



MICHELLE LUJAN GRISHAM
GOVERNOR

JAMES C. KENNEY
CABINET SECRETARY

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

May 15, 2025

Gary M. Schubert, President
S & H Enterprises, Inc.
P.O. Box 6065
Hobbs, New Mexico 88241

RE: Draft Discharge Permit Renewal, DP-875, S & H Enterprises, Inc.

Dear Gary Schubert:

The New Mexico Environment Department (NMED) hereby provides notice to you of the proposed approval of Ground Water Discharge Permit Renewal, DP-875, (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 Brad.Jones@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) 490-5283.

Sincerely,

, for

Brad Jones, Water Resource Professional

Encl: Draft Discharge Permit Renewal, DP-875
cc: Bill Griffin, City of Hobbs WWRF Superintendent (bgriffin@hobbsnm.org)



NEW MEXICO
ENVIRONMENT DEPARTMENT
Ground Water Quality Bureau
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Santa Fe, NM 87502-5469
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Draft: May 13, 2025

GROUND WATER QUALITY BUREAU
DISCHARGE PERMIT
Issued under 20.6.2 NMAC

Facility Name: S & H Enterprises, Inc.
Discharge Permit Number: DP-875
Facility Location: 2826 E. Nadine Road
Hobbs, New Mexico

County: Lea

Permittee: S & H Enterprises, Inc.
Mailing Address: P.O. Box 6056
Hobbs, New Mexico 88241

Facility Contact: Gary M. Schubert
Telephone Number/Email: 575-393-6662 / garymschubert@gmail.com

Permitting Action: Renewal
Permit Issuance Date: DATE
Permit Expiration Date: DATE 5 years

NMED Permit Contact: Brad Jones
Telephone Number/Email: 505-490-5283 / brad.jones@env.nm.gov or
505-827-2900 / pps.general@env.nm.gov

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

Date

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

I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this groundwater discharge permit Renewal (Discharge Permit or DP-875) to the S & H Enterprises, Inc. (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 S & H Enterprises, Inc. (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 receives Class 2 reclaimed domestic wastewater at a volume of up to 3.6 million gallons per day (MGD) transferred via pipeline from the City of Hobbs Wastewater Reclamation Facility (WWRF), which is regulated under a separate Discharge Permit, DP-37. Reclaimed domestic wastewater discharges via spray irrigation to approximately 1,927 acres of cropland under cultivation (re-use areas).

Data collected from on-site monitoring wells document groundwater contamination. The on-site monitoring wells have exceedances of groundwater quality standards for total nitrogen, Total Dissolved Solids (TDS) and chlorides (Cl) according to the criteria of Sections 20.6.2.3101 and 20.6.2.3103 NMAC. The Permittee is subject to the NMED Corrective Action Plan (CAP) approval, issued on March 18, 2025, to address the nitrates detected in monitoring well MW-7, and to submit a separate CAP that addresses the exceedances of chlorides and TDS in MW-5 and MW-7 detected during the 2024 quarterly sampling events. This Discharge Permit contains requirements, actions and/or contingencies intended to address the source(s) of documented groundwater contamination.

Discharge Permit Location Information:

Physical Address	2826 E. Nadine Road, Hobbs, New Mexico 88240
Nearest Town/City	Hobbs
Section, Township, Range	Sections 24, 25, and 26, Township 19 South, Range 38 East and Sections 18, 19, and 30, Township 19 South, Range 39 East
County	Lea

Depth to Groundwater	Ranges from 70 to 87 feet
Pre-Discharge TDS	380 milligrams per liter

Discharge Permit Issuance History:

Original Permit Issuance	October 16, 1992
Permit Modification	October 22, 1993
Permit Modification	June 4, 1996
Permit Renewal	March 27, 1998
Permit Renewal	March 16, 2004
Permit Renewal and Modification	October 9, 2012
Permit Renewal	November 20, 2018

The application (i.e., discharge plan) associated with this Discharge Permit consists of the materials submitted by the Permittee dated September 16, 2023, 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

Abbreviation	Explanation	Abbreviation	Explanation
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 receive up to 3.6 MGD of Class 2 reclaimed domestic wastewater transferred via a pipeline from the City of Hobbs WWRF regulated under a separate Discharge Permit, DP-37. This Discharge Permit authorizes the Permittee to discharge reclaimed domestic wastewater via spray irrigation to approximately 1,927 acres across 16 pivots of cropland under cultivation (i.e., reuse areas).

[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.	Within 30 days following the issuance date of this Discharge Permit (by DATE), the Permittee shall post signs in English and Spanish on each individual pivot spray irrigation unit at all reuse areas. The Permittee shall post signs at the entrance to reuse areas and at other locations where public exposure to reclaimed domestic wastewater may occur. The signs shall state: NOTICE: THIS AREA IS IRRIGATED WITH RECLAIMED WASTEWATER - DO NOT DRINK. AVISO: ESTA ÁREA ESTÁ REGADA CON AGUAS NEGRAS RECOBRADAS - NO TOMAR. The Permittee may submit alternate wording and/or graphics to NMED for approval. Documentation of sign installation shall consist of a narrative statement describing the number and location of the signs and date-stamped photographs. The Permittee shall submit the documentation to NMED in the next required periodic monitoring report. [Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]

Operating Conditions

#	Terms and Conditions																		
4.	<p>The Permittee shall ensure that Class 2 reclaimed domestic wastewater transferred from the Hobbs WWRF does not exceed the following discharge limits.</p> <table border="1" data-bbox="415 396 1305 856"> <thead> <tr> <th data-bbox="415 396 711 436"><u>Test</u></th> <th data-bbox="711 396 1008 436"><u>30-day Average</u></th> <th data-bbox="1008 396 1305 436"><u>Maximum</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="415 436 711 489">Total Nitrogen</td> <td data-bbox="711 436 1008 489">N/A</td> <td data-bbox="1008 436 1305 489">10 mg/L</td> </tr> <tr> <td data-bbox="415 489 711 684">Fecal coliform OR E. coli bacteria</td> <td data-bbox="711 489 1008 684">200 CFU or MPN/100 mL OR 126 CFU or MPN/100 mL</td> <td data-bbox="1008 489 1305 684">400 CFU or MPN/100 mL OR 252 CFU or MPN/100 mL</td> </tr> <tr> <td data-bbox="415 684 711 737">BOD₅</td> <td data-bbox="711 684 1008 737">30 mg/L</td> <td data-bbox="1008 684 1305 737">45 mg/L</td> </tr> <tr> <td data-bbox="415 737 711 789">TSS</td> <td data-bbox="711 737 1008 789">30 mg/L</td> <td data-bbox="1008 737 1305 789">45 mg/L</td> </tr> <tr> <td data-bbox="415 789 711 856">TRC OR UV Transmissivity</td> <td data-bbox="711 789 1008 856">Monitor Only</td> <td data-bbox="1008 789 1305 856">Monitor Only</td> </tr> </tbody> </table> <p data-bbox="293 900 1174 934">[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]</p>	<u>Test</u>	<u>30-day Average</u>	<u>Maximum</u>	Total Nitrogen	N/A	10 mg/L	Fecal coliform OR E. coli bacteria	200 CFU or MPN/100 mL OR 126 CFU or MPN/100 mL	400 CFU or MPN/100 mL OR 252 CFU or MPN/100 mL	BOD ₅	30 mg/L	45 mg/L	TSS	30 mg/L	45 mg/L	TRC OR UV Transmissivity	Monitor Only	Monitor Only
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5.	<p>The Permittee shall apply reclaimed domestic wastewater evenly throughout the entire reuse area such that the amount of total nitrogen applied does not exceed 200 pounds per acre in any rolling 12-month period. The Permittee shall not adjust nitrogen content to account for volatilization or mineralization processes. The Permittee shall prevent excessive ponding from occurring due to the discharge.</p> <p data-bbox="293 1192 764 1226">[Subsection C of 20.6.2.3109 NMAC]</p>																		
6.	<p>The Permittee shall ensure adherence to the following general requirements for above-ground use of reclaimed domestic wastewater.</p> <p data-bbox="293 1331 1437 1633">a) The Permittee shall install and maintain signs in English and Spanish at all reuse areas such that they are visible and legible for the term of this Discharge Permit. The Permittee shall post signs at the entrance to reuse areas and at other locations where public exposure to reclaimed domestic wastewater may occur. The signs shall state: NOTICE: THIS AREA IS IRRIGATED WITH RECLAIMED WASTEWATER - DO NOT DRINK. AVISO: ESTA ÁREA ESTÁ REGADA CON AGUAS NEGRAS RECOBRADAS - NO TOMAR. The Permittee may submit alternate wording and/or graphics to NMED for approval.</p> <p data-bbox="293 1644 1437 1791">b) Reclaimed domestic wastewater systems shall have no direct or indirect cross connections with public water systems or irrigation wells pursuant to the latest revision of the New Mexico Plumbing Code (14.8.2 NMAC) and New Mexico Mechanical Code (14.9.2 NMAC).</p> <p data-bbox="293 1801 1437 1875">c) Above-ground use of reclaimed domestic wastewater shall not result in excessive ponding of wastewater and shall not exceed the water consumptive needs of the</p>																		

#	Terms and Conditions
	<p>crop. The Permittee shall not discharge reclaimed domestic wastewater at times when the reuse area is saturated or frozen.</p> <ul style="list-style-type: none">d) The Permittee shall confine discharge of reclaimed domestic wastewater to the reuse area.e) The Permittee shall not discharge reclaimed domestic wastewater to crops used for human consumption.f) Water supply wells within 200 feet of a reuse area shall have adequate wellhead construction pursuant to 19.27.4 NMAC.g) Existing and accessible portions of the reclaimed domestic wastewater distribution system (with the exception of application equipment such as sprinklers or pivots) shall be colored purple or clearly labeled as being part of a reclaimed domestic wastewater distribution system. Piping, valves, outlets, and other plumbing fixtures shall be purple pursuant to the latest revision of the New Mexico Plumbing Code (14.8.2 NMAC) and New Mexico Mechanical Code (14.9.2 NMAC) to differentiate piping or fixtures used to convey reclaimed wastewater from those intended for potable or other uses.h) Valves, outlets, and sprinkler heads used in reclaimed wastewater systems shall be accessible only to authorized personnel. <p>The Permittee shall demonstrate adherence to these requirements by submitting documentation consisting of narrative statements and date-stamped photographs as appropriate. The Permittee shall submit the documentation to NMED once during the term of this Discharge Permit in the next required periodic monitoring report after the issuance of the Discharge Permit.</p> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1-78, § 74-6-5.D]</p>
7.	<p>The Permittee shall meet the following setbacks, access restrictions and equipment requirements for spray irrigation using Class 2 reclaimed domestic wastewater.</p> <ul style="list-style-type: none">a) Maintain a minimum 100-foot setback between any dwellings or occupied establishments and the edge of the reuse area.b) Postpone irrigation using reclaimed domestic wastewater at times when windy conditions may result in drift of reclaimed domestic wastewater outside the reuse area.c) Restrict access to the reuse area using perimeter fencing with four-strand barbed wire and a locking gate, or other access controls approved by NMED.d) Prohibit public access during times when reclaimed domestic wastewater is being applied to the reuse area.e) Limit the spray irrigation system to low trajectory spray nozzles. <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1-78, § 74-6-5.D]</p>

#	Terms and Conditions
8.	<p>The Permittee shall institute a backflow prevention method to protect wells and public water supply systems from contamination by reclaimed domestic wastewater prior to discharging to the reuse area. Backflow prevention shall be achieved by a total disconnect (physical air gap separation between the discharge pipe and the liquid surface at least twice the diameter of the discharge pipe), or by a reduced pressure principal backflow prevention assembly (RP) installed on the line between the fresh water supply wells or public water supply and the reclaimed domestic wastewater delivery system. The Permittee shall maintain backflow prevention at all times.</p> <p>The Permittee shall have RP devices inspected and tested by a certified backflow prevention assembly tester at the time of installation, repair or relocation and at least on an annual basis thereafter. The backflow prevention assembly tester shall have successfully completed a 40-hour backflow prevention course based on the University of Southern California’s Backflow Prevention Standards and Test Procedures, and obtained certification demonstrating completion. The Permittee shall have all malfunctioning RP devices repaired or replaced within 30 days of discovery. The Permittee shall cease using supply lines associated with the RP device until repair or replacement is complete.</p> <p>The Permittee shall maintain copies of the inspection and maintenance records and test results for each RP device associated with the backflow prevention program at a location available for inspection by NMED.</p> <p>[Subsection C of 20.6.2.3109 NMAC]</p>

B. MONITORING AND REPORTING

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

Due Dates for Monitoring Reports

#	Terms and Conditions
11.	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: <ul style="list-style-type: none"> • January 1st through June 30th – due by August 1st; and • July 1st through December 31st – due by February 1st. <p>[Subsection A of 20.6.2.3107 NMAC]</p>

Monitoring Actions with Implementation Deadlines

#	Terms and Conditions
12.	Within 90 days following the issuance date of this Discharge Permit (by DATE), the Permittee shall confirm, install, or repair the following flow meters. <ol style="list-style-type: none"> a) One hours recorder on each individual irrigation pivot to estimate the volume of reclaimed domestic wastewater discharged to the reuse area. <p>The Permittee shall submit confirmation of meter repair, installation, type, calibration, and locations within 30 days of completed installations.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>

Groundwater Monitoring Conditions

#	Terms and Conditions
13.	The Permittee shall perform semi-annual groundwater sampling in the following groundwater monitoring wells and analyze the samples for TKN, NO ₃ -N, TDS, and Cl. <ol style="list-style-type: none"> a) MW-4R, located hydrologically downgradient of Pivot #14 (32.63738, -103.08966). b) MW-5, located hydrologically downgradient of Pivot #4 (32.65277, -103.09302). c) MW-7, located hydrologically downgradient of Pivot #11 (32.646117, -103.076569). d) MW-8, located hydrologically upgradient of Pivot #8 (32.645275, -103.109553). <p>The Permittee shall perform groundwater sample collection, preservation, transport, and analysis according to the following procedures.</p> <ol style="list-style-type: none"> e) Measure the depth-to-most-shallow groundwater from the top of the well casing to the nearest one-hundredth of a foot. f) Purge three well volumes of water from the well prior to sample collection. g) Any monitoring wells with screen intervals greater than 15 feet the Permittee shall

#	Terms and Conditions
	<p>utilize low-flow sampling methodologies as approved by NMED.</p> <p>h) Obtain samples from the well for analysis.</p> <p>i) Properly prepare, preserve, and transport samples.</p> <p>j) Analyze samples in accordance with the methods authorized in this Discharge Permit.</p> <p>The Permittee shall submit the depth-to-most-shallow groundwater measurements and the laboratory analytical data results including the laboratory QA/QC summary report and Chain of Custody for each well, and a Facility layout map showing the location and number of each well to NMED in the monitoring reports due by August 1st and February 1st each year.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
14.	<p>The Permittee shall develop a groundwater elevation contour map, i.e., potentiometric surface map, on a semi-annual basis using the top of casing elevation data from the monitoring well survey and the most recent depth-to-most-shallow groundwater measurements, referenced to mean sea level, obtained during the groundwater sampling required by this Discharge Permit.</p> <p>The groundwater elevation contour map shall depict the groundwater flow direction based on the groundwater elevation contours. The Permittee shall estimate groundwater elevations between monitoring well locations using common interpolation methods. The Permittee shall use a contour interval appropriate to the data but shall not be greater than two feet. Groundwater elevation contour maps shall use arrows to depict the groundwater flow direction based on the orientation of the groundwater elevation contours and shall locate and identify each monitoring well and contaminant source.</p> <p>The Permittee shall submit to NMED a groundwater elevation contour map in the monitoring reports due by August 1st and February 1st each year.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
15.	<p>NMED shall have the option to perform downhole inspections of all groundwater monitoring wells identified in this Discharge Permit. NMED shall establish the inspection date and notify the Permittee. The Permittee shall remove any existing dedicated pumps at least 48 hours prior to NMED inspection to allow adequate settling time of sediment agitated from pump removal.</p> <p>Should the Permittee decide to install a pump in a monitoring well without a dedicated pump, the Permittee shall notify NMED at least 90 days prior to pump installation so that NMED can schedule a downhole well inspection(s) prior to pump placement.</p>

#	Terms and Conditions
	[Subsections A and D of 20.6.2.3107 NMAC]

Facility Monitoring Conditions

#	Terms and Conditions
16.	<p>The Permittee shall on a monthly basis report the volume of reclaimed domestic wastewater received from the City of Hobbs Water Reclamation Facility (DP-37).</p> <p>The Permittee shall on a monthly basis estimate the volume of reclaimed domestic wastewater mixed with irrigation well water discharged to the reuse area</p> <p>To determine the discharge volume of mixed reclaimed domestic wastewater and irrigation well water, the Permittee shall obtain the pumping rate of the pivot irrigation pumps located on each pivot spray irrigation unit from the manufacturer specifications or by documented field assessment. Further, the Permittee shall log the total run time for each pump(s) on an hours-recorder and record the pump run hours on a monthly basis (pump operating time) for each individual pivot. Finally, the Permittee shall multiply the monthly pump run hours by the associated pumping rate to estimate the monthly combined effluent and irrigation well water volume by the formula below.</p> $(\text{pumping rate}) \times (\text{monthly pump operating time}) = \text{estimated monthly combined effluent and irrigation well water volume}$ <p>The Permittee shall use the estimated monthly combined effluent and irrigation well water volume to calculate the average daily combined effluent and irrigation well water volume by the formula below.</p> $\text{estimated monthly effluent volume} \div \text{number of days in the month} = \text{average daily effluent volume}$ <p>The Permittee shall submit to NMED the record of the calendar monthly operating time for the pump(s), the pumping rate and the estimated monthly and average daily combined effluent and irrigation well water volume in the monitoring reports due by August 1st and February 1st each year. The Permittee shall keep the hours-recorder functional at all times. If the recorder is not functioning properly, the Permittee shall note that fact in the record submitted to NMED.</p> <p>*Should more than one pump/hours-recorder assembly exist at the Facility, the Permittee shall calculate the estimated monthly volume for the Facility by adding the estimated monthly volume determined for each pump/hours recorder assembly. This summation should be completed prior to calculating the average daily volume for the Facility.</p>

#	Terms and Conditions
	[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]
17.	<p>The Permittee shall keep a Fertilizer Log (copy enclosed) of all additional nitrogenous fertilizer applied to <i>each</i> pivot within the reuse area. The Log shall contain the date of fertilizer application, the type (organic or inorganic) and form (granular or liquid), nitrogen concentration (in percent), the amount of fertilizer applied (in pounds per acre), and the amount of nitrogen applied (in pounds per acre) for each location. The Permittee shall submit the log, or a statement that application of fertilizer did not occur, to NMED in the subsequent semi-annual monitoring report.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>

C. CONTINGENCY PLAN

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

#	Terms and Conditions
	<p>insufficient water to effectively monitor groundwater quality, or is otherwise not completed in a manner that is protective of groundwater quality, the Permittee shall install a replacement well(s) within 120 days following notification from NMED.</p> <p>The Permittee shall survey the replacement monitoring well(s) within 30 days following well completion.</p> <p>The Permittee shall install replacement well(s) at locations approved by NMED prior to installation and shall complete replacement well(s) in accordance with the attached Monitoring Well Guidance. The Permittee shall submit well construction and lithologic logs, survey data and a groundwater elevation contour map to NMED within 60 days following well completion.</p> <p>The Permittee shall properly plug and abandon monitoring well(s) requiring replacement upon completion of the replacement monitoring well(s). The Permittee shall complete the well plugging and abandonment, and shall document the abandonment procedures, in accordance with the attached Monitoring Well Guidance and all applicable local, state, and federal regulations. The Permittee shall submit a copy of the well abandonment documentation to NMED within 60 days following the replacement well(s) completion.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
20.	<p>In the event that groundwater flow information obtained pursuant to this Discharge Permit indicates that a monitoring well is not appropriately located, e.g., hydrologically downgradient of the discharge location it is intended to monitor, the Permittee shall install a replacement well within 120 days following notification from NMED. The Permittee shall survey the replacement monitoring well within 30 days following well completion.</p> <p>The Permittee shall install the replacement well at the location approved by NMED prior to installation and shall complete the replacement well in accordance with the attached Monitoring Well Guidance. The Permittee shall submit construction and lithologic logs, survey data and a groundwater elevation contour map within 60 days following well completion.</p> <p>The Permittee shall properly plug and abandon a monitoring well requiring replacement upon completion of the replacement monitoring well. The Permittee shall complete the well plugging and abandonment, and shall document the abandonment procedures, in accordance with the attached Monitoring Well Guidance and all applicable local, state, and federal regulations. The Permittee shall submit a copy of the well abandonment documentation to NMED within 60 days following the replacement well completion.</p>

#	Terms and Conditions
	[Subsection A of 20.6.2.3107 NMAC]
21.	<p>In the event that the Facility exceeds the authorized discharge volume set in this Discharge Permit, the Permittee shall initiate the following Contingency Plan.</p> <p><u>Contingency Plan</u></p> <ul style="list-style-type: none"> a) Notify NMED within seven days of the discovery of the 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 calculations used to estimate discharge volumes 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. <p>[Subsection A of 20.6.2.3107 NMAC]</p>
22.	<p>In the event that analytical results of a reclaimed domestic wastewater sample collected by the City of Hobbs Wastewater Reclamation Facility (DP-37) exceed the maximum limit for fecal coliform bacteria for Class 2 reclaimed domestic wastewater, the Permittee is not authorized to receive reclaimed domestic wastewater for discharge until the contingency conditions under the City of Hobbs Wastewater Reclamation Facility (DP-37) have been resolved.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
23.	<p>In the event that a release occurs that is not authorized under this Discharge Permit (commonly known as a “spill”), the Permittee shall take measures to mitigate damage from the unauthorized discharge and initiate the notifications and corrective actions required in Section 20.6.2.1203 NMAC and summarized below. A release is defined as such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property.</p> <p>Within <u>24 hours</u> following discovery of the unauthorized discharge, the Permittee shall verbally notify NMED and provide the following information.</p>

#	Terms and Conditions
	<p>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.</p> <p>b) The name and address of the Facility.</p> <p>c) The date, time, location, and duration of the unauthorized discharge.</p> <p>d) The source and cause of unauthorized discharge.</p> <p>e) A description of the unauthorized discharge, including its estimated chemical composition.</p> <p>f) The estimated volume of the unauthorized discharge.</p> <p>g) Any actions taken to mitigate immediate damage from the unauthorized discharge.</p> <p>Within <u>one week</u> following discovery of the unauthorized discharge, the Permittee shall submit written notification to NMED providing the information listed above and any pertinent updates.</p> <p>Within <u>15 days</u> following discovery of the unauthorized discharge, the Permittee shall submit a CAP to NMED describing any corrective actions previously taken and corrective actions to be taken relative to the unauthorized discharge. The CAP shall include the following information.</p> <p>a) A description of proposed actions to mitigate damage from the unauthorized discharge.</p> <p>b) A description of proposed actions to prevent future unauthorized discharges of this nature.</p> <p>c) A schedule for completion of proposed actions.</p> <p>In the event that the unauthorized discharge causes or may with reasonable probability cause water pollution in excess of the standards and requirements of Section 20.6.2.4103 NMAC, and the water pollution will not be abated within 180 days after notice is required to be given pursuant to Paragraph (1) of Subsection A of 20.6.2.1203 NMAC, NMED may require the Permittee to abate water pollution pursuant to Sections 20.6.2.4000 through 20.6.2.4115 NMAC.</p> <p>The Permittee shall not construe anything in this condition as relieving them of the obligation to comply with all requirements of Section 20.6.2.1203 NMAC.</p> <p>[20.6.2.1203 NMAC]</p>
24.	<p>In the event that NMED or the Permittee identifies any failures of the discharge plan, i.e., the application, or this Discharge Permit not specifically noted herein, NMED may require the Permittee to submit a CAP and a schedule for completion of corrective actions to address the failure(s). Additionally, NMED may require a discharge permit modification to achieve compliance with 20.6.2 NMAC.</p>

#	Terms and Conditions
	[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
25.	<p>Within 120 days following the issuance date of this Discharge Permit (by DATE), the Permittee shall properly plug and abandon the following monitoring wells.</p> <ul style="list-style-type: none"> a) MW-1, located northeast of Pivot #2 (32.66041, -103.07648) b) MW-2, located northeast of Pivot #6 (32.65321, -103.07644) c) MW-3, located southeast of Pivot #6 (32.64483, -103.07658) d) MW-4, located southeast of Pivot #11(32.63866, -103.07641) e) MW-6, located southeast of Pivot #16 (32.62435, -103.10234) <p>The Permittee shall abandon monitoring wells in accordance with the attached Monitoring Well Guidance and all applicable local, state, and federal regulations, including 19.27.4 NMAC.</p> <p>The Permittee shall submit documentation describing the well abandonment procedures in accordance with the above-mentioned Guidelines. The Permittee shall submit the well abandonment documentation to NMED within 60 days of completion of well plugging activities.</p> <p>[Subsection A of 20.6.2.3107 NMAC, 19.27.4 NMAC]</p>

Permanent Facility Closure Conditions

#	Terms and Conditions
26.	<p>The Permittee shall perform the following closure measures if S&H Enterprises, Inc. elects to no longer receive reclaimed domestic wastewater from the City of Hobbs-WWTF or in the event the Facility, or a component of the Facility, is proposed to be permanently closed, and upon ceasing discharge.</p> <ul style="list-style-type: none"> a) Remove or plug the transfer line from the City of Hobbs-WWTF to the facility's re-use areas so a discharge can no longer occur. <p>The Permittee shall continue groundwater monitoring until the Permittee meets the requirements of this condition and groundwater monitoring confirms for a minimum of eight consecutive quarterly groundwater sampling events that groundwater does not</p>

#	Terms and Conditions
	<p>exceed the standards of Section 20.6.2.3103 NMAC. This period is referred to as “post-closure.”</p> <p>If at any time monitoring results show an exceedance of a groundwater quality standard in Section 20.6.2.3103 NMAC, the Permittee shall implement the Contingency Plan required by this Discharge Permit.</p> <p>Following notification from NMED that the Permittee may cease post-closure monitoring, the Permittee shall plug and abandon the monitoring well(s) in accordance with the attached Monitoring Well Guidance.</p> <p>When the Permittee has met all closure and post-closure requirements and verified appropriate actions with date stamped photographic evidence or an associated NMED inspection, the Permittee may submit to NMED a written request, including photographic evidence, for termination of the Discharge Permit.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection D of 20.6.2.4103 NMAC, 40 CFR Part 503]</p>

E. GENERAL TERMS AND CONDITIONS

#	Terms and Conditions
27.	<p>RECORD KEEPING - The Permittee shall maintain a written record of the following:</p> <ul style="list-style-type: none"> • Information and data used to complete the application for this Discharge Permit; • Information, data, and documents demonstrating completion of closure activities; • Any releases (commonly known as “spills”) not authorized under this Discharge Permit and reports submitted pursuant to 20.6.2.1203 NMAC; • The operation, maintenance, and repair of all facilities/equipment used to treat, store or dispose of wastewater; • Facility record drawings (plans and specifications) showing the actual construction of the Facility and bear the seal and signature of a licensed New Mexico professional engineer; • Copies of logs, inspection reports, and monitoring reports completed and/or submitted to NMED pursuant to this Discharge Permit; • The volume of wastewater or other wastes discharged pursuant to this Discharge Permit; • Groundwater quality and wastewater quality data collected pursuant to this Discharge Permit; • Copies of construction records (well log) for all sampled groundwater monitoring wells pursuant to this Discharge Permit;

#	Terms and Conditions
	<ul style="list-style-type: none"> • The maintenance, repair, replacement or calibration of any monitoring equipment or flow measurement devices required by this Discharge Permit; and • Data and information related to field measurements, sampling, and analysis conducted pursuant to this Discharge Permit, including: <ul style="list-style-type: none"> ○ the dates, location and times of sampling or field measurements; ○ the name and job title of the individuals who performed each sample collection or field measurement; ○ the sample analysis date of each sample; ○ the name and address of the laboratory, and the name of the signatory authority for the laboratory analysis; ○ the analytical technique or method used to analyze each sample or collect each field measurement; ○ the results of each analysis or field measurement, including raw data; ○ the results of any split, spiked, duplicate or repeat sample; and ○ a copy of the laboratory analysis chain-of-custody as well as a description of the quality assurance and quality control procedures used. <p>The Permittee shall maintain the written record at a location accessible to NMED during a Facility inspection for a minimum of five years. The Permittee shall make the record available to NMED upon request.</p> <p>[Subsections A and D of 20.6.2.3107 NMAC]</p>
28.	<p>SUBMITTALS – The Permittee shall submit both a paper copy and an electronic copy of all notification and reporting documents required by this Discharge Permit, e.g., monitoring reports. The Permittee shall submit paper and electronic documents to the NMED Permit Contact identified on the Permit cover page.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
29.	<p>INSPECTION and ENTRY – The Permittee shall allow NMED to inspect the Facility and its operations that are subject to this Discharge Permit and the WQCC regulations. NMED may upon presentation of proper credentials, enter at reasonable times upon or through any premises in which a water contaminant source is located or in which any maintained records required by this Discharge Permit, the regulations of the federal government, or the WQCC are located.</p> <p>The Permittee shall allow NMED to have access to and reproduce for their use any copy of the records, and to perform assessments, sampling or monitoring during an inspection for the purpose of evaluating compliance with this Discharge Permit and the WQCC regulations.</p>

#	Terms and Conditions
	<p>No person shall construe anything in this Discharge Permit as limiting in any way the inspection and entry authority of NMED under the WQA, the WQCC Regulations, or any other local, state or federal regulations.</p> <p>[Subsection D of 20.6.2.3107 NMAC, NMSA 1978, §§ 74-6-9.B and 74-6-9.E]</p>
30.	<p>DUTY to PROVIDE INFORMATION - The Permittee shall, upon NMED's request, allow for NMED's inspection/duplication of records required by this Discharge Permit and/or furnish to NMED copies of such records.</p> <p>[Subsection D of 20.6.2.3107 NMAC]</p>
31.	<p>MODIFICATIONS and/or AMENDMENTS – In the event the Permittee proposes a change to the Facility or the Facility's discharge that would result in a change in the volume discharged; the location of the discharge; or in the amount or character of water contaminants received, treated or discharged by the Facility, the Permittee shall notify NMED prior to implementing such changes. The Permittee shall obtain NMED's approval (which may require modification of this Discharge Permit) prior to implementing such changes.</p> <p>[Subsection C of 20.6.2.3107 NMAC, Subsections E and G of 20.6.2.3109 NMAC]</p>
32.	<p>PLANS and SPECIFICATIONS – In the event the Permittee proposes to construct a wastewater system or change a process unit of an existing system such that the quantity or quality of the discharge will change substantially from that authorized by this Discharge Permit, the Permittee shall submit construction plans and specifications of the proposed system or process unit to NMED for approval prior to the commencement of construction.</p> <p>In the event the Permittee implements changes to the wastewater system authorized by this Discharge Permit that result in only a minor effect on the character of the discharge, the Permittee shall report such changes (including the submission of record drawings where applicable) to NMED prior to implementation.</p> <p>[Subsections A and C of 20.6.2.1202 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]</p>
33.	<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</p>

#	Terms and Conditions
	<p>penalties, or both. Pursuant to WQA 74-6-10(C) and 74-6-10.1, civil penalties of up to \$15,000 per day of noncompliance may be assessed for each violation of the WQA 74-6-5, the WQCC Regulations, or this Discharge Permit, and civil penalties of up to \$10,000 per day of noncompliance may be assessed for each violation of any other provision of the WQA, or any regulation, standard, or order adopted pursuant to such other provision. In any action to enforce this Discharge Permit, the Permittee waives any objection to the admissibility as evidence of any data generated pursuant to this Discharge Permit.</p> <p>[20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10 and 74-6-10.1]</p>
<p>34.</p>	<p>CRIMINAL PENALTIES – No person shall:</p> <ul style="list-style-type: none"> • Make any false material statement, representation, certification or omission of material fact in an application, record, report, plan or other document filed, submitted or maintained under the WQA; • Falsify, tamper with or render inaccurate any monitoring device, method or record maintained under the WQA; or • Fail to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation. <p>Any person who knowingly violates or knowingly causes or allows another person to violate the requirements of this condition is guilty of a fourth-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who is convicted of a second or subsequent violation of the requirements of this condition is guilty of a third-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who knowingly violates the requirements of this condition or knowingly causes another person to violate the requirements of this condition and thereby causes a substantial adverse environmental impact is guilty of a third-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who knowingly violates the requirements of this condition and knows at the time of the violation that he is creating a substantial danger of death or serious bodily injury to any other person is guilty of a second degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15.</p> <p>[20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10.2.A through 74-6-10.2.F]</p>
<p>35.</p>	<p>COMPLIANCE with OTHER LAWS - Nothing in this Discharge Permit shall be construed in any way as relieving the Permittee of the obligation to comply with any other applicable federal, state, and/or local laws, regulations, zoning requirements, nuisance ordinances, permits or orders.</p> <p>[NMSA 1978, § 74-6-5.L]</p>

#	Terms and Conditions
36.	<p>RIGHT to APPEAL - The Permittee may file a petition for review before the WQCC on this Discharge Permit. Such petition shall be in writing to the WQCC within thirty days of the receipt of postal notice of this Discharge Permit and shall include a statement of the issues raised and the relief sought. Unless the Permittee files a timely petition for review, the decision of NMED shall be final and not subject to judicial review.</p> <p>[20.6.2.3112 NMAC, NMSA 1978, § 74-6-5.O]</p>
37.	<p>TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this Facility or any portion thereof, the Permittee shall:</p> <ul style="list-style-type: none">• Notify the proposed transferee in writing of the existence of this Discharge Permit;• Include a copy of this Discharge Permit with the notice; and• Deliver or send by certified mail to NMED a copy of the notification and proof that the proposed transferee has received such notification. <p>The Permittee shall continue to be responsible for any discharge from the Facility, until both ownership and possession of the Facility have been transferred to the transferee.</p> <p>[20.6.2.3111 NMAC]</p>
38.	<p>PERMIT FEES – The Permittee shall be aware that the payment of permit fees is due at the time of Discharge Permit approval. The Permittee may pay the permit fees in a single payment or they may pay the fee in equal installments on a yearly basis over the term of the Discharge Permit. The Permittee shall remit single payments to NMED no later than 30 days after the Discharge Permit issuance date. The Permittee shall remit initial installment payments to NMED no later than 30 days after the Discharge Permit issuance date; with subsequent installment payments remitted to NMED no later than the anniversary of the Discharge Permit issuance date.</p> <p>Permit fees are associated with <u>issuance</u> of this Discharge Permit. No person shall construe anything in this Discharge Permit as relieving the Permittee of the obligation to pay all permit fees assessed by NMED. A Permittee that ceases discharging or does not commence discharging from the Facility during the term of the Discharge Permit shall pay all permit fees assessed by NMED. NMED shall suspend or terminate an approved Discharge Permit if the Permittee fails to remit an installment payment by its due date.</p> <p>[Subsection F of 20.6.2.3114 NMAC, NMSA 1978, § 74-6-5.K]</p>



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

Facility Information

Facility Name S & H Enterprises, Inc.
Discharge Permit Number DP-875
Legally Responsible Party Gary M. Schubert, President
 S & H Enterprises, Inc.
 2826 East Nadine Road
 Hobbs, New Mexico
 (575) 393-6662

Treatment, Disposal and Site Information

Primary Waste Type Reclaimed Domestic Wastewater
Facility Type Reuse End User

Discharge Locations

Type	Designation	Description & Comments
Reuse Area	Pivot #1	127-acre crop circle, spray irrigation by center pivot system (32.663869, -103.080511).
Reuse Area	Pivot #2	127-acre crop circle, spray irrigation by center pivot system (32.656572, -103.080714).
Reuse Area	Pivot #3	126-acre crop circle, spray irrigation by center pivot system (32.649253, -103.106267).
Reuse Area	Pivot #4	126-acre crop circle, spray irrigation by center pivot system (32.649308, -103.097658).
Reuse Area	Pivot #5	128-acre crop circle, spray irrigation by center pivot system (32.649306, -103.0891).
Reuse Area	Pivot #6	127-acre crop circle, spray irrigation by center pivot system (32.649358, -103.080542).
Reuse Area	Pivot #7	26.6-acre crop circle, spray irrigation by center pivot system (32.645747, -103.084819).
Reuse Area	Pivot #8	126-acre crop circle, spray irrigation by center pivot system (32.642078, -103.106264).
Reuse Area	Pivot #9	126-acre crop circle, spray irrigation by center pivot system (32.642064, -103.097708).
Reuse Area	Pivot #10	129-acre crop circle, spray irrigation by center pivot system (32.642081, -103.089139).
Reuse Area	Pivot #11	127-acre crop circle, spray irrigation by center pivot system (32.642114, -103.080569).
Reuse Area	Pivot #12	127-acre crop circle, spray irrigation by center pivot system (32.634769, -103.110308).
Reuse Area	Pivot #13	126-acre crop circle, spray irrigation by center pivot system (32.634792, -103.101842).
Reuse Area	Pivot #14	127-acre crop circle, spray irrigation by center pivot system (32.634836, -103.093397).
Reuse Area	Pivot #15	125-acre crop circle, spray irrigation by center pivot system (32.6349, -103.083967).



New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

Reuse Area	Pivot #16	126-acre crop circle, spray irrigation by center pivot system (32.627678, -103.106367).
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Flow Metering Locations

Type	Designation	Description & Comments
Hours Recorder	HRMeter 1	A mechanical hours recorder installed on the irrigation supply line to Pivot #1.
Hours Recorder	HRMeter 2	A mechanical hours recorder installed on the irrigation supply line to Pivot #2.
Hours Recorder	HRMeter 3	A mechanical hours recorder installed on the irrigation supply line to Pivot #3.
Hours Recorder	HRMeter 4	A mechanical hours recorder installed on the irrigation supply line to Pivot #4.
Hours Recorder	HRMeter 5	A mechanical hours recorder installed on the irrigation supply line to Pivot #5.
Hours Recorder	HRMeter 6	A mechanical hours recorder installed on the irrigation supply line to Pivot #6.
Hours Recorder	HRMeter 7	A mechanical hours recorder installed on the irrigation supply line to Pivot #7.
Hours Recorder	HRMeter 8	A mechanical hours recorder installed on the irrigation supply line to Pivot #8.
Hours Recorder	HRMeter 9	A mechanical hours recorder installed on the irrigation supply line to Pivot #9.
Hours Recorder	HRMeter 10	A mechanical hours recorder installed on the irrigation supply line to Pivot #10.
Hours Recorder	HRMeter 11	A mechanical hours recorder installed on the irrigation supply line to Pivot #11.
Hours Recorder	HRMeter 12	A mechanical hours recorder installed on the irrigation supply line to Pivot #12.
Hours Recorder	HRMeter 13	A mechanical hours recorder installed on the irrigation supply line to Pivot #13.
Hours Recorder	HRMeter 14	A mechanical hours recorder installed on the irrigation supply line to Pivot #14.
Hours Recorder	HRMeter 15	A mechanical hours recorder installed on the irrigation supply line to Pivot #15.
Hours Recorder	HRMeter 16	A mechanical hours recorder installed on the irrigation supply line to Pivot #16.

Ground Water Monitoring Locations

Type	Designation	Description & Comments
Dry Monitoring Well	MW-1	To be plugged and abandoned (32.66041, -103.07648)
Dry Monitoring Well	MW-2	To be plugged and abandoned (32.65321, -103.07644)
Dry Monitoring Well	MW-3	To be plugged and abandoned (32.64483, -103.07658)
Dry Monitoring Well	MW-4	To be plugged and abandoned (32.63866, -103.07641)
Dry Monitoring Well	MW-6	To be plugged and abandoned (32.62435, -103.10234)
Monitoring Well	MW-4R	located hydrologically downgradient of Pivot #14 (32.63738, -103.08966).



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

Monitoring Well	MW-5	located hydrologically downgradient of Pivot #4 (32.65277, -103.09302).
Monitoring Well	MW-7	located hydrologically downgradient of Pivot #11 (32.646117, -103.076569).
Monitoring Well	MW-8	located hydrologically upgradient of Pivot #8 (32.645275, -103.109553).

Depth-to-Ground Water 70 to 87 feet
Total Dissolved Solids (TDS) 380 mg/L

Permit Information

Original Permit Issued October 16, 1992
Permit Modification October 22, 1993
Permit Modification June 4, 1996
Permit Renewal March 27, 1998
Permit Renewal March 16, 2004
Permit Renewal and Modification October 9, 2012
Permit Renewal November 20, 2018

Current Action **Renewal**
 Application Received September 1, 2023
 Public Notice Published [not yet published]
 Permit Issued (Issuance Date) [issuance date]
 Permitted Discharge Volume 3.6 million gallons per day

NMED Contact Information

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

GWQB Telephone Number (505) 827-2900

NMED Lead Staff Brad Jones
Lead Staff Telephone Number (505) 490-5283
Lead Staff Email Brad.Jones@env.nm.gov or pps.general@env.nm.gov

**NEW MEXICO ENVIRONMENT DEPARTMENT
GROUND WATER QUALITY BUREAU
MONITORING WELL CONSTRUCTION AND ABANDONMENT GUIDELINES**

Purpose: These guidelines identify minimum construction and abandonment details for installation of water table monitoring wells under groundwater Discharge Permits issued by the NMED's Ground Water Quality Bureau (GWQB) and Abatement Plans approved by the GWQB. Proposed locations of monitoring wells required under Discharge Permits and Abatement Plans and requests to use alternate installation and/or construction methods for water table monitoring wells or other types of monitoring wells (e.g., deep monitoring wells for delineation of vertical extent of contaminants) must be submitted to the GWQB for approval prior to drilling and construction.

General Drilling Specifications:

1. All well drilling activities must be performed by an individual with a current and valid well driller license issued by the State of New Mexico in accordance with 19.27.4 NMAC. Use of drillers with environmental well drilling experience and expertise is highly recommended.
2. Drilling methods that allow for accurate determinations of water table locations must be employed. All drill bits, drill rods, and down-hole tools must be thoroughly cleaned immediately prior to the start of drilling. The borehole diameter must be drilled a minimum of 4 inches larger than the casing diameter to allow for the emplacement of sand and sealant.
3. After completion, the well should be allowed to stabilize for a minimum of 12 hours before development is initiated.
4. The well must be developed so that formation water flows freely through the screen and is not turbid, and all sediment and drilling disturbances are removed from the well.

Well Specifications (see attached monitoring well schematic):

5. Schedule 40 (or heavier) polyvinyl chloride (PVC) pipe, stainless steel pipe, carbon steel pipe, or pipe of an alternate appropriate material that has been approved for use by NMED must be used as casing. The casing must have an inside diameter not less than 2 inches. The casing material selected for use must be compatible with the anticipated chemistry of the groundwater and appropriate for the contaminants of interest at the facility. The casing material and thickness selected for use must have sufficient collapse strength to withstand the pressure exerted by grouts used as annular seals and thermal properties sufficient to withstand the heat generated by the hydration of cement-based grouts. Casing sections may be joined using welded, threaded, or mechanically locking joints; the method selected must provide sufficient joint strength for the specific well installation. The casing must extend from the top of the screen to at least one foot above ground surface. The top of the casing must be fitted with a removable cap, and the exposed casing must be protected by a locking steel well shroud. The shroud must be large enough in diameter to allow easy access for removal of the cap. Alternatively, monitoring wells may be completed below grade. In this case, the casing must extend from the top of the screen to 6 to 12 inches below the ground surface; the monitoring wells must be sealed with locking, expandable well plugs; a flush-mount, watertight well vault that is rated to withstand traffic loads must be emplaced around the wellhead; and the cover must be secured with at least one bolt. The vault cover must indicate that the wellhead of a monitoring well is contained within the vault.
6. A 20-foot section (maximum) of continuous-slot, machine slotted, or other manufactured PVC or stainless steel well screen or well screen of an alternate appropriate material that has been approved for use by NMED must be installed across the water table. Screens created by cutting slots into solid casing with saws or other tools must not be used. The screen material selected for use must be compatible with the anticipated chemistry of the ground water and appropriate for the contaminants of interest at the facility. Screen sections may be joined using welded, threaded, or mechanically

- locking joints; the method selected must provide sufficient joint strength for the specific well installation and must not introduce constituents that may reasonably be considered contaminants of interest at the facility. A cap must be attached to the bottom of the well screen; sumps (i.e., casing attached to the bottom of a well screen) should not be installed. The bottom of the screen must be installed no more than 15 feet below the water table; the top of the well screen must be positioned not less than 5 feet above the water table. The well screen slots must be appropriately sized for the formation materials and should be selected to retain 90 percent of the filter pack. A slot size of 0.010 inches is generally adequate for most installations.
7. Casing and well screen must be centered in the borehole by placing centralizers near the top and bottom of the well screen.
 8. A filter pack must be installed around the screen by filling the annular space from the bottom of the screen to 2 feet above the top of the screen with clean silica sand. The filter pack must be properly sized to prevent fine particles in the formation from entering the well; clean medium to coarse silica sand is generally adequate as filter pack material for 0.010-inch slotted well screen. For wells deeper than 30 feet, the sand must be emplaced by a tremmie pipe. The well should be surged or bailed to settle the filter pack and additional sand added, if necessary, before the bentonite seal is emplaced.
 9. A bentonite seal must be constructed immediately above the filter pack by emplacing bentonite chips or pellets (3/8-inch in size or smaller) in a manner that prevents bridging of the chips/pellets in the annular space. The bentonite seal must be 3 feet in thickness and hydrated with clean water. Adequate time should be allowed for expansion of the bentonite seal before installation of the annular space seal.
 10. The annular space above the bentonite seal must be sealed with cement grout or a bentonite-based sealing material acceptable to the State Engineer pursuant to 19.27.4 NMAC. A tremmie pipe must be used when placing sealing materials at depths greater than 20 feet below the ground surface. Annular space seals must extend from the top of the bentonite seal to the ground surface (for wells completed above grade) or to a level 3 to 6 inches below the top of casing (for wells completed below grade).
 11. For monitoring wells finished above grade, a concrete pad (2-foot minimum radius, 4-inch minimum thickness) must be poured around the shroud and wellhead. The concrete and surrounding soil must be sloped to direct rainfall and runoff away from the wellhead. The installation of steel posts around the well shroud and wellhead is recommended for monitoring wells finished above grade to protect the wellhead from damage by vehicles or equipment. For monitoring wells finished below grade, a concrete pad (2-foot minimum radius, 4-inch minimum thickness) must be poured around the well vault and wellhead. The concrete and surrounding soil must be sloped to direct rainfall and runoff away from the well vault.

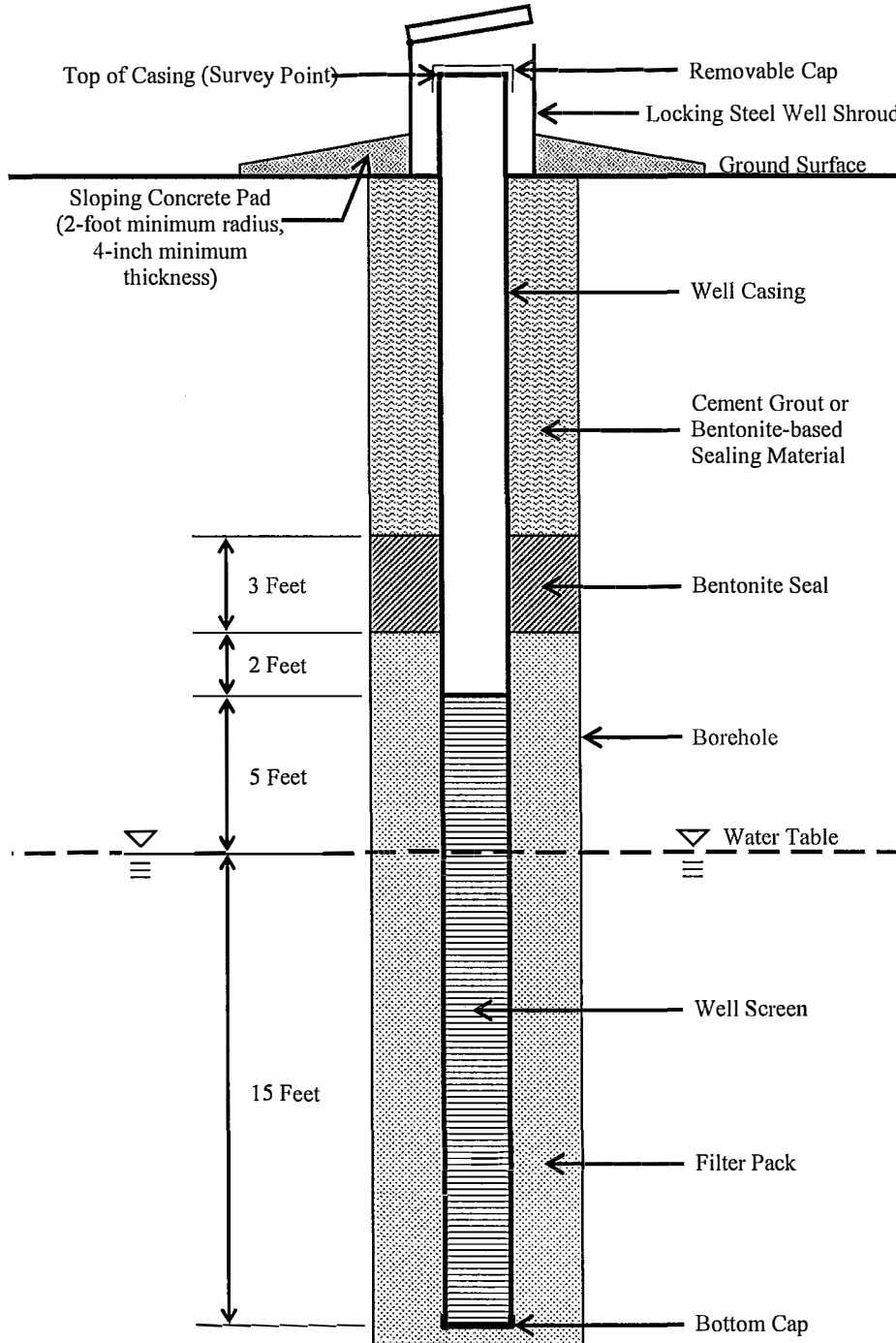
Abandonment:

12. Approval for abandonment of monitoring wells used for ground water monitoring in accordance with Discharge Permit and Abatement Plan requirements must be obtained from NMED prior to abandonment.
13. Well abandonment must be accomplished by removing the well casing and placing neat cement grout, bentonite-based plugging material, or other sealing material approved by the State Engineer for wells that encounter water pursuant to 19.27.4 NMAC from the bottom of the borehole to the ground surface using a tremmie pipe. If the casing cannot be removed, neat cement grout, bentonite-based plugging material, or other sealing material approved by the State Engineer must be placed in the well using a tremmie pipe from the bottom of the well to the ground surface.
14. After abandonment, written notification describing the well abandonment must be submitted to the NMED. Written notification of well abandonment must consist of a copy of the well plugging record submitted to the State Engineer in accordance with 19.27.4 NMAC, or alternate documentation containing the information to be provided in a well plugging record required by the State Engineer as specified in 19.27.4 NMAC.

Deviation from Monitoring Well Construction and Abandonment Requirements: Requests to construct water table monitoring wells or other types of monitoring wells for groundwater monitoring under groundwater Discharge Permits or Abatement Plans in a manner that deviates from the specified requirements must be submitted in writing to the GWQB. Each request must state the rationale for the proposed deviation from these requirements and provide detailed evidence supporting the request. The GWQB will approve or deny requests to deviate from these requirements in writing.

MONITORING WELL SCHEMATIC

(Not to Scale)



Fertilizer Log

New Mexico Environment Department Ground Water Quality Bureau



DATE:

MONITORING REPORT DUE DATE:

FACILITY NAME:

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

DP#:

FIELD:¹

ACRES IN FIELD:

DAY, MONTH & YEAR OF APPLICATION ²	A TYPE organic = O inorganic = I	B FORM granular = G liquid = L	C NITROGEN CONCENTRATION %	D FERTILIZER: TOTAL AMOUNT APPLIED lbs	E NITROGEN: TOTAL AMOUNT APPLIED lbs/acre (C X D) / # acres	NOTES ³
DD - MM - YY	I	G	10	200	5 (field size 4 acres)	
TOTALS						

¹One Fertilizer Log form should be used for each field.
²Each form must reflect the *most recent* 12 months of fertilizer application.
³In the event application did not occur, please report "no application" in the NOTES column.