



MICHELLE LUJAN GRISHAM
GOVERNOR

JAMES C. KENNEY
CABINET SECRETARY

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

October 9, 2024

Jennifer Baca, Engineering Associate
Los Alamos County Department of Utilities
1000 Central Avenue, Suite 130
Los Alamos, New Mexico 87544

RE: Draft Discharge Permit Renewal, DP-814, Los Alamos County Wastewater Treatment Facility

Dear Jennifer Baca:

The New Mexico Environment Department (NMED) hereby provides notice to the Los Alamos County Department of Utilities of the proposed approval of Ground Water Discharge Permit Renewal, DP-814, (copy enclosed), pursuant to Subsection H of 20.6.2.3108 NMAC. NMED will publish notice of the availability of the draft Discharge Permit in the near future for public review and comment and will forward a copy of that notice to you.

Prior to making a final ruling on the proposed Discharge Permit, NMED will allow 30 days from the date the public notice is published in the newspaper for any interested party, including the Discharge Permit applicant, i.e., yourself, to submit written comments and/or a request a public hearing. A hearing request shall set forth the reasons why a hearing is requested. NMED will hold a hearing in response to a timely hearing request if the NMED Secretary determines there is substantial public interest in the proposed Discharge Permit.

Please review the enclosed draft Discharge Permit carefully. Please be aware that this Discharge Permit may contain conditions that require the permittee to implement operational, monitoring, or closure actions by a specified deadline.

Please submit written comments or a request for hearing to my attention at the address below, via email to gerald.knutson@env.nm.us or to pps.general@env.nm.gov, or directly into the NMED Public Comment Portal at <https://nmed.commentinput.com/comment/search>. If NMED does not receive written comments or a request for hearing during the public comment period, the draft Discharge Permit will become final.

SCIENCE | INNOVATION | COLLABORATION | COMPLIANCE

Ground Water Quality Bureau | 1190 Saint Francis Drive, PO Box 5469, Santa Fe, New Mexico 87502-5469
Telephone (505) 827-2900 | www.env.nm.gov/gwqb/

Jennifer Baca
October 9, 2024
Page 2 of 2

Thank you for your cooperation during the review process. Feel free to contact me with any questions at (505) 660-7189.

Sincerely,

Gerald Knutson, Water Resources Professional III

enc: Draft Discharge Permit Renewal, DP-814

cc: Philo Shelton, Utilities Manager, philo.shelton@lacnm.us



**NEW MEXICO
ENVIRONMENT DEPARTMENT**

Ground Water Quality Bureau

1190 Saint Francis Drive / PO Box 5469

Santa Fe, NM 87502-5469

Phone (505) 827-2900 Fax (505) 827-2965

www.env.nm.gov



Draft: October 9, 2024

**GROUND WATER QUALITY BUREAU
DISCHARGE PERMIT
Issued under 20.6.2 NMAC**

Facility Name: Los Alamos County Wastewater Treatment Facility

Discharge Permit Number: DP-814

Facility Location: 3500 Pueblo Canyon Road
Los Alamos, New Mexico

County: Los Alamos

Permittee: Jennifer Baca, Engineering Associate
Los Alamos County Department of Public Utilities

Mailing Address: 1000 Central Avenue, Suite 130
Los Alamos, New Mexico 87544

Facility Contact: Philo Shelton, Utilities Manager

Telephone Number/Email: (505) 662-8133 / philo.shelton@lacnm.us

Permitting Action: Renewal

Permit Issuance Date: DATE

Permit Expiration Date: DATE

NMED Permit Contact: Gerald Knutson, Water Resources Specialist III

Telephone Number/Email: (505) 660-7189 / gerald.knutson@env.nm.gov or
505-827-2900 / pps.general@env.nm.gov

JUSTIN D. BALL
Chief, Ground Water Quality Bureau
New Mexico Environment Department

Date

TABLE OF CONTENTS

I. INTRODUCTION 1

II. FINDINGS 3

III. AUTHORIZATION TO DISCHARGE 3

IV. CONDITIONS 4

A. OPERATIONAL PLAN 4

 Operational Actions with Implementation Deadlines 5

 Operating Conditions 6

B. MONITORING AND REPORTING 9

 Due Dates for Monitoring Reports 10

 Monitoring Actions with Implementation Deadlines 10

 Groundwater Monitoring Conditions 12

 Facility Monitoring Conditions 13

C. CONTINGENCY PLAN 19

D. CLOSURE PLAN 24

 Closure Actions with Implementation Deadlines 24

 Permanent Facility Closure Conditions 24

E. GENERAL TERMS AND CONDITIONS 26

ATTACHMENTS

- Discharge Permit Summary
- New Mexico Environment Department Ground Water Quality Bureau Monitoring Well Construction and Abandonment Guidelines, Revision 1.1, March 2011 (Monitoring Well Guidance)
- Fertilizer Log

I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this groundwater discharge permit Renewal (Discharge Permit or DP-814) to the Los Alamos County Department of Public Utilities (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) Ground and Surface Water Protection 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 Wastewater Treatment Facility (Facility or WWTF) in order to protect groundwater and those segments of surface water gaining from groundwater inflow for present and potential future use as domestic and agricultural water supply and other uses, and to protect public health. It is NMED's determination in issuing this Discharge Permit that the Permittee has met the requirements of Subsection C of 20.6.2.3109 NMAC. The Permittee is responsible for complying with the terms and conditions of this Discharge Permit pursuant to Section 20.6.2.3104 NMAC; failure to do so may result in enforcement action by NMED (20.6.2.1220 NMAC).

Described below are the activities that produce the discharge, the location of the discharge, and the quantity, quality, and flow characteristics.

The Facility receives and treats domestic/municipal wastewater at a volume of up to 1.4 million gallons per day (MGD). The Permittee reuses treated wastewater (reclaimed domestic wastewater) on Los Alamos County property for irrigation. Treated wastewater that is not reclaimed for reuse purposes is discharged to an outfall at Pueblo Canyon in accordance with a National Pollutant Discharge Elimination System (NPDES) Permit.

Data collected from a now dry monitoring well downgradient of the permanently closed Bayo Canyon WWTF documents groundwater contamination attributed to one or more sources from this closed WWTF. The Los Alamos County WWTF is located approximately one-half mile upstream of the closed Bayo Canyon WWTF. Prior to going dry, the monitoring well had exceedances of groundwater quality standards for nitrate-nitrogen according to the criteria of Sections 20.6.2.3101 and 20.6.2.3103 NMAC. This Discharge Permit requires the Permittee to replace the dry monitoring well and continue sampling.

Discharge Permit Location Information:

Physical Address	3500 Pueblo Canyon Road
Nearest Town/City	Los Alamos
Section, Township, Range-WWTF	Section 13, Township 19 North, Range 06 East
Sections, Township, Range-reuse areas	Sections 2, 3, 4, 5, 8, 9, 10, 11, 13, 14, 15, 16, and 17, Township 19 North, Range 06 East
County	Los Alamos

Depth to Groundwater	Approximately 59 feet
Pre-Discharge TDS	692 milligrams per liter (mg/L)

Discharge Permit Issuance History:

Original Permit Issuance	August 29, 1991
Permit Renewal and Modification	July 23, 2002
Permit Renewal and Modification	March 19, 2008
Permit Renewal	June 27, 2014
Permit Renewal and Modification	December 6, 2019

The application (i.e., discharge plan) associated with this Discharge Permit consists of the materials submitted by the Permittee dated June 5, 2024, and materials contained in the administrative record prior to issuance of this Discharge Permit.

The Permittee shall manage the discharge in accordance with all conditions and requirements of this Discharge Permit.

NMED reserves the right to require a Discharge Permit modification in the event NMED determines that the Permittee is or may be violating, or is likely to violate in the future, the requirements of 20.6.2 NMAC or the standards of Section 20.6.2.3103 NMAC. NMED reserves this right pursuant to Section 20.6.2.3109 NMAC. An NMED requirement to modify the Discharge Permit may result from a determination by the department that structural controls and/or management practices approved under this Discharge Permit are insufficiently protective of groundwater quality and human health. NMED reserves the right to require the Permittee to implement abatement of water pollution and remediate groundwater quality.

NMED 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.

This Discharge Permit may use the following acronyms and abbreviations.

Abbreviation	Explanation	Abbreviation	Explanation
BOD ₅	biochemical oxygen demand (5-day)	NMED	New Mexico Environment Department
CAP	Corrective Action Plan	NMSA	New Mexico Statutes Annotated
CFR	Code of Federal Regulations	NO ₃ -N	nitrate-nitrogen
CFU	colony forming unit	NTU	nephelometric turbidity units
Cl	chloride	QA/QC	Quality Assurance/Quality Control
EPA	United States Environmental Protection Agency	TDS	total dissolved solids

Abbreviation	Explanation	Abbreviation	Explanation
gpd	gallons per day	TKN	total Kjeldahl nitrogen
LAA	land application area	total nitrogen	= TKN + NO ₃ -N
LADS	Land Application Data Sheet(s)	TRC	total residual chlorine
mg/L	milligrams per liter	TSS	total suspended solids
mL	milliliters	WQA	New Mexico Water Quality Act
MPN	most probable number	WQCC	Water Quality Control Commission
NMAC	New Mexico Administrative Code	WWTF	Wastewater Treatment Facility

II. FINDINGS

In issuing this Discharge Permit, NMED finds the following.

1. The Permittee is discharging effluent or leachate from the Facility so that such effluent or leachate may move into groundwater of the State of New Mexico that has an existing concentration of 10,000 mg/L or less of TDS, within the meaning of Subsection A of 20.6.2.3101 NMAC, without exceeding standards of 20.6.2.3103 NMAC for any water contaminant.
2. The Permittee is discharging effluent or leachate from the Facility directly or indirectly into groundwater pursuant to this Discharge Permit and Sections 20.6.2.3000 through 20.6.2.3114 NMAC.
3. The discharge from this Facility has the potential to contain water contaminants or toxic pollutants elevated above the standards of Section 20.6.2.3103 NMAC and is not subject to the exemption at Subsection 20.6.2.3105 NMAC.

III. AUTHORIZATION TO DISCHARGE

The Permittee is responsible for ensuring that discharges authorized by this Discharge Permit are consistent with the terms and conditions herein pursuant to 20.6.2.3104 NMAC.

This Discharge Permit authorizes the Permittee to receive and treat up to 1.4 MGD of domestic/municipal wastewater using a WWTF. This Discharge Permit authorizes the Permittee to discharge treated wastewater as reclaimed domestic wastewater for landscape irrigation at the Facility, to a 650,000-gallon storage tank (North Mesa) and a 500,000-gallon storage tank (Group 12) for landscape irrigation of Los Alamos County property and to transfer for temporary uses, as described below.

The Permittee is authorized to discharge reclaimed wastewater for reuse in accordance with this Discharge Permit as follows:

- for spray irrigation of the facility’s landscape (4.25 acres);
- for spray irrigation of the Los Alamos Golf Course (92.89 acres);
- for spray irrigation of the North Mesa Ball Fields (9.67 acres);
- for spray irrigation of the Los Alamos Soccer Field (2.74 acres);
- for spray irrigation of the Los Alamos Middle School (1.6 acres);
- for spray irrigation of the Los Alamos Dog Park (0.77 acres);
- for spray irrigation of future Los Alamos County reuse areas;
- from a hydrant for line flushing; and
- from a hydrant for fire control.

The Permittee is authorized to transfer reclaimed domestic wastewater from a standpipe located at the WWTF for temporary uses that NMED has determined to not require a Discharge Permit including construction projects, dust control, and compost mixing.

Additionally, the Permittee discharges treated wastewater to Pueblo Canyon pursuant to the Facility’s NPDES Permit issued by the Environmental Protection Agency, and aerobically digests sludge/solids, dewateres sludge/solids with a belt press, and haul solids off-site to a sludge composting facility.

[20.6.2.3104 NMAC, Subsection C of 20.6.2.3106 NMAC, Subsection D of 20.6.2.3109 NMAC]

IV. CONDITIONS

NMED issues this Discharge Permit for the discharge of water contaminants subject to the following conditions.

A. OPERATIONAL PLAN

#	Terms and Conditions
1.	The Permittee shall implement the following operational plan to ensure compliance with Title 20, Chapter 6, Parts 2 and 4 NMAC. [Subsection C of 20.6.2.3109 NMAC]
2.	The Permittee shall operate in a manner that does not violate standards and requirements of Sections 20.6.2.3101 and 20.6.2.3103 NMAC. [20.6.2.3101 NMAC, 20.6.2.3103 NMAC, Subsection C of 20.6.2.3109 NMAC]

Operational Actions with Implementation Deadlines

#	Terms and Conditions
3.	<p>Prior to discharging reclaimed domestic wastewater from the Facility to <i>any</i> approved future Los Alamos County reuse area(s), the Permittee shall submit an up-to-date diagram including the following elements:</p> <ul style="list-style-type: none">• all reuse areas and associated distribution pipelines;• all backflow prevention methods/devices; and• all flow measurement devices. <p>The Permittee shall ensure that any element that cannot be directly shown due to its location inside of existing structures, or because it is buried without surface identification, shall be on the diagram in a schematic format and identified as such.</p> <p>[Subsection C of 20.6.2.3106 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>
4.	<p>Prior to discharging reclaimed domestic wastewater to <i>any</i> approved future Los Alamos County reuse area(s), the Permittee shall install the infrastructure necessary to transfer, distribute, and apply reclaimed domestic wastewater. The Permittee shall ensure documentation confirming installation of the distribution system consists of a narrative statement including the system type and location, and the method of backflow prevention employed (if applicable). The Permittee shall provide this documentation to NMED prior to discharging to the reuse area.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
5.	<p>Prior to discharging reclaimed domestic wastewater from the Facility to <i>any</i> approved future Los Alamos County reuse area(s), the Permittee shall post signs in English and Spanish at all reuse locations. The Permittee shall post signs at the entrance to reuse locations and at other locations where public exposure to reclaimed domestic wastewater may occur. The signs shall state: NOTICE: THIS AREA IS IRRIGATED WITH RECLAIMED WASTEWATER - DO NOT DRINK. AVISO: ESTA ÁREA ESTÁ REGADA CON AGUAS NEGRAS RECOBRADAS - NO TOMAR. The Permittee may submit alternate wording and/or graphics to NMED for approval.</p> <p>Documentation of sign installation shall consist of a narrative statement describing the number and location of the signs and date-stamped photographs. The Permittee shall submit the documentation to NMED in the next required periodic monitoring report.</p> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]</p>

Operating Conditions

#	Terms and Conditions																		
6.	<p>The Permittee shall ensure that Class 1B reclaimed domestic wastewater discharged from the UV disinfection unit does not exceed the following discharge limits.</p> <table border="1" data-bbox="365 510 1356 779"> <thead> <tr> <th data-bbox="365 510 662 552"><u>Test</u></th> <th data-bbox="662 510 1003 552"><u>30-day Average</u></th> <th data-bbox="1003 510 1356 552"><u>Maximum</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="365 552 662 604">Total Nitrogen</td> <td data-bbox="662 552 1003 604"></td> <td data-bbox="1003 552 1356 604">10 mg/L</td> </tr> <tr> <td data-bbox="365 604 662 646">E. coli bacteria</td> <td data-bbox="662 604 1003 646">63 CFU or MPN/100 mL</td> <td data-bbox="1003 604 1356 646">126 CFU or MPN/100 mL</td> </tr> <tr> <td data-bbox="365 646 662 699">BOD₅</td> <td data-bbox="662 646 1003 699">30 mg/L</td> <td data-bbox="1003 646 1356 699">45 mg/L</td> </tr> <tr> <td data-bbox="365 699 662 741">TSS OR Turbidity</td> <td data-bbox="662 699 1003 741">30 mg/L</td> <td data-bbox="1003 699 1356 741">45 mg/L</td> </tr> <tr> <td data-bbox="365 741 662 779">UV Transmissivity</td> <td data-bbox="662 741 1003 779">Monitor Only</td> <td data-bbox="1003 741 1356 779">Monitor Only</td> </tr> </tbody> </table> <p data-bbox="293 825 1174 856">[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]</p>	<u>Test</u>	<u>30-day Average</u>	<u>Maximum</u>	Total Nitrogen		10 mg/L	E. coli bacteria	63 CFU or MPN/100 mL	126 CFU or MPN/100 mL	BOD ₅	30 mg/L	45 mg/L	TSS OR Turbidity	30 mg/L	45 mg/L	UV Transmissivity	Monitor Only	Monitor Only
<u>Test</u>	<u>30-day Average</u>	<u>Maximum</u>																	
Total Nitrogen		10 mg/L																	
E. coli bacteria	63 CFU or MPN/100 mL	126 CFU or MPN/100 mL																	
BOD ₅	30 mg/L	45 mg/L																	
TSS OR Turbidity	30 mg/L	45 mg/L																	
UV Transmissivity	Monitor Only	Monitor Only																	
7.	<p>The Permittee shall ensure adherence to the following general requirements for above-ground use of reclaimed domestic wastewater.</p> <ol style="list-style-type: none"> <li data-bbox="293 961 1437 1266">a) The Permittee shall install and maintain signs in English and Spanish at all reuse areas such that they are visible and legible for the term of this Discharge Permit. The Permittee shall post signs at the entrance to reuse areas and at other locations where public exposure to reclaimed domestic wastewater may occur. The signs shall state: NOTICE: THIS AREA IS IRRIGATED WITH RECLAIMED WASTEWATER - DO NOT DRINK. AVISO: ESTA ÁREA ESTÁ REGADA CON AGUAS NEGRAS RECOBRADAS - NO TOMAR. The Permittee may submit alternate wording and/or graphics to NMED for approval. <li data-bbox="293 1276 1437 1413">b) Reclaimed domestic wastewater systems shall have no direct or indirect cross connections with public water systems or irrigation wells pursuant to the latest revision of the New Mexico Plumbing Code (14.8.2 NMAC) and New Mexico Mechanical Code (14.9.2 NMAC). <li data-bbox="293 1423 1437 1560">c) Above-ground use of reclaimed domestic wastewater shall not result in excessive ponding of wastewater and shall not exceed the water consumptive needs of the crop. The Permittee shall not discharge reclaimed domestic wastewater at times when the reuse area is saturated or frozen. <li data-bbox="293 1570 1437 1644">d) The Permittee shall confine discharge of reclaimed domestic wastewater to the reuse area. <li data-bbox="293 1654 1437 1728">e) The Permittee shall not discharge reclaimed domestic wastewater to crops used for human consumption. <li data-bbox="293 1738 1437 1801">f) Water supply wells within 200 feet of a reuse area shall have adequate wellhead construction pursuant to 19.27.4 NMAC. <li data-bbox="293 1812 1437 1885">g) Existing and accessible portions of the reclaimed domestic wastewater distribution system (with the exception of application equipment such as sprinklers or pivots) 																		

#	Terms and Conditions
	<p>shall be colored purple or clearly labeled as being part of a reclaimed domestic wastewater distribution system. Piping, valves, outlets, and other plumbing fixtures shall be purple pursuant to the latest revision of the New Mexico Plumbing Code (14.8.2 NMAC) and New Mexico Mechanical Code (14.9.2 NMAC) to differentiate piping or fixtures used to convey reclaimed wastewater from those intended for potable or other uses.</p> <p>h) Valves, outlets, and sprinkler heads used in reclaimed wastewater systems shall be accessible only to authorized personnel.</p> <p>The Permittee shall demonstrate adherence to these requirements by submitting documentation consisting of narrative statements and date-stamped photographs as appropriate. The Permittee shall submit the documentation to NMED once during the term of this Discharge Permit in the next required periodic monitoring report after the issuance of the Discharge Permit.</p> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1–78, § 74-6–5.D]</p>
8.	<p>The Permittee shall meet the following setbacks, access restrictions and equipment requirements for spray irrigation using Class 1B reclaimed domestic wastewater.</p> <p>a) Maintain a minimum 100-foot setback between any dwellings or occupied establishments and the edge of the reuse area.</p> <p>b) Postpone irrigation using reclaimed domestic wastewater at times when windy conditions may result in drift of reclaimed wastewater outside the reuse area.</p> <p>c) Apply reclaimed domestic wastewater at times and in a manner that minimizes public contact.</p> <p>d) Limit spray irrigation system to low trajectory spray nozzles.</p> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1–78, § 74–5.D]</p>
9.	<p>The Permittee shall meet the following requirements for the temporary above-ground use of reclaimed domestic wastewater.</p> <p>a) Restrict access to the reclaimed domestic wastewater distribution system (standpipe). Transfer of reclaimed domestic wastewater to other users shall only be done by the Permittee or its designee. The Permittee shall prohibit public access to the reclaimed domestic wastewater system.</p> <p>b) Notify all recipients of reclaimed domestic wastewater for temporary uses in writing of the following.</p> <p>i. Reclaimed domestic wastewater is approved only for construction activities; soil compaction; mixing of mortars, slurries, or cement; dust control on roads and construction sites; animal watering; irrigation of non-food crops; and sludge composting.</p>

#	Terms and Conditions
	<ul style="list-style-type: none">ii. Reclaimed domestic wastewater shall be discharged by gravity flow or under low pressure in a manner that minimizes misting and does not result in excessive standing or ponding of wastewater.iii. If the discharge method results in misting, the area(s) receiving the reclaimed domestic wastewater must be 100 feet from areas accessible to the public.iv. The area receiving the discharge must be 300 feet from potable water supply wells.v. Transport vehicles and storage tanks containing reclaimed domestic wastewater shall have signs, in English and Spanish, identifying the contents as non-potable water and advising against consumption.vi. The user shall not apply of reclaimed domestic wastewater at times when the receiving area is saturated or frozen. <p>The Permittee shall maintain a log of all recipients of reclaimed domestic wastewater and shall provide the log to NMED upon request.</p> <p>[20.6.2.3109 NMAC]</p>
10.	<p>The Permittee shall institute a backflow prevention method to protect wells and public water supply systems from contamination by reclaimed domestic wastewater prior to discharging to the reuse area. Backflow prevention shall be achieved by a total disconnect (physical air gap separation between the discharge pipe and the liquid surface at least twice the diameter of the discharge pipe), or by a reduced pressure principal backflow prevention assembly (RP) installed on the line between the fresh water supply wells or public water supply and the reclaimed domestic wastewater delivery system. The Permittee shall maintain backflow prevention at all times.</p> <p>The Permittee shall have RP devices inspected and tested by a certified backflow prevention assembly tester at the time of installation, repair or relocation and at least on an annual basis thereafter. The backflow prevention assembly tester shall have successfully completed a 40-hour backflow prevention course based on the University of Southern California’s Backflow Prevention Standards and Test Procedures, and obtained certification demonstrating completion. The Permittee shall have all malfunctioning RP devices repaired or replaced within 30 days of discovery. The Permittee shall cease using supply lines associated with the RP device until repair or replacement is complete.</p> <p>The Permittee shall maintain copies of the inspection and maintenance records and test results for each RP device associated with the backflow prevention program at a location available for inspection by NMED.</p> <p>[Subsection C of 20.6.2.3109 NMAC]</p>

#	Terms and Conditions
11.	<p>The Permittee shall maintain fences around the Facility to restrict access by the general public and animals. The fences shall consist of a minimum of six-foot chain link or field fencing and locking gates. The Permittee shall maintain the fences to serve the stated purpose throughout the term of this Discharge Permit.</p> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]</p>
12.	<p>The Permittee shall maintain signs indicating that the wastewater at the Facility is not potable. The Permittee shall post signs at the Facility entrance and other areas where there is potential for public contact with wastewater. The Permittee shall print signs in English and Spanish and shall ensure the signs remain visible and legible for the term of this Discharge Permit.</p> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]</p>
13.	<p>The Permittee shall properly manage all solids generated by the treatment system to maintain effective operation of the system by removing solids as necessary and in accordance with associated equipment manufacturer’s specifications. The Permittee shall contain, transport, and dispose of solids removed from the treatment process in accordance with all local, state, and federal regulations. The Permittee shall maintain records of solids disposal and make them available to NMED upon request.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
14.	<p>The Permittee shall utilize operators, certified by the State of New Mexico at the appropriate level pursuant to 20.7.4 NMAC, to operate the wastewater collection, treatment, and disposal systems. A certified operator or a direct supervisee of a certified operator shall perform the operations and maintenance of all or any part of the wastewater system.</p> <p>The Permittee shall notify the NMED within 24 hours if at any time the Permittee no longer has a certified operator maintaining the system.</p> <p>[Subsection C of 20.6.2.3109 NMAC, 20.7.4 NMAC]</p>

B. MONITORING AND REPORTING

#	Terms and Conditions
15.	<p>The Permittee shall conduct the monitoring, reporting, and other requirements listed below in accordance with the monitoring requirements of this Discharge Permit.</p>

#	Terms and Conditions
	[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
16.	METHODOLOGY - Unless otherwise specified by this Discharge Permit, or approved in writing by NMED, the Permittee shall use sampling and analytical techniques that conform with the references listed in Subsection B of 20.6.2.3107 NMAC. [Subsection B of 20.6.2.3107 NMAC]

Due Dates for Monitoring Reports

#	Terms and Conditions
17.	Quarterly monitoring - The Permittee shall perform monitoring and other Permit required actions during the following periods and shall submit quarterly reports to NMED by the following due dates: <ul style="list-style-type: none"> • January 1st through March 31st – due by May 1st; • April 1st through June 30th – due by August 1st; • July 1st through September 30th – due by November 1st; and • October 1st through December 31st – due by February 1st. [Subsection A of 20.6.2.3107 NMAC]

Monitoring Actions with Implementation Deadlines

#	Terms and Conditions
18.	<p>Prior to discharging reclaimed domestic wastewater from the Facility to <i>any</i> approved future Los Alamos County reuse area(s), the Permittee shall install the following flow meter(s).</p> <p style="padding-left: 40px;">One totalizing flow meter installed on the transfer line from the upgradient storage tank to <i>each</i> reuse area to measure the volume of reclaimed domestic wastewater discharged to the reuse area.</p> <p>The Permittee shall submit to NMED confirmation of meter installation, type, calibration, and location prior to discharging to <i>each</i> reuse area.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
19.	Within 120 days of the issuance date of this Discharge Permit (by DATE), the Permittee shall install the following monitoring well.

#	Terms and Conditions
	<p>One replacement monitoring well (MW-1A) located hydrologically downgradient of the closed Bayo Canyon WWTF's sludge drying beds.</p> <p>The Permittee shall complete the well in accordance with the attached Monitoring Well Guidance.</p> <p>Unless otherwise noted in this Discharge Permit, the requirement to install a monitoring well downgradient of a source is <u>not</u> contingent upon construction of the Facility, or discharge of wastewater from the Facility.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
20.	<p>Following, the installation of the replacement monitoring well required by this Discharge Permit, the Permittee shall sample groundwater in the well and analyze the samples for TKN, NO₃-N, TDS, and Cl.</p> <p>The Permittee shall perform groundwater sample collection, preservation, transport, and analysis according to the following procedure.</p> <ol style="list-style-type: none"> a) Measure the depth-to-most-shallow groundwater from the top of the well casing to the nearest one-hundredth of a foot. b) Purge three well volumes of water from the well prior to sample collection. c) Obtain samples from the well for analysis. d) Properly prepare, preserve, and transport samples. e) Analyze samples in accordance with the methods authorized in this Discharge Permit. <p>Within 45 days of the installation of the monitoring well the Permittee shall submit a well completion report to NMED. A well completion report shall at a minimum include: the Office of the State Engineer permit, well construction and lithologic logs, latitude and longitude coordinates for the well in decimal format, depth-to-most-shallow groundwater measurements, analytical results including the laboratory QA/QC summary report, and a facility layout map showing the location and number of the well. The Permittee shall ensure the well completion report addresses each numbered item in the General Drilling and Well Specifications in the attached Monitoring Well Guidelines.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
21.	<p>The Permittee shall sample reclaimed domestic wastewater for the presence of perfluorinated chemicals (PFCs).</p>

#	Terms and Conditions
	<p>Within 180 days of the issuance date of this Discharge Permit (by DATE), the Permittee shall collect a single grab sample after the UV disinfection unit. The Permittee shall analyze the sample for the following PFCs:</p> <ul style="list-style-type: none"> • perfluorohexane sulfonic acid (PFHxS) (CAS 355-46-4) • perfluorooctane sulfonate (PFOS) (CAS 1763-23-1) • perfluorooctanoic acid (PFOA) (CAS 335-67-1) <p>The Permittee shall properly collect, prepare, preserve, transport, and analyze the sample in accordance with Method 1633, or an equivalent method that uses liquid chromatography and tandem mass spectrometry (LC/MS/MS). The reporting limit shall be low enough to identify whether the combined concentration of the perfluorinated chemicals is less than the Tap Water Screening Level identified in the <i>NMED Risk Assessment Guidance for Site Assessments and Investigations</i>, Table A-1 available on the NMED Hazardous Waste Bureau’s website under Guidance Documents. The Permittee shall take appropriate measures to avoid cross contamination while collecting and transporting the sample. The selected laboratory should be able to provide guidance that ensures sample integrity. The Permittee shall submit a copy of the laboratory report, including analytical results, the QA/QC summary, and the Chain of Custody to NMED within 30 days of laboratory report receipt.</p> <p>[Subsection H of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>

Groundwater Monitoring Conditions

#	Terms and Conditions
22.	<p>The Permittee shall perform quarterly groundwater sampling in the following groundwater monitoring well and analyze the samples for TKN, NO₃-N, TDS, and Cl.</p> <p style="padding-left: 40px;">MW-1A, located hydrologically downgradient of the closed Bayo Canyon WWTF’s sludge drying beds.</p> <p>The Permittee shall perform groundwater sample collection, preservation, transport, and analysis according to the following procedures.</p> <ol style="list-style-type: none"> a) Measure the depth-to-most-shallow groundwater from the top of the well casing to the nearest one-hundredth of a foot. b) Purge three well volumes of water from the well prior to sample collection. c) Obtain samples from the well for analysis. d) Properly prepare, preserve, and transport samples. e) Analyze samples in accordance with the methods authorized in this Discharge

#	Terms and Conditions
	<p>Permit.</p> <p>The Permittee shall submit the depth-to-most-shallow groundwater measurements and the laboratory analytical data results including the laboratory QA/QC summary report and Chain of Custody, and a Facility layout map showing the location of the well to NMED in the quarterly monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
23.	<p>NMED shall have the option to perform a downhole inspection of the groundwater monitoring well identified in this Discharge Permit. NMED shall establish the inspection date and notify the Permittee. The Permittee shall remove any existing dedicated pumps at least 48 hours prior to NMED inspection to allow adequate settling time of sediment agitated from pump removal.</p> <p>Should the Permittee decide to install a pump in a monitoring well without a dedicated pump, the Permittee shall notify NMED at least 90 days prior to pump installation so that NMED can schedule a downhole well inspection prior to pump placement.</p> <p>[Subsections A and D of 20.6.2.3107 NMAC]</p>

Facility Monitoring Conditions

#	Terms and Conditions
24.	<p>The Permittee shall measure the total monthly volume, calculate the daily average volume, and record the daily peak volume of wastewater received by the treatment facility each month using a primary measuring device (equipped with head sensing, totalizing and chart recording/data logging mechanisms) located prior to the entrance works. The Permittee shall submit the totalized average daily and peak daily influent volumes for each calendar month to NMED in the quarterly monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
25.	<p>The Permittee shall measure the total monthly volume, calculate the daily average volume, and record the daily peak volume of treated wastewater discharged to Pueblo Canyon via the NPDES outfall each month using a primary measuring device (equipped with head sensing, totalizing and chart recording/data logging mechanisms) located after the ultraviolet disinfection unit and prior to the NPDES Outfall. The Permittee shall submit the totalized average daily and peak daily discharge volumes for each calendar month to NMED in the quarterly monitoring reports.</p>

#	Terms and Conditions
	[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]
26.	<p>The Permittee shall on a monthly basis measure the volume of reclaimed domestic wastewater discharged to <i>each</i> reuse area using a totalizing flow meter. The meter shall be located on the transfer line(s) between the North Mesa/Group 12 storage tanks and <i>each</i> reuse area.</p> <p>The Permittee shall maintain a log that records the date that discharges occur to <i>each</i> reuse location and the monthly totalizing meter readings and units of measurement. The Permittee shall use the log to calculate the total calendar monthly volume of reclaimed domestic wastewater discharged to <i>each</i> location. The Permittee shall submit a copy of the log to NMED in the quarterly monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
27.	<p>The Permittee shall measure the monthly volume of reclaimed wastewater transferred to the stand-pipe for temporary uses that do not require a Discharge Permit using a totalizing flow meter. The meter shall be located on the transfer line between the WWTF and the stand-pipe.</p> <p>The Permittee shall maintain a log that records the monthly totalizing meter readings to the stand-pipe. The monthly meter readings log and calculated average daily discharge volumes shall be submitted to NMED in the quarterly monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
28.	<p>The Permittee shall measure the monthly volume of reclaimed domestic wastewater discharged from the hydrant used for line flushing and the hydrant used for fire control. The Permittee shall obtain readings from a hydrant meter located after <i>each</i> hydrant on a monthly basis and calculate the monthly and average daily discharge volume. The Permittee shall log the beginning and ending meter readings for <i>each</i> line flushing and fire control event.</p> <p>The monthly meter reading(s) logs and calculated monthly and average daily discharge volumes shall be submitted to NMED in the quarterly monitoring reports. If no discharge occurs for a complete calendar month, the Permittee shall report: “no discharge”.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
29.	<p>All flow meters shall be capable of having their accuracy verified under working (i.e., real-time in-the-field) conditions. The Permittee shall develop a field verification method for each flow meter and shall utilize that method to check the accuracy of each respective meter. The Permittee shall perform field calibrations, at a minimum, on an</p>

#	Terms and Conditions
	<p>annual basis. The Permittee shall also perform field calibrations upon repair or replacement of a flow measurement device.</p> <p>The Permittee shall calibrate each flow meter to its manufacturer’s recommended specification which shall be no less accurate than plus or minus 10 percent of actual flow, as measured under field conditions. An individual knowledgeable in flow measurement shall perform field calibration and the installation/operation of the device in use. The Permittee shall prepare a flow meter calibration report for each flow measurement device calibration event. The flow meter calibration report shall include the following information.</p> <ol style="list-style-type: none"> a) The location and meter identification. b) The method of flow meter field calibration employed. c) The measured accuracy of each flow meter prior to adjustment indicating the positive or negative offset as a percentage of actual flow as determined by an in-field calibration check. d) The measured accuracy of each flow meter following adjustment, if necessary, indicating the positive or negative offset as a percentage of actual flow of the meter. e) Any flow meter repairs made during the previous year or during field calibration. f) The name of the individual performing the calibration and the date of the calibration. <p>The Permittee shall maintain records of flow meter calibration(s) at a location accessible for review by NMED during Facility inspections.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
30.	<p>The Permittee shall visually inspect flow meters on a monthly basis for evidence of malfunction. The Permittee shall maintain a log of the inspections that includes a date of the inspection, findings and repairs, and the name of the inspector. The Permittee shall make the log available to NMED upon request.</p> <p>If a visual inspection indicates a flow meter is not functioning as required by this Discharge Permit, the Permittee shall repair or replace the meter within 30 days of discovery. For <i>repaired</i> meters, the Permittee shall submit a report to NMED with the next monitoring report following the repair that includes a description of the malfunction; a statement verifying the repair; and a flow meter field calibration report completed in accordance with the requirements of this Discharge Permit. For <i>replacement</i> meters, the Permittee shall submit a report to NMED with the next monitoring report following the replacement that includes a design schematic for the device and a flow meter field calibration report completed in accordance with the requirements of this Discharge Permit.</p>

#	Terms and Conditions
	<p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
31.	<p>The Permittee shall collect samples of reclaimed domestic wastewater after the UV disinfection unit on a monthly basis and analyze the samples for:</p> <ul style="list-style-type: none"> • TKN; • NO₃-N; • TDS; and • Cl. <p>The Permittee shall ensure the samples are properly prepared, preserved, transported, and analyzed in accordance with the methods authorized in this Discharge Permit. The Permittee shall submit the laboratory analytical data results, including the QA/QC summary and Chain of Custody, to NMED in the quarterly monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
32.	<p>During any week that the discharge of reclaimed domestic wastewater occurs, the Permittee shall perform the following analyses on the wastewater samples collected after the UV disinfection unit using the following sampling method and frequency:</p> <ul style="list-style-type: none"> • E. coli bacteria: grab sample at peak daily flow three times per week; • BOD₅: six-hour composite sample three times per week; • TSS: six-hour composite sample three times per week; and • UV transmissivity values: record whenever collecting bacteria samples. <p>The Permittee shall ensure the samples are properly prepared, preserved, transported, and analyzed in accordance with the methods authorized in this Discharge Permit. The Permittee shall submit the laboratory analytical data results, including the QA/QC summary and Chain of Custody, and a copy of the log of UV transmissivity values to NMED in the subsequent quarterly monitoring report.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections B, C and H of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]</p>
33.	<p>Within one year of the date of this Discharge Permit (by DATE), the Permittee shall collect a 24-hour flow weighted composite sample (except as noted for pH) of reclaimed domestic wastewater from the UV disinfection unit and analyze the sample for the following inorganic contaminants (dissolved fraction, except as noted):</p> <ul style="list-style-type: none"> • aluminum (CAS 7429-90-5) • antimony (CAS 7440-36-0) • arsenic (CAS 7440-38-2) • manganese (CAS 7439-96-5) • molybdenum (CAS 7439-98-7) • total mercury (nonfiltered) (CAS 7439-97-6)

#	Terms and Conditions
	<ul style="list-style-type: none"> • barium (CAS 7440-39-3) • beryllium (CAS 7440-41-7) • boron (CAS 7440-42-8) • cadmium (CAS 7440-43-9) • chromium (CAS 7440-47-3) • cobalt (CAS 7440-48-4) • copper (CAS 7440-50-8) • cyanide CAS 57-12-5) • fluoride (CAS 16984-48-8) • iron (CAS 7439-89-6) • lead (CAS 7439-92-1) • pH (instantaneous) • nickel (CAS 7440-02-0) • radioactivity: combined radium-226 & radium-228 (CAS 15262-20-1) • selenium (CAS 7782-49-2) • silver (CAS 7440-224) • sulfate (CAS 14808-79-8) • thallium (CAS 7440-28-0) • uranium (CAS 7440-61-1) • zinc (CAS 7440-66-6) <p>The Permittee shall properly collect, prepare, preserve, transport, and analyzed the samples in accordance with the methods authorized in this Discharge Permit. The Permittee shall analyze the sample using methods with reporting limits that are less than the corresponding numerical groundwater standards identified in 20.6.2.3103 NMAC.</p> <p>The Permittee shall submit a summary of measured concentrations compared with the corresponding groundwater standards, a copy of the laboratory report including the laboratory analytical data results, the QA/QC summary and the Chain of Custody, to NMED in the subsequent quarterly monitoring report.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
34.	<p>Within one year of the date of this Discharge Permit (by DATE), the Permittee shall collect a grab sample of reclaimed domestic wastewater after the UV disinfection unit and analyze the non-filtered sample for the following organic contaminants:</p> <ul style="list-style-type: none"> • atrazine (CAS 1912-24-9) • benzene (CAS 71-43-2) • benzo-a-pyrene (CAS 50-32-8) • carbon tetrachloride (CAS 56-23-5) • chloroform (CAS 67-66-3) • 1,2-dichlorobenzene (CAS 95-50-1) • 1,4-dichlorobenzene (CAS 106-46-7) • 1,1-dichloroethane (CAS 75-34-3) • 1,2-dichloroethane (EDC, CAS 107-06-2) • ethylene dibromide (EDB, CAS 106-93-4) • methylene chloride (CAS 75-09-2) • <u>PAHs</u>: total naphthalene (CAS 91-20-3) plus monomethylnaphthalenes • phenols • polychlorinated biphenyls (PCBs, CAS 1336-36-3) • pentachlorophenol (CAS 87-86-5) • toluene (CAS 108-88-3) • styrene (CAS 100-42-5) • 1,1,2,2-tetrachloroethane (CAS 79-34-5)

#	Terms and Conditions
	<ul style="list-style-type: none"> • 1,1-dichloroethene (1,1-DCE, CAS 75-35-4) • cis-1,2-dichloroethene (CAS 156-59-2) • trans-1,2-dichloroethene (CAS 156-60-5) • 1,2-dichloropropane (PDC, CAS 78-87-5) • 1,4-dioxane (CAS 123-91-1) (using EPA Method 8270D- SIM) • ethylbenzene (CAS 100-41-4) • tetrachloroethene (PCE, CAS 127-18-4) • 1,2,4-trichlorobenzene (CAS 120-82-1) • 1,1,1-trichloroethane (1,1,1-TCA, CAS 71-55-6) • 1,1,2-trichloroethane (CAS 79-00-5) • trichloroethene (TCE, CAS 79-01-6) • vinyl chloride (CAS 75-01-4) • total xylenes (CAS 1330-20-7) <p>The Permittee shall properly collect, prepare, preserve, transport, and analyze the samples in accordance with the methods authorized in this Discharge Permit. The Permittee shall analyze samples using methods with reporting limits that are less than the corresponding numerical groundwater standards identified in 20.6.2.3103 NMAC. The reporting limit for 1,4-dioxane shall be less than the Tap Water Screening Level for 1,4-dioxane identified in the <i>NMED Risk Assessment Guidance for Site Assessments and Investigations</i>, Table A-1 (available on the NMED Hazardous Waste Bureau’s website under Guidance Documents).</p> <p>The Permittee shall submit a summary of measured concentrations compared with the corresponding groundwater standards, and a copy of the laboratory report including the laboratory analytical data results, the QA/QC summary and the Chain of Custody to NMED in the subsequent quarterly monitoring report.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
35.	<p>The Permittee shall keep a Fertilizer Log (copy enclosed) of all additional nitrogenous fertilizer applied to <i>each</i> reuse area. The Log shall contain the date of fertilizer application, the type (organic or inorganic) and form (granular or liquid), nitrogen concentration (in percent), the amount of fertilizer applied (in pounds per acre), and the amount of nitrogen applied (in pounds per acre) for each location. The Permittee shall submit the log, or a statement that application of fertilizer did not occur, to NMED in the subsequent quarterly monitoring report.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
36.	<p>The Permittee shall submit records of solids disposal, including the volume of solids removed and copies of all manifests for the previous calendar year, to NMED annually in the monitoring report due by August 1st of each year.</p>

#	Terms and Conditions
	[Subsection A of 20.6.2.3107 NMAC]

C. CONTINGENCY PLAN

#	Terms and Conditions
37.	<p>In the event that groundwater monitoring indicates that groundwater exceeds a standard identified in Section 20.6.2.3103 NMAC in a monitoring well with no previous exceedances of the chemical constituent at the date of issuance of this Discharge Permit, the Permittee shall collect a confirmatory sample from the monitoring well within 15 days of receipt of the initial sampling results to confirm the initial sampling results.</p> <p>Within 60 days of confirmation of groundwater contamination, the Permittee shall submit to NMED a Corrective Action Plan (CAP) that proposes, at a minimum, contaminant source control measures and an implementation schedule. The Permittee shall implement the CAP as approved by NMED.</p> <p>This condition shall apply until the Permittee completes groundwater monitoring for a minimum of eight (8) consecutive quarterly samples demonstrating groundwater does not exceed the standards of Section 20.6.2.3103 NMAC.</p> <p>Violation of the groundwater standard beyond 180 days after the confirmation of groundwater contamination may cause NMED to require the Permittee to abate water pollution consistent with the requirements and provisions of Section 20.6.2.4101, Section 20.6.2.4103, Subsections C and E of 20.6.2.4106, Section 20.6.2.4107, Section 20.6.2.4108, and Section 20.6.2.4112 NMAC.</p> <p>[20.6.2.3103 NMAC, Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]</p>
38.	<p>In the event that information available to NMED indicates that the well is not constructed in a manner consistent with the attached Monitoring Well Guidance, contains insufficient water to effectively monitor groundwater quality, or is otherwise not completed in a manner that is protective of groundwater quality, the Permittee shall install a replacement well within 120 days following notification from NMED.</p> <p>The Permittee shall install the replacement well at a location approved by NMED prior to installation and shall complete the replacement well in accordance with the attached</p>

#	Terms and Conditions
	<p>Monitoring Well Guidance. The Permittee shall submit well construction and lithologic logs to NMED within 60 days following the well completion.</p> <p>The Permittee shall properly plug and abandon the monitoring well requiring replacement upon completion of the replacement monitoring well. The Permittee shall complete the well plugging and abandonment, and shall document the abandonment procedures, in accordance with the attached Monitoring Well Guidance and all applicable local, state, and federal regulations. The Permittee shall submit a copy of the well abandonment documentation to NMED within 60 days following the replacement well completion.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
39.	<p>In the event that the Facility exceeds the authorized influent (i.e., domestic/municipal wastewater) volume set in this Discharge Permit, the Permittee shall initiate the following Contingency Plan.</p> <p><u>Contingency Plan</u></p> <ul style="list-style-type: none"> a) Notify NMED within seven days of the discovery of the influent volume exceedance that the Facility exceeded the authorized influent volume. b) The Permittee shall conduct a physical inspection of the treatment system, i.e., inflow and infiltration issues, collection system failures, etc., and the influent volume measuring device to detect abnormalities and report the findings to NMED within 30 days of the discovery of the discharge volume exceedance. The Permittee shall correct any abnormalities detected with NMED’s concurrence. c) If the Permittee does not detect any abnormalities and with NMED’s concurrence, the Permittee shall submit a discharge permit modification for the increase in influent quantity to NMED within 90 days of the discovery of the discharge volume exceedance. The discharge permit modification must include demonstration that the volume increase is sufficient for the design capacity or plans and specifications to upgrade the system to accommodate the influent volume increase. <p>[Subsection A of 20.6.2.3107 NMAC]</p>
40.	<p>In the event that analytical results of a treated wastewater sample indicate an exceedance of the total nitrogen discharge limit set in this Discharge Permit, the Permittee shall collect and submit for analysis a second sample within 48 hours of the receipt of the initial sampling results. In the event the second sample results indicate an exceedance of the discharge limit, the Permittee shall implement the following contingencies.</p> <ul style="list-style-type: none"> a) Within 7 days of the second sample analysis date indicating exceedance of the

#	Terms and Conditions
	<p>discharge limit, the Permittee shall:</p> <ul style="list-style-type: none"> i) notify NMED that the Permittee is implementing the Contingency Plan; and ii) submit a copy of the first and second analytical results indicating an exceedance to NMED. <ul style="list-style-type: none"> b) The Permittee shall increase the frequency of total nitrogen wastewater sampling and analysis of treated wastewater to once per week. c) The Permittee shall examine the operation and maintenance log, required by the Record Keeping conditions of this Discharge Permit, for improper operational procedures. d) The Permittee shall conduct a physical inspection of the treatment system to detect abnormalities. The Permittee shall correct any abnormalities discovered. The Permittee shall submit a report to NMED detailing the corrections within 30 days of correction. e) In the event that any analytical results from monthly wastewater sampling indicate an exceedance of the total nitrogen discharge limit, the Permittee shall submit a CAP to NMED for approval proposing to modify operational procedures and/or upgrade the treatment process to achieve the total nitrogen limit. The Permittee shall submit the CAP including a schedule for completion of corrective actions and within 90 days of receipt of the analytical results of the second sample indicating that the discharge continues to exceed the limit. The Permittee shall initiate implementation of the CAP following approval by NMED. <p>When analytical results from three consecutive months of wastewater sampling do not exceed the discharge limit, the Permittee may request NMED authorize a return to a monthly monitoring frequency.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
41.	<p>In the event that analytical results of a reclaimed domestic wastewater sample exceed any of the maximum discharge limits for BOD₅, TSS, or E. coli bacteria set by this Discharge Permit, the Permittee shall collect and submit for analysis a second sample within 24 hours after becoming aware of the exceedance. In the event the second sample results confirm the exceedance of the maximum discharge limits, the Permittee shall implement the Contingency Plan below.</p> <p>In the event that analytical results of a reclaimed domestic wastewater sample exceed any of the 30-day average discharge limits for BOD₅, TSS, or E. coli bacteria set by this Discharge Permit (i.e., confirmed exceedance), the Permittee shall implement the Contingency Plan below.</p> <p><u>Contingency Plan</u></p>

#	Terms and Conditions
	<p>a) Within 24 hours of becoming aware of a confirmed exceedance (as identified above), the Permittee shall:</p> <ul style="list-style-type: none"> i) notify NMED that the Permittee is implementing the Contingency Plan; and ii) submit copies of the recent analytical results indicating the exceedance(s) to NMED. <p>b) The Permittee shall immediately cease discharging reclaimed domestic wastewater to the storage tanks and to <i>all</i> reuse areas if the fecal coliform or E. coli bacteria maximum limit is exceeded.</p> <p>c) The Permittee shall examine the operation and maintenance log, required by the Record Keeping conditions of this Discharge Permit, for improper operational procedures.</p> <p>d) The Permittee shall conduct a physical inspection of the treatment system to detect abnormalities and shall correct any abnormalities discovered. The Permittee shall submit a report detailing the corrections made to NMED within 30 days following correction.</p> <p>When the analytical results from samples of reclaimed domestic wastewater, sampled as required by this Discharge Permit, no longer indicate an exceedance of the maximum discharge limits for E. coli bacteria, the Permittee may resume discharging reclaimed domestic wastewater to the reuse areas with NMED approval.</p> <p>If a Facility is required to implement the Contingency Plan more than two times in a 12-month period, the Permittee shall propose to modify operational procedures and upgrade the treatment process to achieve consistent compliance with the maximum and 30-day average discharge limits by submitting a Corrective Action Plan (CAP) for NMED approval within 60 days following receipt of the analytical results confirming the exceedance. The Permittee shall ensure the CAP includes a schedule for completion of corrective actions and identification of alternative disposal locations/methods. The Permittee shall initiate implementation of the CAP following approval by NMED. NMED may require the Permittee to complete approved corrective actions prior to recommencing discharge to the reuse areas.</p> <p>NMED may require, prior to recommencing discharge to the reuse areas, additional sampling of any stored reclaimed domestic wastewater.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
42.	<p>In the event that a release occurs that is not authorized under this Discharge Permit (commonly known as a “spill”), the Permittee shall take measures to mitigate damage from the unauthorized discharge and initiate the notifications and corrective actions</p>

#	Terms and Conditions
	<p>required in Section 20.6.2.1203 NMAC and summarized below. A release is defined as such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property.</p> <p>Within <u>24 hours</u> following discovery of the unauthorized discharge, the Permittee shall verbally notify NMED and provide the following information.</p> <ul style="list-style-type: none">a) The name, address, and telephone number of the person or persons in charge of the Facility, as well as of the owner and/or operator of the Facility.b) The name and address of the Facility.c) The date, time, location, and duration of the unauthorized discharge.d) The source and cause of unauthorized discharge.e) A description of the unauthorized discharge, including its estimated chemical composition.f) The estimated volume of the unauthorized discharge.g) Any actions taken to mitigate immediate damage from the unauthorized discharge. <p>Within <u>one week</u> following discovery of the unauthorized discharge, the Permittee shall submit written notification to NMED providing the information listed above and any pertinent updates.</p> <p>Within <u>15 days</u> following discovery of the unauthorized discharge, the Permittee shall submit a CAP to NMED describing any corrective actions previously taken and corrective actions to be taken relative to the unauthorized discharge. The CAP shall include the following information.</p> <ul style="list-style-type: none">a) A description of proposed actions to mitigate damage from the unauthorized discharge.b) A description of proposed actions to prevent future unauthorized discharges of this nature.c) A schedule for completion of proposed actions. <p>In the event that the unauthorized discharge causes or may with reasonable probability cause water pollution in excess of the standards and requirements of Section 20.6.2.4103 NMAC, and the water pollution will not be abated within 180 days after notice is required to be given pursuant to Paragraph (1) of Subsection A of 20.6.2.1203 NMAC, NMED may require the Permittee to abate water pollution pursuant to Sections 20.6.2.4000 through 20.6.2.4115 NMAC.</p> <p>The Permittee shall not construe anything in this condition as relieving them of the obligation to comply with all requirements of Section 20.6.2.1203 NMAC.</p>

#	Terms and Conditions
	[20.6.2.1203 NMAC]
43.	<p>In the event that NMED or the Permittee identifies any failures of the discharge plan, i.e., the application, or this Discharge Permit not specifically noted herein, NMED may require the Permittee to submit a CAP and a schedule for completion of corrective actions to address the failure(s). Additionally, NMED may require a discharge permit modification to achieve compliance with 20.6.2 NMAC.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]</p>

D. CLOSURE PLAN

Closure Actions with Implementation Deadlines

#	Terms and Conditions
44.	<p>Within 120 days following the issuance date of this Discharge Permit (by DATE), the Permittee shall properly plug and abandon the following monitoring well.</p> <p style="padding-left: 40px;">MW-1, located hydrologically downgradient of the closed Bayo Canyon WWTF's sludge drying beds.</p> <p>The Permittee shall abandon the monitoring well in accordance with the attached Monitoring Well Guidance and all applicable local, state, and federal regulations, including 19.27.4 NMAC.</p> <p>The Permittee shall submit documentation describing the well abandonment procedures in accordance with the above-mentioned Guidelines. The Permittee shall submit the well abandonment documentation to NMED within 60 days of completion of well plugging activities.</p> <p>[Subsection A of 20.6.2.3107 NMAC, 19.27.4 NMAC]</p>

Permanent Facility Closure Conditions

#	Terms and Conditions
45.	<p>The Permittee shall perform the following closure measures in the event the Facility, or a component of the Facility, is proposed to be permanently closed.</p> <p>Within <u>90 days</u> of ceasing to discharge to the treatment system, the Permittee shall</p>

#	Terms and Conditions
	<p>complete the following closure measures.</p> <ul style="list-style-type: none">a) Plug the line leading to the system so that a discharge can no longer occur.b) Evaporate wastewater in the system components or drain and dispose of in accordance with all local, state, and federal regulations, or discharged from the system to the reuse area as authorized by this Discharge Permit. The discharge of accumulated solids (sludge) to the reuse area is prohibited.c) Contain, transport, and dispose of solids removed from the treatment system in accordance with all local, state, and federal regulations, including 40 CFR Part 503. The Permittee shall maintain a record of all solids transported for off-site disposal. <p>Within <u>180 days</u> of ceasing to discharge to the treatment system (or component), the Permittee shall complete the following closure measures.</p> <ul style="list-style-type: none">a) Remove all lines leading to and from the treatment system, or permanently plug and abandon them in place.b) Remove or demolish treatment system component(s), and re-grade the area with suitable fill to blend with surface topography, promote positive drainage, and prevent ponding. <p>The Permittee shall continue groundwater monitoring until the Permittee meets the requirements of this condition and groundwater monitoring confirms for a minimum of eight consecutive quarterly groundwater sampling events that groundwater does not exceed the standards of Section 20.6.2.3103 NMAC. This period is referred to as “post-closure.”</p> <p>If at any time monitoring results show an exceedance of a groundwater quality standard in Section 20.6.2.3103 NMAC, the Permittee shall implement the Contingency Plan required by this Discharge Permit.</p> <p>Following notification from NMED that the Permittee may cease post-closure monitoring, the Permittee shall plug and abandon the monitoring well in accordance with the attached Monitoring Well Guidance.</p> <p>When the Permittee has met all closure and post-closure requirements and verified appropriate actions with date stamped photographic evidence or an associated NMED inspection, the Permittee may submit to NMED a written request, including photographic evidence, for termination of the Discharge Permit.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection D of 20.6.2.4103 NMAC, 40 CFR Part 503]</p>

E. GENERAL TERMS AND CONDITIONS

#	Terms and Conditions
46.	<p>RECORD KEEPING - The Permittee shall maintain a written record of the following:</p> <ul style="list-style-type: none"> • Information and data used to complete the application for this Discharge Permit; • Information, data, and documents demonstrating completion of closure activities; • Any releases (commonly known as “spills”) not authorized under this Discharge Permit and reports submitted pursuant to 20.6.2.1203 NMAC; • The operation, maintenance, and repair of all facilities/equipment used to treat, store, or dispose of wastewater; • Facility record drawings (plans and specifications) showing the actual construction of the Facility and bear the seal and signature of a licensed New Mexico professional engineer; • Copies of logs, inspection reports, and monitoring reports completed and/or submitted to NMED pursuant to this Discharge Permit; • The volume of wastewater or other wastes discharged pursuant to this Discharge Permit; • Groundwater quality and wastewater quality data collected pursuant to this Discharge Permit; • Copies of construction records (well log) for all sampled groundwater monitoring wells pursuant to this Discharge Permit; • The maintenance, repair, replacement, or calibration of any monitoring equipment or flow measurement devices required by this Discharge Permit; and • Data and information related to field measurements, sampling, and analysis conducted pursuant to this Discharge Permit, including: <ul style="list-style-type: none"> ○ the dates, locations, and times of sampling or field measurements; ○ the name and job title of the individuals who performed each sample collection or field measurement; ○ the sample analysis date of each sample; ○ the name and address of the laboratory, and the name of the signatory authority for the laboratory analysis; ○ the analytical technique or method used to analyze each sample or collect each field measurement; ○ the results of each analysis or field measurement, including raw data; ○ the results of any split, spiked, duplicate, or repeat sample; and ○ a copy of the laboratory analysis chain-of-custody as well as a description of the quality assurance and quality control procedures used. <p>The Permittee shall maintain the written record at a location accessible to NMED during a Facility inspection for a minimum of five years. The Permittee shall make the record available to NMED upon request.</p>

#	Terms and Conditions
	[Subsections A and D of 20.6.2.3107 NMAC]
47.	<p>SUBMITTALS - The Permittee shall submit both a paper copy and an electronic copy of all notification and reporting documents required by this Discharge Permit, e.g., monitoring reports. The Permittee shall submit paper and electronic documents to the NMED Permit Contact identified on the Permit cover page.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
48.	<p>INSPECTION and ENTRY - The Permittee shall allow NMED to inspect the Facility and its operations that are subject to this Discharge Permit and the WQCC regulations. NMED may upon presentation of proper credentials, enter at reasonable times upon or through any premises in which a water contaminant source is located or in which any maintained records required by this Discharge Permit, the regulations of the federal government, or the WQCC are located.</p> <p>The Permittee shall allow NMED to have access to and reproduce for their use any copy of the records, and to perform assessments, sampling or monitoring during an inspection for the purpose of evaluating compliance with this Discharge Permit and the WQCC regulations.</p> <p>No person shall construe anything in this Discharge Permit as limiting in any way the inspection and entry authority of NMED under the WQA, the WQCC Regulations, or any other local, state or federal regulations.</p> <p>[Subsection D of 20.6.2.3107 NMAC, NMSA 1978, §§ 74-6-9.B and 74-6-9.E]</p>
49.	<p>DUTY to PROVIDE INFORMATION - The Permittee shall, upon NMED’s request, allow for NMED’s inspection/duplication of records required by this Discharge Permit and/or furnish to NMED copies of such records.</p> <p>[Subsection D of 20.6.2.3107 NMAC]</p>
50.	<p>MODIFICATIONS and/or AMENDMENTS - In the event the Permittee proposes a change to the Facility or the Facility’s discharge that would result in a change in the volume discharged; the location of the discharge; or in the amount or character of water contaminants received, treated, or discharged by the Facility, the Permittee shall notify NMED prior to implementing such changes. The Permittee shall obtain NMED’s approval (which may require modification of this Discharge Permit) prior to implementing such changes.</p> <p>[Subsection C of 20.6.2.3107 NMAC, Subsections E and G of 20.6.2.3109 NMAC]</p>

#	Terms and Conditions
51.	<p>PLANS and SPECIFICATIONS - In the event the Permittee proposes to construct a wastewater system or change a process unit of an existing system such that the quantity or quality of the discharge will change substantially from that authorized by this Discharge Permit, the Permittee shall submit construction plans and specifications of the proposed system or process unit to NMED for approval prior to the commencement of construction.</p> <p>In the event the Permittee implements changes to the wastewater system authorized by this Discharge Permit that result in only a minor effect on the character of the discharge, the Permittee shall report such changes (including the submission of record drawings where applicable) to NMED prior to implementation.</p> <p>[Subsections A and C of 20.6.2.1202 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]</p>
52.	<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.</p> <p>[20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10 and 74-6-10.1]</p>
53.	<p>CRIMINAL PENALTIES - No person shall:</p> <ul style="list-style-type: none"> • Make any false material statement, representation, certification, or omission of material fact in an application, record, report, plan, or other document filed, submitted, or maintained under the WQA; • Falsify, tamper with, or render inaccurate any monitoring device, method, or record maintained under the WQA; or • Fail to monitor, sample, or report as required by a permit issued pursuant to a state or federal law or regulation. <p>Any person who knowingly violates or knowingly causes or allows another person to violate the requirements of this condition is guilty of a fourth-degree felony and shall be</p>

#	Terms and Conditions
	<p>sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who is convicted of a second or subsequent violation of the requirements of this condition is guilty of a third-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who knowingly violates the requirements of this condition or knowingly causes another person to violate the requirements of this condition and thereby causes a substantial adverse environmental impact is guilty of a third-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who knowingly violates the requirements of this condition and knows at the time of the violation that he is creating a substantial danger of death or serious bodily injury to any other person is guilty of a second degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15.</p> <p>[20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10.2.A through 74-6-10.2.F]</p>
54.	<p>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 any other applicable federal, state, and/or local laws, regulations, zoning requirements, nuisance ordinances, permits, or orders.</p> <p>[NMSA 1978, § 74-6-5.L]</p>
55.	<p>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 days of the receipt of postal notice of this Discharge Permit and shall include a statement of the issues raised and the relief sought. Unless the Permittee files a timely petition for review, the decision of NMED shall be final and not subject to judicial review.</p> <p>[20.6.2.3112 NMAC, NMSA 1978, § 74-6-5.O]</p>
56.	<p>TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this Facility or any portion thereof, the Permittee shall:</p> <ul style="list-style-type: none"> • Notify the proposed transferee in writing of the existence of this Discharge Permit; • Include a copy of this Discharge Permit with the notice; and • Deliver or send by certified mail to NMED a copy of the notification and proof that the proposed transferee has received such notification. <p>The Permittee shall continue to be responsible for any discharge from the Facility, until both ownership and possession of the Facility have been transferred to the transferee.</p> <p>[20.6.2.3111 NMAC]</p>

#	Terms and Conditions
57.	<p>PERMIT FEES - The Permittee shall be aware that the payment of permit fees is due at the time of Discharge Permit approval. The Permittee may pay the permit fees in a single payment or they may pay the fee in equal installments on a yearly basis over the term of the Discharge Permit. The Permittee shall remit single payments to NMED no later than 30 days after the Discharge Permit issuance date. The Permittee shall remit initial installment payments to NMED no later than 30 days after the Discharge Permit issuance date; with subsequent installment payments remitted to NMED no later than the anniversary of the Discharge Permit issuance date.</p> <p>Permit fees are associated with <u>issuance</u> of this Discharge Permit. No person shall construe anything in this Discharge Permit as relieving the Permittee of the obligation to pay all permit fees assessed by NMED. A Permittee that ceases discharging or does not commence discharging from the Facility during the term of the Discharge Permit shall pay all permit fees assessed by NMED. NMED shall suspend or terminate an approved Discharge Permit if the Permittee fails to remit an installment payment by its due date.</p> <p>[Subsection F of 20.6.2.3114 NMAC, NMSA 1978, § 74-6-5.K]</p>



New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

Facility Information

Facility Name	Los Alamos County Wastewater Treatment Facility
Discharge Permit Number	DP-814
Legally Responsible Party	Jennifer Baca, Engineering Associate Los Alamos County Department of Public Utilities 1000 Central Avenue, Suite 130 Los Alamos, New Mexico 87544 (505) 662-8133

Treatment, Disposal and Site Information

Primary Waste Type	Domestic/Municipal
Facility Type	Muni-Wastewater

Treatment Methods

Type	Designation	Description & Comments
Wastewater Treatment System	Los Alamos County Wastewater Treatment Facility	Primary treatment consists of a mechanical bar screen and grit removal system. Secondary treatment consists of two extended aeration basins with nitrification and denitrification zones, followed by two clarifiers. Treated wastewater is conveyed through two filtration disks followed by an ultra-violet disinfection unit. Sludge/solids are aerobically digested, dewatered with a belt press, and hauled off-site to a sludge composting facility.

Discharge Locations

Type	Designation	Description & Comments
NPDES	NPDES Permit No. NM0020141	Treated and disinfected wastewater is discharged to Pueblo Canyon at Outfall 001.
Land Application Class 1B	WWTF	Reclaimed domestic wastewater used for spray irrigation of 4.25 acres of landscape at the WWTF.
Land Application Class 1B	Los Alamos Golf Course	Reclaimed domestic wastewater used for spray irrigation of 92.89 acres of turf and landscape at the Los Alamos Golf Course.
Land Application Class 1B	North Mesa Ball Fields	Reclaimed domestic wastewater used for spray irrigation of 9.67 acres athletic fields and landscape at the North Mesa Ball Fields.
Land Application Class 1B	Los Alamos Soccer Fields	Reclaimed domestic wastewater used for spray irrigation of 2.74 acres athletic fields and landscape at the Los Alamos Soccer Fields.
Land Application Class 1B	Los Alamos Middle-School	Reclaimed domestic wastewater used for spray irrigation of 1.6 acres athletic fields and landscape at the Los Alamos Middle-School.
Land Application Class 1B	Los Alamos Dog Park	Reclaimed domestic wastewater used for spray irrigation of 0.77 acres of landscape at the Los Alamos Dog Park.



New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

Land Application Class 1B	Future Locations	Reclaimed domestic wastewater used for spray irrigation of future re-use locations within the Los Alamos.
Transfer Class 1B	Stand-pipe	Reclaimed domestic wastewater transferred to a stand-pipe located at the WWTF for temporary uses that NMED has determined to not require a Discharge Permit.
Reclaimed Wastewater Hydrant	Line Flushing	Reclaimed domestic wastewater is discharged from a hydrant for reclaimed domestic wastewater line flushing.
Reclaimed Wastewater Hydrant	Fire Suppression	Reclaimed domestic wastewater is discharged from a hydrant located at the WWTF for emergencies in the event of a fire.

Flow Metering Locations

Type	Designation	Description & Comments
Primary Measurement Device	WWTF Influent	Primary Measurement Device located prior to the WWTF's entrance works.
Primary Measurement Device	WWTF Effluent	Primary Measurement Device located after the ultraviolet disinfection unit and prior to the NPDES Outfall.
Totalizing Flow Meter	WWTF Landscape	Totalizing Flow Meter located prior to the WWTF's irrigation system.
Totalizing Flow Meter	Los Alamos Golf Course	Totalizing Flow Meter located on the transfer line between the North Mesa/Group 12 reclaimed wastewater storage tanks and the Los Alamos Golf Course.
Totalizing Flow Meter	North Mesa Ball Fields	Totalizing Flow Meter located on the transfer line between the North Mesa/Group 12 reclaimed wastewater storage tanks and the North Mesa Ball Fields.
Totalizing Flow Meter	Los Alamos Soccer Fields	Totalizing Flow Meter located on the transfer line between the North Mesa/Group 12 reclaimed wastewater storage tanks and the Los Alamos Soccer Fields.
Totalizing Flow Meter	Los Alamos Middle-School	Totalizing Flow Meter located on the transfer line between the North Mesa/Group 12 reclaimed wastewater storage tanks and the Los Alamos Middle-School.
Totalizing Flow Meter	Los Alamos Dog Park	Totalizing Flow Meter located on the transfer line between the North Mesa/Group 12 reclaimed wastewater storage tanks and the dog park.
Totalizing Flow Meter	Future Locations	Totalizing Flow Meter located on the transfer line between the North Mesa/Group 12 reclaimed wastewater storage tanks and future reuse locations within Los Alamos.
Totalizing Flow Meter	Stand-pipe	Totalizing Flow Meter located prior to the stand-pipe at the WWTF.
Totalizing Flow Meter	Line Flushing	Totalizing Flow Meter used to monitor the reclaimed domestic wastewater discharging from the hydrant during line flushing.
Totalizing Flow Meter	Fire Suppression	Totalizing Flow Meter used to monitor the reclaimed domestic wastewater discharging from the hydrant, located at the WWTF, and used for emergencies in the event of fires.



**New Mexico Environment Department Ground Water Quality Bureau
Discharge Permit Summary**

Ground Water Monitoring Locations

Type	Designation	Description & Comments
Monitoring Well	MW-1A	Located hydrologically downgradient of the closed Bayo Canyon WWTF's sludge drying beds.

Depth-to-Ground Water 59 feet
Total Dissolved Solids (TDS) 692 mg/L

Permit Information

Original Permit Issued August 29, 1991
Permit Renewal and Modification July 23, 2002
Permit Renewal and Modification March 19, 2008
Permit Renewal June 27, 2014
Permit Renewal and Modification December 6, 2019

Current Action
 Application Received
 Public Notice Published
 Permit Issued (Issuance Date)
 Permitted Discharge Volume

Permit Renewal
 June 5, 2024
 [not yet published]
 [issuance date]
 1,400,000 gallons per day

NMED Contact Information

Mailing Address Ground Water Quality Bureau
 P.O. Box 5469
 Santa Fe, New Mexico 87502-5469

GWQB Telephone Number (505) 827-2900

NMED Lead Staff Gerald Knutson
Lead Staff Telephone Number (505) 660-7189
Lead Staff Email gerald.knutson@env.nm.gov or pps.general@env.nm.gov