

GROUND WATER DISCHARGE PERMIT RENEWAL

City of Artesia Wastewater Treatment Plant, DP-258

I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this Discharge Permit Renewal (Discharge Permit), DP-258, to the City of Artesia (permittee) pursuant to the New Mexico Water Quality Act (WQA), NMSA 1978 §§74-6-1 through 74-6-17, and the New Mexico Water Quality Control Commission (WQCC) Regulations, 20.6.2 NMAC.

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

The activities which produce the discharge, the location of the discharge, and the quantity, quality and flow characteristics of the discharge are briefly described as follows:

Up to 3.0 million gallons per day of municipal wastewater is discharged to the City of Artesia WWTP for treatment, followed by disposal and reuse. Treated and disinfected wastewater from the WWTP is discharged directly to the Pecos River pursuant to NPDES permit NM0022268. Reclaimed wastewater from the WWTP is discharged as follows:

1. To 160 acres of property associated with the WWTP for sprinkler irrigation as authorized by this Discharge Permit; or
2. To a clay-lined lagoon for storage from which reclaimed wastewater is pumped to the following locations:
 - a. A storage lagoon at Artesia Country Club, as authorized by Discharge Permit, DP-375.
 - b. One clay-lined storage lagoon and one synthetically-lined storage lagoon at JC Park as authorized by this Discharge Permit. Reclaimed wastewater discharged from the storage lagoons is used to sprinkler irrigate parks, athletic fields, landscaping and school yards, at JC Park (154 acres), Eagle Draw (54.5 acres), Roberts Park (40 acres) and Chase Complex (6.4 acres) as authorized by this Discharge Permit.

Grit and screenings collected at the WWTP are discharged to a drying bed prior to being hauled off-site to Sand Point Landfill. The discharge contains water contaminants or toxic pollutants which may be elevated above the standards of Section 20.6.2.3103 NMAC. The facility is located at 1702 N Haldeman Road, Artesia, in Sections 2, 7, and 8, T17S, R26E, and Sections 6 and 24, T17S, R25E, Eddy County. Ground water most likely to be affected is at a depth of approximately 9 - 11 feet and has a total dissolved solids concentration of approximately 2,000 milligrams per liter.

The original Discharge Permit was issued on May 16, 1983 and subsequently renewed and/or modified on June 10, 1988, July 30, 1993, April 1, 1999, and March 21, 2005. The permittee's application consists of the materials submitted by Smith Engineering on behalf of the permittee

dated December 2, 2009. The discharge shall be managed in accordance with all conditions and requirements of this Discharge Permit.

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

Issuance of this Discharge Permit does not relieve the permittee of the responsibility to comply with the WQA, WQCC Regulations, and any other applicable federal, state and/or local laws and regulations, such as zoning requirements and nuisance ordinances.

The following abbreviations may be used in this Discharge Permit:

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

II. FINDINGS

In issuing this Discharge Permit, NMED finds:

1. The permittee is discharging effluent or leachate from the facility so that such effluent or leachate may move directly or indirectly into ground water within the meaning of Section 20.6.2.3104 NMAC.
2. The permittee is discharging effluent or leachate from the facility so that such effluent or leachate may move into ground water of the State of New Mexico which has an existing concentration of 10,000 milligrams per liter or less of total dissolved solids within the meaning of Subsection A of 20.6.2.3101 NMAC.

3. The discharge from the facility is not subject to any of the exemptions of Section 20.6.2.3105 NMAC.

III. CONDITIONS

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

OPERATIONAL PLAN

| # | Terms and Conditions | | | | | | | | | | | | |
|--------------------------|--|----------------|--------------------------|----------------|---------|--------------------------|-----------------------|-----|-----------------------|--------------------|-----|----------------|----------------|
| 1. | The permittee shall implement the following operational plan to ensure compliance with Title 20, Chapter 6, Parts 1 and 2 NMAC. [20.6.2.3106.C NMAC, 20.6.2.3107 NMAC] | | | | | | | | | | | | |
| 2. | The permittee shall operate in a manner such that standards and requirements of Sections 20.6.2.3101 and 20.6.2.3103 NMAC are not violated. [20.6.2.3101 NMAC, 20.6.2.3103 NMAC] | | | | | | | | | | | | |
| 3. | <p>The permittee is authorized to treat up to 3.0 million gallons per day of municipal wastewater at the City of Artesia WWTP, which includes four 650,000 gallon aeration basins and two final clarifiers, an ultraviolet (UV) system for disinfection, and a WWTP storage lagoon. Treated and disinfected wastewater from the WWTP is discharged directly to the Pecos River pursuant to NPDES permit NM0022268. Reclaimed wastewater from the WWTP is discharged as follows:</p> <ol style="list-style-type: none"> 1. To 160 acres of property associated with the WWTP for sprinkler irrigation as authorized by this Discharge Permit; or 2. To a clay-lined lagoon for storage from which reclaimed wastewater is pumped to the following locations: <ol style="list-style-type: none"> a. A storage lagoon at Artesia Country Club, as authorized by Discharge Permit, DP-375. b. One clay-lined storage lagoon and one synthetically-lined storage lagoon at JC Park as authorized by this Discharge Permit. Reclaimed wastewater discharged from the storage lagoons is used to sprinkler irrigate parks, athletic fields, landscaping and school yards, at JC Park (154 acres), Eagle Draw (54.5 acres), Roberts Park (40 acres) and Chase Complex (6.4 acres) as authorized by this Discharge Permit. <p>Grit and screenings collected at the WWTP are discharged to a drying bed prior to being hauled off-site to Sand Point Landfill. [20.6.2.3104 NMAC, 20.6.2.3106 NMAC]</p> | | | | | | | | | | | | |
| 4. | <p>Reclaimed wastewater discharged following the chlorine contact chamber or UV disinfection system shall not exceed the following limitations:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Test</th> <th style="text-align: center;">30-day geometric mean</th> <th style="text-align: center;">30-day average</th> <th style="text-align: center;">maximum</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Fecal coliform bacteria:</td> <td style="text-align: center;">100 Org/100 mL</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">200 Org/100 mL</td> </tr> <tr> <td style="text-align: center;">BOD₅:</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">30 mg/L</td> <td style="text-align: center;">45 mg/L</td> </tr> </tbody> </table> | Test | 30-day geometric mean | 30-day average | maximum | Fecal coliform bacteria: | 100 Org/100 mL | N/A | 200 Org/100 mL | BOD ₅ : | N/A | 30 mg/L | 45 mg/L |
| Test | 30-day geometric mean | 30-day average | maximum | | | | | | | | | | |
| Fecal coliform bacteria: | 100 Org/100 mL | N/A | 200 Org/100 mL | | | | | | | | | | |
| BOD ₅ : | N/A | 30 mg/L | 45 mg/L | | | | | | | | | | |

| | | | | |
|----|---|-----|--------------|--------------|
| | TSS: | N/A | 30 mg/L | 45 mg/L |
| | UV Transmissivity: | N/A | Monitor Only | Monitor Only |
| | Total Nitrogen: | N/A | N/A | 10 mg/L |
| | [20.6.2.3109 NMAC] | | | |
| 5. | <p>Within 365 days of the effective date of this Discharge Permit (by date), the permittee shall construct the proposed wastewater treatment system according to the final construction plans and specifications submitted to NMED on December 2, 2009 or in accordance with subsequent plans and specifications approved by NMED. The permittee shall notify NMED at the commencement of construction to allow NMED personnel to be onsite for inspection during the construction phase. Record drawings of the finished wastewater treatment facility shall be submitted to NMED within 30 days of completion. A licensed New Mexico professional engineer shall certify all construction plans and specifications, supporting design calculations, and record drawings of the wastewater treatment system. [20.6.2.3109 NMAC]</p> | | | |
| 6. | <p>The permittee shall maintain fences around the wastewater treatment facility to control public access. The fences shall be constructed in a manner which prevents access by the general public and animals such as dogs (e.g., chain link, field fencing or locking lids) and shall be maintained throughout the term of this Discharge Permit. [20.6.2.3109 NMAC]</p> | | | |
| 7. | <p>The permittee shall maintain signs at the facility entrance and other areas where public contact is possible indicating that the water is not potable. All signs shall remain visible and legible for the term of this Discharge Permit. [20.6.2.3109 NMAC]</p> | | | |
| 8. | <p>The permittee shall maintain signs in English and Spanish at above ground areas receiving reclaimed wastewater. The signs shall be posted at the entrance and/or at other locations where public access may occur and shall state: NOTICE: THIS AREA IS IRRIGATED WITH RECLAIMED WASTEWATER - DO NOT DRINK. AVISO: ESTA ÁREA ESTÁ REGADA CON AGUAS NEGRAS RECOBRADAS - NO TOMAR. Alternate wording and/or graphics may be submitted for NMED approval. [20.6.2.3107 NMAC, 20.6.2.3109 NMAC]</p> | | | |
| 9. | <p>The permittee shall meet the following general requirements for above ground use of reclaimed domestic wastewater:</p> <ol style="list-style-type: none"> The permittee shall maintain signs in English and Spanish at above ground areas receiving reclaimed wastewater. All signs shall remain visible and legible for the term of this Discharge Permit. The reclaimed wastewater systems shall have no direct or indirect cross connections with potable water systems pursuant to the latest revision of the New Mexico Plumbing and Mechanical Code. Above ground use of reclaimed wastewater shall not result in excessive standing or pooling of wastewater, and shall be applied at the appropriate consumptive water use rate. Irrigation shall not be conducted at times when the receiving area is saturated or frozen. The discharge of reclaimed wastewater shall be confined to the area designated and | | | |

| | |
|------------|---|
| | <p>approved for receiving the wastewater.</p> <p>e) All water supply wells within 200 feet of a wetted irrigation area shall have adequate well head construction and irrigation shall be managed to ensure protection of ground water quality.</p> <p>f) All existing and accessible portions of the reclaimed wastewater system shall be colored purple or clearly labeled as being part of a reclaimed wastewater distribution system. All piping, valves and outlets that are installed during the term of this Discharge Permit shall be color-coded in purple pursuant to the latest revision of the New Mexico Plumbing and Mechanical Code to differentiate piping or fixtures used to convey reclaimed wastewater from piping or fixtures used for potable or other water. All valves, outlets, and sprinkler heads used in reclaimed wastewater systems shall be of a type that can only be operated by authorized personnel.</p> <p>[20.6.2.3109 NMAC]</p> |
| <p>10.</p> | <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) A minimum 100-foot set-back shall be maintained between any dwellings or occupied establishments and the edge of any area receiving reclaimed wastewater.</p> <p>b) Irrigation shall be postponed at times when windy conditions may result in drift of reclaimed wastewater outside the designated area of application.</p> <p>c) Whenever reclaimed wastewater is used in areas with public access it shall be applied at times and in a manner that minimizes public contact.</p> <p>d) The spray irrigation system shall utilize only low trajectory spray nozzles.</p> <p>[20.6.2.3109 NMAC]</p> |
| <p>11.</p> | <p>Within 60 days of the effective date of this Discharge Permit (by [date]), the permittee shall measure the thickness of the sludge blanket in all lagoons. If sludge accumulation exceeds one-third of the maximum liquid depth of a lagoon at any location within the lagoon, the permittee shall remove the sludge to a depth of less than six inches throughout the lagoon in a manner that is protective of the lagoon liner. Removed sludge shall be contained, transported, and disposed of in accordance with all local, state, and federal (40 CFR Part 503) regulations. A report detailing the sludge depth measurement and disposal of excess accumulated solids (if any disposal occurs) shall be submitted to NMED within 180 days of the effective date of this Discharge Permit (by [date]). [20.6.2.3109 NMAC]</p> |
| <p>12.</p> | <p>The lagoon liners shall be maintained in such a manner as to avoid conditions which could affect the structural integrity of the lagoons and/or lagoon liners. Such conditions include, but are not limited to:</p> <ul style="list-style-type: none"> • Erosion damage; • Animal activity/damage; • The presence of vegetation, such as; aquatic plants, weeds, woody shrubs or trees growing within five feet of the lagoon edge or within the lagoon itself; • Evidence of seepage; • Evidence of berm subsidence; and/or • The presence of large pieces or large quantities of debris in the lagoon. <p>The permittee shall visually inspect the lagoons and surrounding berms on a monthly basis to ensure proper maintenance. Vegetation growing around the lagoons shall be routinely controlled by mechanical removal in a manner that is protective of the lagoon liner. Any</p> |

| | |
|-----|---|
| | evidence of damage to the lagoon berm or liner shall be reported to NMED immediately upon discovery. [20.6.2.3107 NMAC] |
| 13. | The permittee shall maintain a minimum of two feet of freeboard between the liquid level in the lagoons and the top elevation of the lagoon liners at all times. [20.6.2.3107 NMAC, 20.6.2.3109 NMAC] |
| 14. | The permittee shall remove solids from the treatment plant as needed, depending on process control testing such as: the 30-minute settleometer test, the Mixed Liquor Suspended Solids concentration or the Mean Cell Residence Time. The solids shall be contained, transported, and disposed of in accordance with all local, state, and federal (40 CFR Part 503) regulations. Records of solids disposal shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3109 NMAC] |
| 15. | The permittee shall utilize operators, certified by the State of New Mexico at the appropriate level, to operate the wastewater collection, treatment and disposal systems. All operations and maintenance of all or any part of the wastewater system shall be performed by, or under the direct supervision of, a certified operator. [20.7.4 NMAC] |

MONITORING, REPORTING, AND OTHER REQUIREMENTS

| # | Terms and Conditions |
|-----|---|
| 16. | The permittee shall conduct the following monitoring, reporting, and other requirements listed below. [20.6.2.3107 NMAC] |
| 17. | METHODOLOGY - Unless otherwise approved in writing by NMED, the permittee shall conduct sampling and analysis in accordance with the most recent edition of the following documents: a) American Public Health Association, Standard Methods for the Examination of Water and Wastewater (18th, 19th or current); b) U.S. Environmental Protection Agency, Methods for Chemical Analysis of Water and Waste; c) U.S. Geological Survey, Techniques for Water Resources Investigations of the U.S. Geological Survey; d) American Society for Testing and Materials, Annual Book of ASTM Standards, Part 31.Water; e) U.S. Geological Survey, et al., National Handbook of Recommended Methods for Water Data Acquisition; or f) Methods of Soil Analysis: Part 1. Physical and Mineralogical Methods and Part 2. Chemical and Microbiological Properties, American Society of Agronomy. [20.6.2.3107.B NMAC] |
| 18. | The permittee shall submit quarterly monitoring reports to NMED for the most recently completed quarterly period by the 1 st of February, May, August and November each year. Quarterly monitoring shall be performed during the following periods: • January 1 st through March 31 st (first quarter) – due by May 1st ; • April 1 st through June 30 th (second quarter) – due by August 1st ; • July 1 st through September 30 th (third quarter) – due by November 1st ; and |

| | | | | | | | | | | | |
|----------|---|----------|-----------|---------|------------|--------|----------------------------|-------|--------------------------------|---------|--------|
| | <ul style="list-style-type: none"> October 1st through December 31st (fourth quarter) – due by February 1st. <p>Monitoring requirements detailed in this Discharge Permit are summarized on the sheet titled <i>Summary of Required Actions, Monitoring and Reporting</i>. [20.6.2.3107 NMAC]</p> | | | | | | | | | | |
| 19. | <p>Within 90 days of the effective date of this Discharge Permit (by DATE), the permittee shall install the following totalizing flow meters:</p> <ol style="list-style-type: none"> One totalizing flow meter installed on the discharge line from the treatment system to the 160-acre land application area to measure the volume of reclaimed wastewater discharged to the WWTP grounds. One totalizing flow meter installed on the discharge line from the holding lagoons at JC Park to the 6.4-acre land application area to measure the volume of reclaimed wastewater discharged to the Chase Complex. One totalizing flow meter installed on the discharge line from the holding lagoons at JC Park to the 54.5-acre land application area to measure the volume of reclaimed wastewater discharged to Eagle Draw. <p>Confirmation of meter installation, type, calibration and locations shall be submitted to NMED within 30 days of completed installations. [20.6.2.3109 NMAC]</p> | | | | | | | | | | |
| 20. | <p>The permittee shall measure the totalized, daily average and peak volume of treated wastewater discharged to the treatment facility each month using a primary measuring device equipped with head sensing, totalizing and chart recording/data logging mechanisms. The totalized, daily average and peak discharge volumes for each month shall be submitted to NMED in the quarterly monitoring reports. The flow meter shall be calibrated against the primary measuring device to within +/- 10% of actual flow and kept operational at all times. [20.6.2.3107 NMAC]</p> | | | | | | | | | | |
| 21. | <p>The permittee shall measure the monthly volume of reclaimed wastewater discharged to the WWTP grounds, JC Park, Eagle Draw, Roberts Park and Chase Complex using five totalizing flow meters. The monthly meter readings and monthly discharge volumes shall be submitted to NMED in the quarterly monitoring reports. The flow meter(s) shall be calibrated to within +/- 10% of actual flow and kept operational at all times. [20.6.2.3107.A(1) NMAC, 20.6.2.3109.C(3) NMAC]</p> | | | | | | | | | | |
| 22. | <p>The permittee shall sample reclaimed wastewater following the chlorine contact chamber or UV disinfection system on a quarterly basis and analyze the samples for TKN, NO₃-N, TDS and Cl. Samples shall be properly prepared, preserved, transported and analyzed in accordance with the methods authorized in this Discharge Permit. Analytical results shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3107 NMAC]</p> | | | | | | | | | | |
| 23. | <p>On an annual basis, the permittee shall sample reclaimed wastewater following the chlorine contact chamber or UV disinfection system by collecting a 24-hour flow weighted composite sample (unless otherwise noted) and analyze the composite sample for the following inorganic chemicals:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">aluminum</td> <td style="width: 50%;">manganese</td> </tr> <tr> <td>arsenic</td> <td>molybdenum</td> </tr> <tr> <td>barium</td> <td>mercury (total unfiltered)</td> </tr> <tr> <td>boron</td> <td>pH (instantaneous grab sample)</td> </tr> <tr> <td>cadmium</td> <td>nickel</td> </tr> </table> | aluminum | manganese | arsenic | molybdenum | barium | mercury (total unfiltered) | boron | pH (instantaneous grab sample) | cadmium | nickel |
| aluminum | manganese | | | | | | | | | | |
| arsenic | molybdenum | | | | | | | | | | |
| barium | mercury (total unfiltered) | | | | | | | | | | |
| boron | pH (instantaneous grab sample) | | | | | | | | | | |
| cadmium | nickel | | | | | | | | | | |

| | | | |
|--|--|--|--|
| | <p>chromium <u>radioactivity</u>: combined radium-226 & radium-228 cobalt selenium copper silver cyanide sulfate fluoride uranium iron zinc lead</p> <p>Samples shall be properly prepared, preserved, transported and analyzed in accordance with the methods authorized in this Discharge Permit. Analytical results shall be submitted to NMED in the monitoring reports due by August 1st each year. [20.6.2.3107 NMAC]</p> | | |
| <p>24.</p> | <p>On an annual basis, the permittee shall sample treated wastewater following the chlorine contact chamber or UV disinfection system by collecting a grab sample and analyze the grab sample for the following organic chemicals:</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> benzene benzo-a-pyrene carbon tetrachloride chloroform 1,1-dichloroethane 1,2-dichloroethane (EDC) 1,1-dichloroethylene (1,1-DCE) ethylbenzene ethylene dibromide (EBD) methylene chloride <u>PAHs</u>: total naphthalene plus monomethylnaphthalenes </td> <td style="vertical-align: top;"> Phenols Polychlorinated biphenyls (PCBs) toluene 1,1,2,2-tetrachloroethane 1,1,2,2-tetrachloroethylene (PCE) 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethylene (TCE) vinyl chloride xylenes (total) </td> </tr> </table> <p>Samples shall be properly prepared, preserved, transported and analyzed in accordance with the methods authorized in this Discharge Permit. Analytical results shall be submitted to NMED in the monitoring reports due by August 1st each year. [20.6.2.3107 NMAC]</p> | benzene benzo-a-pyrene carbon tetrachloride chloroform 1,1-dichloroethane 1,2-dichloroethane (EDC) 1,1-dichloroethylene (1,1-DCE) ethylbenzene ethylene dibromide (EBD) methylene chloride <u>PAHs</u> : total naphthalene plus monomethylnaphthalenes | Phenols Polychlorinated biphenyls (PCBs) toluene 1,1,2,2-tetrachloroethane 1,1,2,2-tetrachloroethylene (PCE) 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethylene (TCE) vinyl chloride xylenes (total) |
| benzene benzo-a-pyrene carbon tetrachloride chloroform 1,1-dichloroethane 1,2-dichloroethane (EDC) 1,1-dichloroethylene (1,1-DCE) ethylbenzene ethylene dibromide (EBD) methylene chloride <u>PAHs</u> : total naphthalene plus monomethylnaphthalenes | Phenols Polychlorinated biphenyls (PCBs) toluene 1,1,2,2-tetrachloroethane 1,1,2,2-tetrachloroethylene (PCE) 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethylene (TCE) vinyl chloride xylenes (total) | | |
| <p>25.</p> | <p>The permittee shall perform the following analyses on reclaimed wastewater samples collected following the chlorine contact chamber or UV disinfection system using the sampling method and frequency indicated:</p> <ul style="list-style-type: none"> • Fecal coliform 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; • The permittee shall record UV transmissivity values whenever fecal coliform samples are collected. <p>Samples shall be properly prepared, preserved, transported and analyzed in accordance with the methods authorized in this Discharge Permit. Analytical results and a copy of the log of UV transmissivity values or TRC concentrations shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3107 NMAC]</p> | | |

| | |
|-----|--|
| 26. | The permittee shall keep a log of all additional fertilizer applied to each field in the land application area. The log shall contain the date of fertilizer application, the type and nutrient concentration of the fertilizer, and the amount of fertilizer applied to each field. A summary of the log entries shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3107 NMAC] |
|-----|--|

CONTINGENCY PLAN

| # | Terms and Conditions |
|-----|--|
| 27. | In the event that ground water standards are violated during the term of this Discharge Permit, upon closure of the facility or during the implementation of post-closure requirements, the permittee shall submit to NMED a corrective action plan that proposes measures to mitigate damage from the discharge including, at a minimum, source control measures and an implementation schedule. The permittee may be required to abate water pollution pursuant to Sections 20.6.2.4000 through 20.6.2.4115 NMAC, if the corrective action plan will not result in compliance with the standards and requirements set forth in Section 20.6.2.4103 NMAC within 180 days of confirmation of ground water contamination. [20.6.2.1203 NMAC, 20.6.2.4105.A(8) NMAC] |
| 28. | In the event of a spill or release that is not authorized under this Discharge Permit, the permittee shall initiate the notifications and corrective actions as required in Section 20.6.2.1203 NMAC. The permittee shall take immediate corrective action to contain and remove or mitigate the damage caused by the discharge. Within 24 hours after discovery of the discharge, the permittee shall verbally notify NMED and provide the information required by Paragraph (1) of Subsection A of 20.6.2.1203 NMAC. Within 7 days of discovering the discharge, the permittee shall submit a written report to NMED verifying the oral notification and providing any additional information or changes. The permittee shall submit a corrective action report within 15 days after discovery of the discharge. [20.6.2.1203 NMAC] |
| 29. | <p>In the event that analytical results of a quarterly treated wastewater sample exceed the total nitrogen limitation set in this Discharge Permit, the permittee shall analyze another sample within 15 days to confirm the initial results. Upon confirmation that the limitation is being exceeded, the permittee shall enact the following contingency plan:</p> <ul style="list-style-type: none"> a) NMED shall be notified immediately that the contingency plan is being enacted. b) Wastewater sampling and analysis shall be done on a monthly basis. c) The permittee shall examine the operation and maintenance log, required under the Record Keeping section of this permit, for improper operational procedures. The permittee shall also conduct a physical inspection of the treatment system to detect abnormalities. Any abnormalities discovered shall be corrected. d) If analytical results from wastewater sampling continue to exceed the limitation, the permittee shall submit a corrective action plan for NMED approval to modify operational procedures and/or upgrade the treatment process to achieve the effluent limit. The plan shall be submitted within 90 days of the original confirmation of exceedance of the effluent limitation. The corrective action plan shall be implemented immediately upon NMED approval. <p>When analytical results from three consecutive months of wastewater sampling do not</p> |

| | |
|-----|--|
| | <p>exceed the limitation, the permittee shall return to quarterly monitoring. [20.6.2.3107.A(10) NMAC]</p> |
| 30. | <p>In the event that analytical results of a reclaimed domestic wastewater sample exceed any of the maximum limitations for BOD₅, TSS, or fecal coliform bacteria set by this Discharge Permit, the permittee shall re-sample within 24 hours of becoming aware of the exceedance to confirm the initial results. If the exceedance of any of the maximum limitations is confirmed, or if any of the 30-day average limitations is exceeded, the permittee shall enact the following contingency plan:</p> <ul style="list-style-type: none"> a) NMED shall be notified immediately that the contingency plan is being enacted. b) The permittee shall immediately cease discharging reclaimed domestic wastewater to the land application area. c) The permittee shall examine the operation and maintenance log, required under the Record Keeping section of this Discharge Permit, for improper operational procedures. The permittee shall also conduct a physical inspection of the treatment system to detect abnormalities. Any abnormalities discovered shall be corrected. <p>When the analytical results from samples of reclaimed domestic wastewater, sampled as required by this Discharge Permit, no longer exceed any of the maximum limitations, the permittee may resume discharging reclaimed wastewater to the land application area.</p> <p>If a facility is required to enact the contingency plan more than two times in a calendar year, the permittee shall submit a corrective action plan for NMED approval to modify operational procedures and/or upgrade the treatment process to achieve consistent compliance with the maximum and 30-day average limitations. The plan shall be submitted within 60 days of the second occurrence and shall be implemented immediately upon NMED approval. Additional sampling of stored reclaimed wastewater prior to discharge to the land application area may be required as part of the corrective action plan. [20.6.2.3107.A(10) NMAC]</p> |
| 31. | <p>In the event that a minimum of two feet of freeboard cannot be maintained in the lagoons at all times, the permittee shall submit a corrective action plan for NMED approval within 30 days of the date when the two feet of freeboard limit was initially exceeded. [20.6.2.3107 NMAC, 20.6.2.3109 NMAC]</p> |
| 32. | <p>In the event that inspection findings reveal significant damage likely to affect the ability of the lined lagoons to contain contaminants, the permittee shall submit a corrective action plan for the repair or replacement of the lagoon liners to NMED for approval within 30 days of discovery by the permittee or following notification from NMED that significant liner damage is evident. [20.6.2.3107 NMAC, 20.6.2.3109 NMAC]</p> |
| 33. | <p>In the event NMED or the permittee identifies any other failures of the Discharge Permit or system not specifically noted herein, NMED may require the permittee to develop for NMED approval contingency plans and schedules to cope with the failures. [20.6.2.3107.A(10) NMAC]</p> |

CLOSURE PLAN

| # | Terms and Conditions |
|-----|--|
| 34. | <p>Within 90 days of the effective date of this Discharge Permit (by date), the permittee shall properly plug and abandon the two existing monitoring wells:</p> <ul style="list-style-type: none"> • MW-1, intended to be located hydrologically downgradient of the sludge drying beds and approximately 125 feet east of the sludge drying beds; and • MW-2, intended to be located hydrologically downgradient of the WWTP Storage Lagoon and approximately 238 feet east of the WWTP Storage Lagoon. <p>The wells shall be plugged and abandoned in accordance with the attachment titled <i>Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions</i>, Revision 1.0, July 2008, and any applicable local, state, and federal regulations. Documentation describing the plug and abandonment procedures, including photo documentation, shall be submitted to NMED within 30 days of completed well abandonment. [20.6.2.3107 NMAC]</p> |
| 35. | <p>Upon closure of the facility, the permittee shall perform the following closure measures:</p> <ol style="list-style-type: none"> a) Remove or plug all lines leading to the treatment system and land application areas so that a discharge can no longer occur. b) Drain and/or evaporate all liquids from all treatment units and dispose of all sludge in accordance with all local, state, and federal (40 CFR Part 503) regulations. c) Remove or demolish all tanks and re-grade area with clean fill to blend with surface topography and prevent ponding. d) Perforate or remove the holding lagoon liner(s) and re-grade the lagoons with clean fill to blend with surface topography and prevent ponding. e) Following notification from NMED that post-closure monitoring may cease, the permittee shall plug and abandon the monitoring well(s) in accordance with the attachment titled <i>Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions</i>, Revision 1.0, July 2008. <p>When all post-closure requirements have been met, the permittee may request to terminate the Discharge Permit. [20.6.2.3107.A(11) NMAC]</p> |

GENERAL TERMS AND CONDITIONS

| # | Terms and Conditions |
|-----|--|
| 36. | <p>RECORD KEEPING - The permittee shall maintain at its facility a written record of all data and information related to field measurements, sampling, and analysis conducted pursuant to this Discharge Permit. The following information shall be recorded and shall be made available to NMED upon request:</p> <ol style="list-style-type: none"> a) The dates, exact place and times of sampling or field measurements; b) The name and job title of the individuals who performed each sample collection or field measurement; c) The date of the analysis of each sample; d) The name and address of the laboratory and the name and job title of the person that performed the analysis of each sample; |

| | |
|-----|--|
| | <p>e) The analytical technique or method used to analyze each sample or take each field measurement;</p> <p>f) The results of each analysis or field measurement, including raw data;</p> <p>g) The results of any split sampling, spikes or repeat sampling; and</p> <p>h) A description of the quality assurance and quality control procedures used.</p> <p>[20.6.2.3107.A NMAC]</p> |
| 37. | <p>RECORD KEEPING - The permittee shall maintain a written record of any spills, seeps, and/or leaks of effluent, and of leachate and/or process fluids not authorized by this Discharge Permit. [20.6.2.3107.A NMAC]</p> |
| 38. | <p>RECORD KEEPING - The permittee shall maintain a written record of the operation, maintenance, and repair of all facilities/equipment used to treat, store or dispose of wastewater; to measure flow rates, to monitor water quality, or to collect other data required by this Discharge Permit. This record shall include repair, replacement or calibration of any monitoring equipment and repair or replacement of any equipment used in the permittee's waste or wastewater treatment and disposal system.</p> <p>[20.6.2.3107.A NMAC]</p> |
| 39. | <p>RECORD KEEPING - The permittee shall maintain a written record of the amount of wastewater, effluent, leachate or other wastes discharged pursuant to this Discharge Permit.</p> <p>[20.6.2.3107.A NMAC]</p> |
| 40. | <p>RECORD KEEPING - The permittee shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this Discharge Permit, and records of all data used to complete the application for this Discharge Permit for a period of at least five years from the date of the sample collection, measurement, report or application. This period may be extended by request of the Secretary at any time. [20.6.2.3107.A NMAC]</p> |
| 41. | <p>INSPECTION and ENTRY - The permittee shall allow the Secretary or an authorized representative, upon the presentation of credentials, to:</p> <p>a) Enter at regular business hours or at other reasonable times upon the permittee's premises or other location where records must be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation.</p> <p>b) Inspect and copy, during regular business hours or at other reasonable times, any records required to be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation.</p> <p>c) Inspect, at regular business hours or at other reasonable times, any facility, equipment (including monitoring and control equipment or treatment works), practices or operations regulated or required under this Discharge Permit, or under any federal or WQCC regulation.</p> <p>d) Sample or monitor, at reasonable times for the purpose of assuring compliance with this Discharge Permit or as otherwise authorized by the WQA, any effluent, water contaminant, or receiving water at any location before or after discharge.</p> <p>[20.6.2.3107.D NMAC, 74-6-9(B) & (E) WQA]</p> |
| 42. | <p>INSPECTION and ENTRY - Nothing in this Discharge Permit shall be construed as limiting in any way the inspection and entry authority of NMED under the WQA, the WQCC Regulations, or any other applicable law or regulation. [20.6.2.3107 NMAC, 74-6-9(B) & (E) WQA]</p> |

| | |
|-----|---|
| 43. | <p>DUTY to PROVIDE INFORMATION - The permittee shall furnish to NMED, within a reasonable time, any documents or other information which it may request to determine whether cause exists for modifying, terminating and/or renewing this Discharge Permit or to determine compliance with this Discharge Permit. The permittee shall also furnish to NMED, upon request, copies of documents required to be kept by this Discharge Permit. [20.6.2.3107.D NMAC, 74-6-9(B) & (E) WQA]</p> |
| 44. | <p>SPILLS, LEAKS, and OTHER UNAUTHORIZED DISCHARGES - This Discharge Permit authorizes only those discharges specified herein. Any unauthorized discharges violate Section 20.6.2.3104 NMAC and must be reported to NMED and remediated as required by Section 20.6.2.1203 NMAC. [20.6.2.1203 NMAC]</p> |
| 45. | <p>MODIFICATIONS and/or AMENDMENTS - The permittee shall notify NMED of any changes to the permittee's wastewater treatment and disposal system, including any changes in the wastewater flow rate or the volume of wastewater storage, or of any other changes to operations or processes that would result in any significant change in the discharge of water contaminants. The permittee shall obtain NMED's approval, as a modification to this Discharge Permit pursuant to Subsections E, F, or G of 20.6.2.3109 NMAC, prior to any increase in the quantity discharged, or any increase in the concentration of water contaminants discharged, above those levels approved in this Discharge Permit. [20.6.2.3107.C NMAC]</p> |
| 46. | <p>PLANS and SPECIFICATIONS - The permittee shall file plans and specifications with NMED for the construction of a wastewater system and for proposed changes that will change substantially the quantity or quality of the discharge from the system. The permittee shall file plans and specifications prior to the commencement of construction. Changes to the wastewater system having a minor effect on the character of the discharge shall be reported as of January 1 and June 30 of each year to NMED. [20.6.2.1202 NMAC]</p> |
| 47. | <p>CIVIL PENALTIES - Any violation of the requirements and conditions of this Discharge Permit, including any failure to allow NMED staff to enter and inspect records or facilities, or any refusal or failure to provide NMED with records or information, may subject the permittee to a civil enforcement action. Pursuant to WQA 74-6-10(A) and (B), such action may include a compliance order requiring compliance immediately or in a specified time, assessing a civil penalty, modifying or terminating the Discharge Permit, or any combination of the foregoing; or an action in district court seeking injunctive relief, civil penalties, or both. Pursuant to WQA 74-6-10(C) and 74-6-10.1, civil penalties of up to \$15,000 per day of noncompliance may be assessed for each violation of the WQA 74-6-5, the WQCC Regulations, or this Discharge Permit, and civil penalties of up to \$10,000 per day of noncompliance may be assessed for each violation of any other provision of the WQA, or any regulation, standard, or order adopted pursuant to such other provision. In any action to enforce this Discharge Permit, the permittee waives any objection to the admissibility as evidence of any data generated pursuant to this Discharge Permit. [74-6-10 WQA, 74-6-10.1 WQA]</p> |
| 48. | <p>CRIMINAL PENALTIES – Any person who knowingly violates or knowingly causes or allows another person to:</p> <ol style="list-style-type: none"> 1) make any false material statement, representation, certification or omission of material fact in an application, record, report, plan or other document filed, submitted or |

| | |
|-----|--|
| | <p>required to be maintained under the WQA;</p> <p>2) falsify, tamper with or render inaccurate any monitoring device, method or record required to be maintained under the WQA; or</p> <p>3) fail to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation, is subject to felony charges and shall be sentenced in accordance with the provisions of Section 31-18-15 NMSA 1978.</p> <p>[74-6-10.2(A-F) WQA]</p> |
| 49. | <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 all applicable federal, state, and local laws, regulations, permits or orders. [20.6.2 NMAC]</p> |
| 50. | <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 (30) days of the receipt of this Discharge Permit. Unless a timely petition for review is made, the decision of NMED shall be final and not subject to judicial review. [74-6-5(O) WQA]</p> |
| 51. | <p>TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this permitted facility or any portion thereof, the permittee shall notify the proposed transferee in writing of the existence of this Discharge Permit and include a copy of this Discharge Permit with the notice. The permittee shall deliver or send by certified mail to NMED a copy of the notification and proof that such notification has been received by the proposed transferee. [20.6.2.3111 NMAC]</p> |
| 52. | <p>TERM - Pursuant to WQA 74-6-5(I) and Subsection H of 20.6.2.3109 NMAC, the term of this Discharge Permit is five years from its effective date. To renew this Discharge Permit, the permittee must submit an application for renewal at least 180 days before the termination date. [20.6.2.3109.H NMAC, 74-6-5(I) WQA]</p> |
| 53. | <p>Payment of permit fees is due at the time of Discharge Permit approval. Permit fees shall be paid in a single payment or shall be paid in equal installments on a yearly basis over the term of the Discharge Permit. Single payments shall be remitted to NMED no later than 30 days after the Discharge Permit effective date. Initial installment payments shall be remitted to NMED no later than 30 days after the Discharge Permit effective date; subsequent installment payments shall be remitted to NMED no later than the anniversary of the Discharge Permit effective date. An approved Discharge Permit shall be suspended or terminated if the facility fails to remit an installment payment by its due date. [20.6.2.3114.F NMAC, 74-6-5(K) WQA]</p> |

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

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