



**REGION 6**  
**1445 ROSS AVENUE**  
**DALLAS, TEXAS 75202-2733**

**NPDES Permit No NM0024830**

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**AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq; the "Act"),

Abiquiu WWTP  
P.O. Box 133  
Abiquiu, NM 87510

is authorized to discharge to receiving waters named Rio Chama, of the Rio Grande Basin in the Waterbody Segment Code No. 20.6.4.116, from a facility located north of US Highway 84 in Abiquiu, Rio Arriba County, New Mexico.

The discharge is located on that water at the following coordinates:

Outfall 001: Latitude 36° 12' 50" North and Longitude 106° 19' 20" West

in accordance with this cover page and the effluent limitations, monitoring requirements, and other conditions set forth in Part I, Part II, Part III, and Part IV hereof.

This permit supersedes and replaces NPDES Permit No. NM0024830 issued January 1, 2006.

This permit shall become effective on

This permit and the authorization to discharge shall expire at midnight,

Issued on

Prepared by

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Miguel I. Flores  
Division Director  
Water Quality Protection Division (6WQ)

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Scott W. Stine, Ph.D.  
Life Scientist  
Permits & Technical Section (6WQ-PP)

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## PART I – REQUIREMENTS FOR NPDES PERMITS

### SECTION A. LIMITATIONS AND MONITORING REQUIREMENTS

#### 1. Effluent Limits – 0.04 MGD Design Flow

Beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge treated municipal wastewater to the Rio Chama, in Segment Number 20.6.4.116, from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
		Standard Units			
POLLUTANT	STORET CODE	MINIMUM	MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH	00400	6.6	8.5	Five/Week (*2)	Grab

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
		lbs/day, unless noted			mg/L, unless noted (*1)				
POLLUTANT	STORET CODE	30-DAY AVG	DAILY MAX	7-DAY AVG	30-DAY AVG	DAILY MAX	7-DAY AVG	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	50050	Report MGD	Report MGD	Report MGD	N/A	N/A	N/A	Daily	Instantaneous
Biochemical Oxygen Demand, 5-day	00310	10	N/A	15	30	N/A	45	Once/Month	Grab
Biochemical Oxygen Demand, 5-day, % removal, minimum	TBD	≥ 85% (*7)	N/A	N/A	N/A	N/A	N/A	Once/Month	Calculation (*7)
Total Suspended Solids	00530	10	N/A	15	30	N/A	45	Once/Month	Grab

Total Suspended Solids, % removal, minimum	TBD	≥ 85% (*7)	N/A	N/A	N/A	N/A	N/A	Once/Month	Calculation (*7)
<i>E. coli</i> Bacteria	51040	N/A	N/A	N/A	47 (*3)	88 (*3)	N/A	Once/Month	Grab
Total Residual Chlorine	50060	N/A	N/A	N/A	N/A	3 µg/l	N/A	Five/Week (*2)	Instantaneous Grab (*4)

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
WHOLE EFFLUENT TOXICITY TESTING (*5) (48-Hour Static Renewal)	30-DAY AVG MINIMUM	48-HR MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
<i>Daphnia pulex</i>	Report	Report	Once/Term (*6)	24-Hr Composite
<i>Pimephales promelas</i>	Report	Report	Once/Term (*6)	24-Hr Composite

Footnotes:

- \*1 See Part II, Section A, Minimum Quantification Level (MQL) of permit.
- \*2 Sampling at least one day apart.
- \*3 Colony forming units (cfu) per 100 ml.
- \*4 The effluent limitation for TRC is the instantaneous maximum grab sample taken during periods of chlorine use and can not be averaged for reporting purposes. Instantaneous maximum is defined in 40 CFR Part 136 as being measured within 15 minutes of sampling.
- \*5 Monitoring and reporting requirements begin on the effective date of this permit. See PART II, Whole Effluent Toxicity Testing Requirements for additional WET monitoring and reporting conditions.
- \*6 Once per permit-term. The test shall take place between November 1 and April 30 during the first year of the permit term. This permit does not establish requirements to automatically increase the WET testing frequency after a test failure, or to begin a toxicity reduction evaluation (TRE) in the event of multiple failures. However, upon failure of any WET test, the permittee must report the results to EPA, Ohkay Owingeh, and NMED, Surface Water Quality Bureau, in writing, within 5 business days of notification of the test failure. EPA, Ohkay Owingeh, and NMED will review the test results and determine the appropriate action necessary, if any.
- \*7 Percent removal is calculated using the following equation: (average monthly influent concentration – average monthly effluent concentration) ÷ average monthly influent concentration.

**FLOATING SOLIDS, VISIBLE FOAM AND/OR OILS**

There shall be no discharge of floating solids or visible foam in other than trace amounts. There shall be no discharge of visible films of oil, globules of oil, grease or solids in or on the water, or coatings on stream banks.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge from the final treatment unit prior to the receiving stream.

**B. SCHEDULE OF COMPLIANCE**

None.

**C. MONITORING AND REPORTING (MINOR DISCHARGERS)**

Monitoring information shall be on Discharge Monitoring Report Form(s) EPA 3320-1 as specified in Part III.D.4 of this permit and shall be submitted quarterly. Each quarterly submittal shall include separate forms for each month of the reporting period.

1. Reporting periods shall end on the last day of the months March, June, September, and December.
2. The permittee is required to submit regular quarterly reports as described above postmarked no later than the 28th day of the month following each reporting period.
3. If any 7-day average or daily maximum value exceeds the effluent limitations specified in Part I.A, the permittee shall report the excursion in accordance with the requirements of Part III.D.
4. Any 30-day average, 7-day average, or daily maximum value reported in the required Discharge Monitoring Report which is in excess of the effluent limitation specified in Part I.A shall constitute evidence of violation of such effluent limitation and of this permit.
5. Other measurements of oxygen demand (e.g., TOC and COD) may be substituted for five-day Biochemical Oxygen Demand (BOD<sub>5</sub>) or for five-day Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>), as applicable, where the permittee can demonstrate long-term correlation of the method with BOD<sub>5</sub> or CBOD<sub>5</sub> values, as applicable. Details of the correlation procedures used must be submitted and prior approval granted by the permitting authority for this procedure to be

acceptable. Data reported must also include evidence to show that the proper correlation continues to exist after approval.

6. The permittee shall report all overflows with the Discharge Monitoring Report submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: the date, time, duration, location, estimated volume, and cause of the overflow; observed environmental impacts from the overflow; actions taken to address the overflow; and ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary). Any noncompliance which may endanger health or the environment shall also be orally reported to the New Mexico Environment Department at (505) 827-0187 and the Ohkay Owingeh, as soon as possible, but within 12 hours from the time the permittee becomes aware of the circumstance. A written report of overflows which endanger health or the environment shall be provided to EPA, Ohkay Owingeh, and New Mexico Environment Department within 5 days of the time the permittee becomes aware of the circumstance.
7. The permittee shall submit a copy of an annual summary of the data that results from whole effluent toxicity testing to:

Field Supervisor  
U.S. Fish and Wildlife Service  
New Mexico Ecological Services Field Office  
2105 Osuna NE  
Albuquerque, NM 87113

And

EPA:  
Compliance Assurance and Enforcement Division  
Water Enforcement Branch (6EN-W)  
U.S. Environmental Protection Agency, Region 6  
1445 Ross Avenue  
Dallas, TX 75202-2733

And

New Mexico:  
Program Manager  
Surface Water Quality Bureau  
New Mexico Environment Department  
P.O. Box 5469  
1190 Saint Francis Drive  
Santa Fe, NM 87502-5469

And

Ohkay Owingeh:  
Water Quality Program Manager  
Ohkay Owingeh  
P.O. Box 717  
San Juan, NM 87566

**D. OVERFLOW REPORTING**

The permittee shall report all overflows with the DMR submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: date, time, duration, location, estimated volume, and cause of the overflow. They shall also include observed environmental impacts from the overflow; actions taken to address the overflow; and, the ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary).

Overflows that endanger health or the environment shall be orally reported to EPA at (214) 665-6595, Ohkay Owingeh and NMED Surface Water Quality Bureau at (505) 827-0187, within 12 hours from the time the permittee becomes aware of the circumstance. A written report of overflows that endanger health or the environment shall be provided to EPA, Ohkay Owingeh, and NMED Surface Water Quality Bureau within 5 days of the time the permittee becomes aware of the circumstance.

**E. POLLUTION PREVENTION REQUIREMENTS**

The permittee shall institute a program within 12 months of the effective date of the permit (or continue an existing one) directed towards optimizing the efficiency and extending the useful life of the facility. The permittee shall consider the following items in the program:

- a. The influent loadings, flow and design capacity;
- b. The effluent quality and plant performance;
- c. The age and expected life of the wastewater treatment facility's equipment;
- d. Bypasses and overflows of the tributary sewerage system and treatment works;
- e. New developments at the facility;
- f. Operator certification and training plans and status;
- g. The financial status of the facility;
- h. Preventative maintenance programs and equipment conditions and;
- i. An overall evaluation of conditions at the facility.  
permit is re-issued.