



MICHELLE LUJAN GRISHAM
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CERTIFIED MAIL – RETURN RECEIPT REQUESTED

April 2, 2026

Danette Cabber, Executive Director
Estancia Valley Solid Waste Authority
515 Allen Street, P.O. Box 736
Estancia, New Mexico 87016

RE: Draft Discharge Permit Renewal, DP-1708, Estancia Valley Solid Waste Authority Septage Dewatering and Disposal Facility

Dear Danette Cabber:

The New Mexico Environment Department (NMED) hereby provides notice to you of the proposed approval of Ground Water Discharge Permit Renewal, DP-1708, (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 samantha.peterson@env.nm.gov 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.

Thank you for your cooperation during the review process. Feel free to contact me with any questions at (505) 490-5282.

Sincerely,

**Samantha
Peterson**

Digitally signed by
Samantha Peterson
Date: 2026.04.02 11:24:53
-06'00'

Samantha Peterson, Water Resource Professional

Encl: Draft Discharge Permit Renewal, DP-1708

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/



**NEW MEXICO
ENVIRONMENT DEPARTMENT**

Ground Water Quality Bureau

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Santa Fe, NM 87502-5469
Phone (505) 827-2900 Fax (505) 827-2965
www.env.nm.gov



Draft: April 2, 2026

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

Facility Name: Estancia Valley Solid Waste Authority Septage Dewatering and Disposal Facility

Discharge Permit Number: DP-1708

Facility Location: 249 Sidewinder Road
Moriarty, New Mexico 87016

County: Torrance

Permittee: Estancia Valley Solid Waste Authority

Mailing Address: 515 Allen Street, P.O. Box 736
Estancia, New Mexico 87016

Facility Contact: Danette Cabber, Executive Director

Telephone Number/Email: 505-384-3062 / danette@evswa.com

Permitting Action: Renewal

Permit Issuance Date: DATE

Permit Expiration Date: DATE

NMED Permit Contact: Samantha Peterson

Telephone Number/Email: 505-490-5282 / samantha.peterson@env.nm.gov or
505-827-2900 / pps.general@env.nm.gov

Justin D. Ball
Chief, Ground Water Quality Bureau
New Mexico Environment Department

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ATTACHMENTS

Discharge Permit Summary
Groundwater Discharge Permit Guidance for Synthetically Lined Lagoons – Liner
Material and Site Preparation, Revision 0.0, May 2007
Surface Disposal Data Sheet (SDDS-Septage - <https://www.env.nm.gov/forms/>)

I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this groundwater discharge permit Renewal (Discharge Permit or DP-1708) to the Estancia Valley Solid Waste Authority (EVSWA) (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 EVSWA Septage Dewatering and Disposal Facility (Facility) 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 discharges domestic septage including portable toilet waste in volumes of up to 100,000 gallons per week to two synthetically lined impoundment dewatering systems. The Facility land applies domestic septage filtrate (the liquid fraction of domestic septage) in volumes of up to 7,000 gallons per week to ten-0.93-acre surface disposal cells on a rotational basis, or to the mortality compost area by spray irrigation with a tanker truck. Septage solids collected from the dewatering systems are periodically removed and transferred to the EVSWA registered composting operation (SWB #0130179C).

Discharge Permit Location Information:

Physical Address	249 Sidewinder Road, Moriarity, NM 87106
Nearest Town/City	Moriarty
Section, Township, Range	Section 23, Township 9 North, Range 10 East
County	Torrance
Depth to Groundwater	245 feet
Pre-Discharge TDS	820 mg/L

Discharge Permit Issuance History:

Original Permit Issuance	May 17, 2011
Permit Renewal	September 12, 2014
Permit Renewal	November 25, 2020
Permit Modification	January 17, 2025

The application (i.e., discharge plan) associated with this Discharge Permit consists of the materials submitted by the Permittee dated July 14, 2025, 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
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 discharge up to 100,000 gallons per week of domestic septage including portable toilet waste using two synthetically lined impoundment dewatering systems. This Discharge Permit also authorizes the Permittee to discharge up to 7,000 gallons per week of septage filtrate (the liquid fraction of domestic septage) to ten-0.93-acre surface disposal cells on a rotational basis or to the mortality compost area by spray irrigation with a tanker truck.

[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.	After completion of the new synthetically lined septage dewatering system #3 (SDS-Lagoon #3), the Permittee shall submit an up-to-date diagram of the layout of the entire Facility to NMED. The diagram shall include the following elements: • a north arrow; • the issuance date of the diagram; • all components of the wastewater treatment and disposal system; • all septage disposal cells and associated berms • berms separating the septage disposal area and the mortality compost area • all flow measurement devices; and • all wastewater sampling locations. 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. [Subsection C of 20.6.2.3106 NMAC, Subsection A of 20.6.2.3107 NMAC]
4.	A minimum of 90 days prior to construction of the SDS-Lagoon #3, the Permittee shall submit final construction plans and specifications for NMED's review of the proposed SDS-Lagoon #3. The construction plans and specifications shall bear the seal and signature of a licensed New Mexico professional engineer (pursuant to New Mexico Engineering and Surveying Practice Act and the rules promulgated under that authority) and shall include the supporting design calculations.

#	Terms and Conditions
	The submitted documentation shall include the following elements. a) Details for the construction of the SDS-Lagoon #3 and a liner consistent with the attachment titled <i>Groundwater Discharge Permit Guidance for Synthetically Lined Lagoons – Liner Material and Site Preparation</i>, Revision 0.0, May 2007. b) Wastewater system component(s) design, e.g., lift stations, valves, transfer lines, process units and associated details. c) Specifications for all equipment, materials and installation procedures the Permittee will use in the construction of the wastewater system. Prior to constructing the SDS-Lagoon #3 and its associated components, the Permittee shall obtain written verification from NMED that the plans and specifications meet the requirements of this Discharge Permit. [Subsections A and C of 20.6.2.1202 NMAC, Subsection C of 20.6.2.3106 NMAC, Subsection C of 20.6.2.3107 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]
5.	Prior to discharging to the SDS-Lagoon #3, the Permittee shall complete construction in accordance with the final construction plans and specifications required by this Discharge Permit. The Permittee shall notify NMED at least five working days prior to commencement of construction to allow NMED personnel to be onsite for inspection during construction. [Subsections A and C of 20.6.2.1202 NMAC, Subsection C of 20.6.2.3109 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]
6.	Within 30 days of completing construction of the SDS-Lagoon #3, the Permittee shall submit record drawings to NMED that bear the seal and signature of a licensed New Mexico professional engineer (pursuant to the New Mexico Engineering and Surveying Practice Act and the rules promulgated under that authority) for the constructed SDS-Lagoon #3. [Subsections A and C of 20.6.2.1202 NMAC, Subsection C of 20.6.2.3109 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]
7.	Five business days prior to discharging to the SDS-Lagoon #3, the Permittee shall submit written notification to NMED stating the date the discharge is to commence. [Subsection A of 20.6.2.3107 NMAC]
8.	Within 90 days following the issuance date of this Discharge Permit (by DATE), the Permittee shall install 24-inch berms around each of the 0.93-acre disposal cells within the septage disposal area to prevent surface water run-on and run-off. Documentation of

#	Terms and Conditions
	berm installation shall consist of a narrative statement describing the berm locations and date-stamped photographs. The Permittee shall submit the documentation to NMED in the next required periodic monitoring report. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
9.	Within 30 days following the issuance of this discharge permit (by DATE), the Permittee shall cease discharging via the sprinkler system to the septage disposal area and shall henceforth only discharge to the septage disposal area utilizing a water truck with known tank volume or weight. The Permittee shall commence all closure actions specified for the sprinkler system in the Closure Plan section of this Discharge Permit. [Subsection A of 20.6.2.3107 and Subsection H of 20.6.2.3109 NMAC]
10.	Within 30 days of the issuance date of this Discharge Permit (by DATE), the Permittee shall post the following signs at the following locations: • Signs posted at the Facility entrance and every 500 feet along the Facility boundary that state: "Notice: Waste Disposal Area - KEEP OUT" and "Aviso: Área de Disposición - NO ENTRAR". • A sign posted at the entrance gate with the name of the Facility's contact person, office phone number of the contact person, emergency contact phone number for the Facility, and physical location of the Facility including township, range, and sections. • A sign at the boundary of each disposal cell to identify the disposal cell number. All signs shall be weatherproof and remain legible for the term of this Discharge Permit. The Permittee shall submit documentation demonstrating sign installation that consists of date stamped photographs to NMED in the next required periodic monitoring report. [NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC]
11.	Within 180 days following the issuance date of this Discharge Permit (by DATE), the Permittee shall measure the thickness of the settled solids in Septage Dewatering System #2 (SDS-Lagoon #2). The Permittee shall report the results of the solids thickness measurements to NMED in the next required periodic monitoring report. The Permittee shall measure the thickness of settled solids in accordance with the following procedure. a) Divide the total surface area of the treatment impoundment into nine equal sub-areas.

#	Terms and Conditions
	b) Obtain one measurement (to the nearest half foot) using a settled solids measurement device (e.g., core sampler) per sub-area. c) Calculate the average of the nine measurements. In the event that the measured settled solids exceed one-third of the maximum liquid depth in the impoundment, the Permittee shall implement the Contingency Plan set forth in this Discharge Permit. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]

Operating Conditions

#	Terms and Conditions
12.	To prevent surface water run-on and run-off at the Facility, the Permittee shall maintain earthen berms surrounding the perimeter of the Facility and in between disposal cells that are a minimum of 24 inches above natural grade. The Permittee shall maintain all berms and trenches until termination of this Discharge Permit and the Permittee has completed all closure actions required by this Discharge Permit. The Permittee shall inspect the berms on a regular basis and after any major rainfall event and repair as necessary. The Permittee shall keep a log of the inspection findings and repairs that includes a date of the inspection and the name of the person responsible for the inspection and shall make the log available to NMED upon request. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
13.	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 three strand and locking gates. The Permittee shall maintain the fences to serve the stated purpose throughout the term of this Discharge Permit. [Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]
14.	The Permittee shall maintain the following signs at the following locations:

#	Terms and Conditions
	• Signs posted at the Facility entrance and every 500 feet along the Facility boundary that state: "Notice: Waste Disposal Area - KEEP OUT" and "Aviso: Área de Disposición - NO ENTRAR". • A sign posted at the entrance gate with the name of the Facility's contact person, office phone number of the contact person, emergency contact phone number for the Facility, and physical location of the Facility including township, range, and sections. • A sign at the boundary of each cell to identify the cell number and the authorized waste type discharged in the cell. All signs shall be weatherproof and legible for the term of this Discharge Permit. [Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]
15.	This Discharge Permit authorizes the Permittee to accept domestic septage. The Permittee may not receive any other waste types at the Facility. The Permittee shall not combine different waste types. The Permittee shall dispose of waste in separate cells that receive only a single designated waste type. [Subsection C of 20.6.2.3109 NMAC]
16.	The Permittee shall maintain the impoundment liners to avoid conditions that could affect the liner or the structural integrity of the impoundments. Characterization of such conditions may include the following: • erosion damage; • animal burrows or other damage; • the presence of vegetation including aquatic plants, weeds, woody shrubs or trees growing within five feet of the top inside edge of a sub-grade impoundment, within five feet of the toe of the outside berm of an above-grade impoundment, or within the impoundment itself; • the presence of large debris or large quantities of debris in the impoundment; • evidence of seepage; or • evidence of berm subsidence. The Permittee shall routinely control vegetation growing around the impoundments by mechanical removal that is protective of the impoundment liner. The Permittee shall visually inspect the impoundments and surrounding berms on a monthly basis to ensure proper maintenance. In the event that an inspection reveals any evidence of damage that threatens the structural integrity of an impoundment berm or

#	Terms and Conditions
	liner, or that may result in an unauthorized discharge, the Permittee shall implement the Contingency Plan set forth in this Discharge Permit. The Permittee shall create and maintain a log of all impoundment inspections which describes the date of the inspection, any findings and repairs and the name of the person responsible for the inspection. The Permittee shall make the log available to NMED upon request. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
17.	The Permittee shall preserve a minimum of two feet of freeboard, i.e., the distance between the highest calculated liquid level in the impoundments and the liquid level which would result in the release of stored liquid from the impoundments. In the event that the Permittee determines that it cannot preserve two feet of freeboard in the impoundment, the Permittee shall implement the Contingency Plan set forth in this Discharge Permit. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
18.	The Permittee shall visually inspect the ten-0.93 disposal cells and the mortality compost area (disposal system) semi-annually to ensure proper maintenance. The Permittee shall correct any conditions that indicate damage to the disposal system. The Permittee shall ensure conditions corrected include erosion damage, animal activity/damage, woody shrubs, evidence of seepage, or any other condition indicating damage. The Permittee shall keep a log of the inspections that includes a date of the inspection, any findings and repairs, and the name of the inspector. The Permittee shall make the log available to NMED upon request. In the event of a failure of the disposal system, the Permittee shall implement the Contingency Plan set forth in this Discharge Permit. [Subsections A and D of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
19.	The Permittee shall inspect and clean the liquids collection sump, riser pipe, and associated pumps/equipment on a quarterly basis to prevent pump failure. The Permittee shall maintain a record of inspections, repairs, and cleanings. The Permittee shall make the record available to NMED upon request. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]

#	Terms and Conditions
20.	The Permittee shall discharge domestic septage filtrate to the disposal cells such that the amount of total nitrogen discharged does not exceed 200 pounds per acre in any 12-month period. The Permittee shall distribute septage evenly throughout the entire disposal area. The Permittee shall discharge into each disposal cell in a manner that minimizes ponding of septage. [Subsection C of 20.6.2.3109 NMAC]
21.	The Permittee shall not discharge liquid waste during periods of precipitation or when surface soils are frozen or saturated. The Permittee may store waste on-site in tanker trucks during these periods. [Subsection C of 20.6.2.3109 NMAC]
22.	To achieve a manner of vector attraction reduction (VAR) as described in 40 CFR part 503.33(b), the Permittee shall incorporate the domestic septage filtrate (including portable toilet waste) into the soil by disking within six hours following application via spray truck. The Permittee shall minimize ponding of septage. Treatment and disposal of domestic septage shall be in accordance with requirements set forth in 40 CFR Part 503. [Subsections B and C 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D, 40 CFR 503]
23.	The Permittee shall inspect the Facility weekly and collect any residual solid waste (trash) on the Facility site. The Permittee shall dispose of the collected materials in a manner consistent with all local, state and federal regulations. The Permittee shall keep a log of the inspections that includes a date of the inspection and the name of the person responsible for the inspection. The Permittee shall make the log available to NMED upon request. [Subsection A of 20.6.2.3107 NMAC, Subsections B and C of 20.6.2.3109 NMAC]

B. MONITORING AND REPORTING

#	Terms and Conditions
24.	The Permittee shall conduct the monitoring, reporting, and other requirements listed below in accordance with the monitoring requirements of this Discharge Permit. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]

#	Terms and Conditions
25.	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
26.	Semi-annual monitoring - The Permittee shall perform monitoring and other Permit required actions during the following periods and shall submit semi-annual reports to NMED by the following due dates: • January 1st through June 30th – due by August 1st; and • July 1st through December 31st – due by February 1st. [Subsection A of 20.6.2.3107 NMAC]

Facility Monitoring Conditions

#	Terms and Conditions
27.	The Permittee shall on a monthly basis estimate the volume discharged to <i>each</i> disposal cell within the septage disposal area by tracking the number of gallons each tanker truck loads and applies to each disposal cell. The Permittee shall maintain a log that records the date that discharges occur to <i>each</i> disposal cell and the number of tanker truck loads applied to each disposal cell. The Permittee shall use the volume of the tanker truck tank and the log to calculate the total calendar monthly volume of domestic septage filtrate discharged to <i>each</i> disposal cell. The Permittee shall also use the monthly volume discharged to <i>each</i> disposal cell on the SDDS (copy enclosed) to calculate nitrogen loading. The Permittee shall submit a copy of the log to NMED in the monitoring reports due by August 1st and February 1st each year. [Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]
28.	The Permittee shall retain on-site a manifest for each load of domestic septage discharged to the Septage Dewatering Systems (SDS-Lagoon #2 and SDS-Lagoon #3). The manifest shall record the following information: • date of receipt;

#	Terms and Conditions
	• name of the hauling company; • name and address of the waste origin; • type of waste; • volume of waste; • confirmation of inspection for acceptable waste type; • signature of person conducting the inspection; and • Septage Dewatering System identification where the domestic septage was discharged. The Permittee shall make the manifests available for inspection by NMED upon request. The Permittee shall submit a summary listing the information from each manifest for wastes received during the reporting period to NMED in the semi-annual monitoring reports. [NMSA 1978, § 74-6-5.D, Subsection A 20.6.2.3107 NMAC]
29.	The Permittee shall on a monthly basis complete a Surface Disposal Data Sheet for Septage (SDDS-Septage, attached) to document the amount of nitrogen discharged to each surface disposal cell. The Permittee shall complete a SDDS for each cell and shall reflect the volume and total nitrogen concentration of waste discharged to the disposal cells for each month. To determine the amount of nitrogen in septage applied, the Permittee may assume a total nitrogen concentration of 600 mg/L, based on average characteristics of septage (Guide to Septage Treatment and Disposal, EPA/625/R-94-002), or may use a total nitrogen value from the laboratory analysis of a composite sample from a minimum of six waste loads semi-annually using a sampling protocol approved by NMED prior to sample collection. The Permittee shall not adjust the nitrogen content to account for volatilization or mineralization processes. If the Permittee derives the total nitrogen value from laboratory analysis, the Permittee shall submit the analytical results, including the laboratory QA/QC summary report and Chain of Custody, to NMED in the semi-annual monitoring reports. The Permittee shall submit the SDDSs, or a statement that no surface disposal occurred within the cells, to NMED in the semi-annual monitoring reports. [Subsection A of 20.6.2.3107 and Subsection H of 20.6.2.3109 NMAC]

C. CONTINGENCY PLAN

#	Terms and Conditions
30.	In the event that groundwater exceeds a groundwater protection standard identified in Section 20.6.2.3103 NMAC as a result of this discharge, 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 following approval by NMED. The NMED may 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. [20.6.2.3103 NMAC, Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]
31.	In the event that the Facility exceeds the authorized discharge volume set in this Discharge Permit, the Permittee shall initiate the following Contingency Plan. <u>Contingency Plan</u> a) Notify NMED within seven days of the discovery of the discharge volume exceedance that the Facility exceeded the authorized discharge volume. b) The Permittee shall conduct a physical inspection of the discharge system, i.e., inflow and infiltration issues, collection system failures, etc., and the volume measuring method 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 discharge 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 discharge volume increase. [Subsection A of 20.6.2.3107 NMAC]
32.	In the event that a SDDS for any disposal cell shows that the amount of nitrogen applied in any 12-month period exceeds 200 pounds per acre, the Permittee shall propose the reduction of nitrogen loading to the affected cell by submitting a Corrective Action Plan (CAP) to NMED for approval. The CAP shall include a schedule for completion of

#	Terms and Conditions
	corrective actions and submitted within 90 days following the end of the monitoring period in which the exceedance occurred. The Permittee shall implement the CAP following approval by NMED. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
33.	In the event that the laboratory analytical data results of the liquid present in the leak detection sump indicates that the chemical content of the liquid is consistent with the contents of the evaporative impoundment, the Permittee shall submit a CAP to NMED which evaluates the primary liner leakage rate and proposes options for stopping or reducing leakage. The Permittee shall submit the CAP to NMED for approval within 60 days of the receipt of the analytical results demonstrating consistency with the liquid in the sump and the evaporative impoundment. [Subsection A of 20.6.2.3107 NMAC]
34.	In the event that an inspection reveals significant damage has occurred or is likely to affect the structural integrity of an impoundment or liner or their ability to contain contaminants, the Permittee shall propose the repair or replacement by submitting a CAP to NMED for approval. The Permittee shall submit the CAP to NMED within 30 days after discovery of the damage or following notification from NMED that significant damage is evident. The Permittee shall ensure the CAP includes a schedule for completion of corrective actions. The Permittee shall initiate implementation of the CAP following approval by NMED. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
35.	In the event that an impoundment cannot preserve a minimum of two feet of freeboard, the Permittee shall take actions to restore the required freeboard as authorized by this Discharge Permit and all applicable local, state, and federal regulations. In the event that two feet of freeboard cannot be restored within a period of 72 hours following discovery, the Permittee shall propose actions to restore two feet of freeboard by submitting a short-term CAP to NMED for approval. Examples of short-term corrective actions include the pumping and hauling of excess wastewater from the impoundment or reducing the volume of wastewater discharged to the impoundment. The Permittee shall ensure the CAP includes a schedule for completion of corrective actions. The Permittee shall submit the CAP within 15 days following the date the Permittee or the NMED discover the exceedance. The Permittee shall implement the CAP following NMED approval.

#	Terms and Conditions
	In the event that the short-term corrective actions fail to restore two feet of freeboard, the Permittee shall submit to NMED a proposal for permanent corrective actions in a long-term CAP. The Permittee shall submit the long-term CAP within 90 days following failure of the short-term CAP. Examples of corrective actions include the installation of an additional storage impoundment or a significant and permanent reduction in the volume of wastewater discharged to the impoundment. The Permittee shall ensure the long-term CAP includes a schedule for completion of corrective actions. The Permittee shall implement the CAP following NMED approval. [Subsection A of 20.6.2.3107 NMAC]
36.	In the event the average solids accumulation exceeds one-third of the maximum liquid depth in the impoundments, the Permittee shall propose a plan for the removal and disposal of the solids. The Permittee shall submit the solids removal and disposal plan to NMED for approval within 120 days following discovery and include the following information. a) A method for removal of the solids to a depth of less than six inches throughout the treatment impoundment in a manner that is protective of the impoundment liner. b) A description of how the Permittee will contain, transport, and dispose of the solids in accordance with all local, state, and federal regulations, including 40 CFR Part 503. c) A schedule for completion of the solids removal and disposal project. The Permittee shall initiate implementation of the plan following approval by NMED. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
37.	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 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. Within <u>24 hours</u> following discovery of the unauthorized discharge, the Permittee shall verbally notify NMED and provide the following information. 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.

#	Terms and Conditions
	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. 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. 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. 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. 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. 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. [20.6.2.1203 NMAC]
38.	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. [Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]

D. CLOSURE PLAN

Closure Actions with Implementation Deadlines

#	Terms and Conditions
39.	Within 180 days of the issuance of this discharge permit (by DATE), the Permittee shall complete the following closure measures for the septage disposal area sprinklers: a) Disconnect the lines leading from any pumps in the Septage Dewatering Systems (SDS-Lagoon #2 and SDS-Lagoon #3, as applicable) to the sprinklers and remove the sprinklers from the septage disposal area so that a discharge from the sprinklers can no longer occur. The Permittee shall verify that this closure requirement has been met with date-stamped photographic evidence or an associated NMED inspection. [Subsection A of 20.6.2.3107 NMAC]

Permanent Facility Closure Conditions

#	Terms and Conditions
40.	The Permittee shall complete the following closure measures in the event they are proposing to close a surface disposal cell: a) Notify NMED of the closure of a surface disposal cell. b) Within 60 days of ceasing to discharge to a disposal cell, backfill the disposal cell(s) with clean fill (as necessary) and re-grade to allow for positive storm water drainage. c) Re-vegetate the cells and disturbed areas at the Facility by establishing a vegetative cover equal to 70% of the native perennial vegetative cover consisting of at least three native plant species including at least one grass, but not including noxious weeds. The Permittee shall maintain the vegetative cover through two consecutive growing seasons. The Permittee shall demonstrate appropriate actions for closure have been completed with date stamped photographic evidence or an associated NMED inspection. [Subsection A of 20.6.2.3107 NMAC]
41.	The Permittee shall perform the following closure measures in the event the Facility, or a component thereof, is proposed to be permanently closed. Within <u>60 days</u> of ceasing to discharge to the impoundments, the Permittee shall remove all sump pumps and associated equipment so that a discharge can no longer occur.

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	Within <u>60 days</u> of ceasing to discharge to the impoundments, the Permittee shall evaporate or drain all wastewater from the impoundment and any other wastewater system component and dispose of it in accordance with all local, state, and federal regulations. Within <u>90 days</u> of ceasing to discharge to the impoundments, the Permittee shall submit a sludge removal and disposal plan to NMED for approval. The Permittee shall implement the plan within 30 days following approval by NMED. The sludge removal and disposal plan shall include the following information. - The estimated volume and dry weight of sludge planned for removal and disposal, including measurements and calculations. - Analytical results for samples of the sludge taken from the impoundment for TKN, NO₃-N, percent total solids, and any other parameters tested (reported in mg/kg, dry weight basis). - The method of sludge <i>removal</i> from the impoundments. - The method of <i>disposal</i> for all the sludge (and its contents) removed from the impoundment(s). The method shall comply with all local, state and federal regulations, including 40 CFR Part 503. <i>Note: A proposal that includes the surface disposal of sludge may be subject to Groundwater Discharge Permitting requirements pursuant to 20.6.2.3104 NMAC that are separate from the requirements of this Discharge Permit.</i> - A schedule for completion of sludge removal and disposal not to exceed two years from the date discharge to the impoundments ceased. Within <u>one year</u> following completion of the sludge removal and disposal, the Permittee shall complete the following closure measures. - Remove all lines leading to and from the impoundments or permanently plug and abandon the lines in place. - Remove or demolish any other wastewater system components and re-grade area with suitable fill to blend with surface topography, promote positive drainage and prevent ponding. - Characterize, remove, and dispose of all solids from the impoundments in accordance with local, state, and federal regulations, and maintain a record of solids transported for off-site disposal, including the volume of solids transported and the disposal location. - Remove and dispose of the impoundment liners at a solid waste facility. If there is evidence of contaminated soil below the liners, assess the impact, report that assessment to NMED, and mitigate the impacts following NMED approval. - Fill the impoundment(s) with suitable fill.

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	f) Re-grade the impoundment site and the locations of ancillary equipment, e.g., influent piping, to blend with surface topography, promote positive drainage and prevent ponding. 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. [Subsection A of 20.6.2.3107 NMAC, Subsection D of 20.6.2.4103 NMAC, 40 CFR Part 503]

E. GENERAL TERMS AND CONDITIONS

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42.	RECORD KEEPING - The Permittee shall maintain a written record of the following: • 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: ○ the dates, location and times of sampling or field measurements;

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	○ 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. 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. [Subsections A and D of 20.6.2.3107 NMAC]
43.	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. [Subsection A of 20.6.2.3107 NMAC]
44.	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. 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. 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.

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	[Subsection D of 20.6.2.3107 NMAC, NMSA 1978, §§ 74-6-9.B and 74-6-9.E]
45.	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. [Subsection D of 20.6.2.3107 NMAC]
46.	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. [Subsection C of 20.6.2.3107 NMAC, Subsections E and G of 20.6.2.3109 NMAC]
47.	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. 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. [Subsections A and C of 20.6.2.1202 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]
48.	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

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	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. [20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10 and 74-6-10.1]
49.	CRIMINAL PENALTIES – No person shall: • 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. 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 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. [20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10.2.A through 74-6-10.2.F]
50.	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. [NMSA 1978, § 74-6-5.L]
51.	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

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	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. [20.6.2.3112 NMAC, NMSA 1978, § 74-6-5.O]
52.	TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this Facility or any portion thereof, the Permittee shall: • 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. 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. [20.6.2.3111 NMAC]
53.	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. 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. [Subsection F of 20.6.2.3114 NMAC, NMSA 1978, § 74-6-5.K]



New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

Facility Information

Facility Name Estancia Valley Solid Waste Authority Septage Dewatering and Disposal Facility

Discharge Permit Number DP-1708

Legally Responsible Party Estancia Valley Solid Waste Authority
Danette Cabber, Executive Director
515 Allen Street
P.O. Box 736
Estancia, NM 87016
(505) 384-3062

Treatment, Disposal and Site Information

Primary Waste Type Industrial

Facility Type Septage Disposal Facility

Discharge Locations

Type	Designation	Description & Comments
Septage Dewatering System	SDS-Lagoon #2	60-mil smooth HDPE liner with an 8" concrete slab on top and 60-mil HDPE secondary liner for leak detection. The liquids collection sump houses a submersible pump with associated controls.
Septage Dewatering System	SDS-Lagoon #3	60-mil smooth HDPE liner with an 8" concrete slab on top and 60-mil HDPE secondary liner for leak detection. The liquids collection sump houses a submersible pump with associated controls. To be installed.
Disposal Area	Surface Disposal Area	Approximately 9.3 acres. Receiving liquid from the Septage Dewatering Systems via spray application via tanker truck over ten, 0.93-acre cells.
Disposal Area	Mortality Compost Area	Approximately 3 acres. Shredded green waste and animal carcasses/offal windrows receiving liquid addition from the Septage Dewatering Systems via tanker truck.

Flow Metering Locations

Type	Designation	Description & Comments
Certified Truck Scales	EVSWA Scales	A conversion factor of 8.5 pounds per gallon or 235 gallons per ton minus tare weight is used to determine septage volume.

Depth-to-Ground Water 245 feet

Total Dissolved Solids (TDS) 820 mg/L



New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

Permit Information

Original Permit Issued	May 17, 2011
Permit Renewal	September 12, 2014
Permit Renewal	November 25, 2020
Permit Modification	January 17, 2025

Current Action

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

Renewal

July 14, 2025
DATE
DATE
100,000 gallons per day

NMED Contact Information

Mailing Address

Ground Water Quality Bureau
P.O. Box 5469
Santa Fe, New Mexico 87505

GWQB Telephone Number

(505) 827-2900

NMED Lead Staff

Lead Staff Telephone Number

Lead Staff Email

Samantha Peterson

(505) 490-5282

samantha.peterson@env.nm.gov or pps.general@env.nm.gov

Groundwater Discharge Permit Guidance for Synthetically Lined Lagoons – Liner Material and Site Preparation

This guidance document represents minimum liner material and site preparation requirements for wastewater treatment, storage and evaporation lagoons. These requirements do not apply to lagoons storing hazardous wastes or high strength waste. The Ground Water Quality Bureau may impose additional requirements (e.g., double-lined lagoons with leak detection) for facilities discharging hazardous or high strength waste to lagoons through the development of specific Discharge Permit conditions for such facilities.

Liner Material Requirements:

1. The liner shall be chemically compatible with any material that will contact the liner.
2. The liner material shall be resistant to deterioration by sunlight if any portion of the liner will be exposed.
3. Synthetic liner material shall be of sufficient thickness to have adequate tensile strength and tear and puncture resistance. Under no circumstances shall a synthetic liner material less than 40 mils in thickness be accepted. Any liner material shall be certified by a licensed New Mexico professional engineer and approved by the New Mexico Environment Department (NMED) prior to its installation.

Lagoon Design and Site Preparation Requirements:

1. The system shall be certified by a licensed New Mexico professional engineer and approved by NMED prior to installation.
2. Inside slopes shall be a maximum of 3 (horizontal): 1 (vertical), and a minimum of 4 (horizontal); 1 (vertical).
3. Lagoon volume shall be designed to allow for a minimum of 24 inches of freeboard.
4. The liner shall be installed with sufficient liner material to accommodate shrinkage due to temperature changes. Folds in the liner are not acceptable.
5. To a depth of at least six inches below the liner, the sub-grade shall be free of sharp rocks, vegetation and stubble. In addition, liners shall be placed on a sub-grade of sand or fine soil. The surface in contact with the liner shall be smooth to allow for good contact between liner and sub-grade. The surface shall be dry during liner installation.
6. Sub-grade shall be compacted to a minimum of 90% of standard proctor density.
7. The minimum dike width shall be eight feet to allow vehicle traffic for maintenance.
8. The base of the pond shall be as uniform as possible and shall not vary more than three inches from the average finished elevation.
9. Synthetic liners shall be anchored in an anchor trench in the top of the berm. The trench shall be a minimum of 12 inches wide, 12 inches deep and shall be set back at least 24 inches from the inside edge of the berm.
10. If the lagoon is installed over areas of decomposing organic materials or shallow groundwater, a liner vent system shall be installed.
11. Any opening in the liner through which a pipe or other fixture protrudes shall be properly sealed. Liner penetrations shall be detailed in the construction plans and record drawings.
12. A synthetic liner shall not be installed in temperatures below freezing.
13. The liner shall be installed or supervised by an individual that has the necessary training and experience as required by the liner manufacturer.
14. All manufacturer's installation and field seaming guidelines shall be followed.
15. All synthetic liner seams shall be field tested by the installer and verification of the adequacy of the seams shall be submitted to NMED along with the record drawings.
16. Concrete slabs installed on top of the synthetic liner for operational purposes shall be completed in accordance with manufacturer and installer recommendations to ensure liner integrity.

Surface Disposal Data Sheet (SDDS)
Septage

New Mexico Environment Department
 Ground Water Quality Bureau



DATE: MONITORING REPORT DUE DATE:

FACILITY NAME: REPORTING PERIOD (i.e., from ___ to ___):

DP#: SEPTAGE TOTAL NITROGEN CONCENTRATION (mg/L):²

DISCHARGE CELL DESIGNATION:¹ # ACRES IN CELL:

MONTH & YEAR OF DISCHARGE ³	A VOLUME OF SEPTAGE DISCHARGED gallons	B SEPTAGE DISCHARGED (A ÷ 1,000,000) million gallons (MG)	C TOTAL NITROGEN DISCHARGED (TN concentration x B x 8.34 lb/gal) lbs N	D NITROGEN LOADING (C ÷ # acres) lbs N/acre	NOTES ⁴
<i>example assuming a 10-acre cell and a TN of 600 mg/L: MM - YY</i>	30,000 gallons	30,000 gal ÷ 1,000,000 = 0.03 MG	600 mg/L x 0.03 MG x 8.34 lb/gal = 150 lbs N	150 lbs ÷ 10 acres = 15 lb N/ac	
		0.00	0		
		0.00	0		
		0.00	0		
		0.00	0		
		0.00	0		
		0.00	0		
		0.00	0		
		0.00	0		
		0.00	0		
		0.00	0		
		0.00	0		
		0.00	0		
		0.00	0		
	0	TOTALS	0		

¹One SDDS form should be used for *each* cell designation.

²Assume 600 mg/L **or** report analytical results of a composite septage sample (refer to the Discharge Permit for details).

³Each form must reflect the *most recent* 12 months of septage discharge.

⁴In the event discharge did not occur, please report "no discharge" in the NOTES column.