic wastewater to the storage lagoon and land application area.</li> <li>c) The permittee shall examine the operation and maintenance log, required under the Record Keeping section of this Discharge Permit, for improper operational procedures. The permittee shall also conduct a physical inspection of the treatment system to detect</li> </ul>

	<p>abnormalities. Any abnormalities discovered shall be corrected.</p> <p>When the analytical results from samples of reclaimed domestic wastewater, sampled as required by this Discharge Permit, no longer exceed any of the maximum limitations, the permittee may resume discharging reclaimed wastewater to the storage lagoon land application area.</p> <p>If a facility is required to enact the contingency plan more than two times in a calendar year, the permittee shall submit a corrective action plan for NMED approval to modify operational procedures and/or upgrade the treatment process to achieve consistent compliance with the maximum and 30-day average limitations. The plan shall be submitted within 60 days of the second occurrence and shall be implemented immediately upon NMED approval. Additional sampling of stored reclaimed wastewater prior to discharge to the land application area may be required as part of the corrective action plan. [20.6.2.3107.A(10) NMAC]</p>
32.	<p>In the event that LADS show that the amount of nitrogen in wastewater applied exceeds 200 pounds per acre per year, the permittee shall submit a corrective action plan for the reduction of nitrogen loading to the land application area. The plan shall be submitted to NMED for approval within 90 days of the end of the monitoring period in which the exceedance occurred. The corrective action plan shall be implemented within 30 days of NMED approval. [20.6.2.3107.A(10) NMAC]</p>
33.	<p>In the event that a minimum of two feet of freeboard cannot be maintained in the lagoon at all times, the permittee shall submit a corrective action plan for NMED approval within 30 days of the date when the two feet of freeboard limit was initially exceeded. [20.6.2.3107 NMAC, 20.6.2.3109 NMAC]</p>
34.	<p>In the event that inspection findings reveal significant damage likely to affect the ability of the lined lagoon to contain contaminants, the permittee shall submit a corrective action plan for the repair or replacement of the lagoon liner to NMED for approval within 30 days of discovery by the permittee or following notification from NMED that significant liner damage is evident. [20.6.2.3107 NMAC, 20.6.2.3109 NMAC]</p>

**CLOSURE PLAN**

#	Terms and Conditions
35.	<p>Upon closure of the facility, the permittee shall perform the following closure measures:</p> <ul style="list-style-type: none"> <li>a) Remove or plug all lines leading to the treatment system, storage lagoon and land application areas so that a discharge can no longer occur.</li> <li>b) Drain and/or evaporate all liquids from all treatment units and the storage lagoon and dispose of all sludge in accordance with all local, state, and federal (40 CFR Part 503) regulations.</li> <li>c) Remove or demolish all tanks and re-grade area with clean fill to blend with surface topography and prevent ponding.</li> <li>d) Perforate or remove the storage lagoon liner and re-grade the lagoon with clean fill to blend with surface topography and prevent ponding.</li> </ul> <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
36.	<p><b>RECORD KEEPING</b> - 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> <ul style="list-style-type: none"> <li>a) The dates, exact place and times of sampling or field measurements;</li> <li>b) The name and job title of the individuals who performed each sample collection or field measurement;</li> <li>c) The date of the analysis of each sample;</li> <li>d) The name and address of the laboratory and the name and job title of the person that performed the analysis of each sample;</li> <li>e) The analytical technique or method used to analyze each sample or take each field measurement;</li> <li>f) The results of each analysis or field measurement, including raw data;</li> <li>g) The results of any split sampling, spikes or repeat sampling; and</li> <li>h) A description of the quality assurance and quality control procedures used.</li> </ul> <p>[20.6.2.3107.A NMAC]</p>
37.	<p><b>RECORD KEEPING</b> - 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>
38.	<p><b>RECORD KEEPING</b> - 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.</p> <p>[20.6.2.3107.A NMAC]</p>
39.	<p><b>RECORD KEEPING</b> - The permittee shall maintain a written record of the amount of wastewater, effluent, leachate or other wastes discharged pursuant to this Discharge Permit.</p> <p>[20.6.2.3107.A NMAC]</p>
40.	<p><b>RECORD KEEPING</b> - 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>
41.	<p><b>INSPECTION and ENTRY</b> - The permittee shall allow the Secretary or an authorized representative, upon the presentation of credentials, to:</p> <ul style="list-style-type: none"> <li>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.</li> <li>b) Inspect and copy, during regular business hours or at other reasonable times, any</li> </ul>

	<p>records required to be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation.</p> <p>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.</p> <p>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> <p>[20.6.2.3107.D NMAC, 74-6-9(B) &amp; (E) WQA]</p>
42.	<p><b>INSPECTION and ENTRY</b> - 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.</p> <p>[20.6.2.3107 NMAC, 74-6-9(B) &amp; (E) WQA]</p>
43.	<p><b>DUTY to PROVIDE INFORMATION</b> - The permittee shall furnish to NMED, within a reasonable time, any documents or other information which it may request to determine 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.</p> <p>[20.6.2.3107.D NMAC, 74-6-9(B) &amp; (E) WQA]</p>
44.	<p><b>SPILLS, LEAKS, and OTHER UNAUTHORIZED DISCHARGES</b> - 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>
45.	<p><b>MODIFICATIONS and/or AMENDMENTS</b> - 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>
46.	<p><b>PLANS and SPECIFICATIONS</b> - 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.</p> <p>[20.6.2.1202 NMAC]</p>
47.	<p><b>CIVIL PENALTIES</b> - 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,</p>

	<p>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>
48.	<p><b>CRIMINAL PENALTIES</b> – Any person who knowingly violates or knowingly causes or allows another person to:</p> <ol style="list-style-type: none"> <li>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;</li> <li>2) falsify, tamper with or render inaccurate any monitoring device, method or record required to be maintained under the WQA; or</li> <li>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]</li> </ol>
49.	<p><b>COMPLIANCE WITH OTHER LAWS</b> - 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]</p>
50.	<p><b>RIGHT to APPEAL</b> - 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]</p>
51.	<p><b>TRANSFER of DISCHARGE PERMIT</b> - 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]</p>
52.	<p><b>TERM</b> - 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]</p>
53.	<p>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</p>

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]
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EFFECTIVE DATE:     effective date  
EXPIRATION DATE:    expiration date

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

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