



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

**NPDES Permit No NM0022250**

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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"),

Albuquerque Bernalillo County Water Utility Authority (ABCWUA) WWTP  
4201 2<sup>nd</sup> Street SW  
Albuquerque, NM 871

is authorized to discharge to receiving waters named Rio Grande, in Waterbody Segment Code No. 20.6.4.105, from a facility located at 4201 Second Street SW in the City of Albuquerque, County of Bernalillo, State of New Mexico.

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

Outfall 001: Latitude 35° 01' 04" North, Longitude 106° 40' 13" 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 replaces NPDES Permit No. NM0022250 issued March 31, 2005.

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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Laurence E. Giglio  
Environmental Engineer  
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## **PART I – REQUIREMENTS FOR NPDES PERMITS**

### **SECTION A. LIMITATIONS AND MONITORING REQUIREMENTS**

#### 1. OUTFALL 001: FINAL Effluent Limits – 76 MGD Design Flow

During the period 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 Grande, in Segment Number 20.6.4.105, from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS						MONITORING REQUIREMENTS	
		lbs/day, unless noted			mg/l, unless noted (*M)				
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	***	***	***	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand, 5-day	80082	709	N/A	Report	15	N/A	22.5	Daily	24-Hour Composite
Total Suspended Solids	00530	19015	N/A	28522	30	N/A	45	Daily	24-Hour Composite
Total Suspended Solids % removal, minimum (*R)	81011	≥85% (*P)	---	---	---	---	---	Daily	Calculation
E. Coli Bacteria cfu/100 ml (*C)	51040	135 (*B)	135 (*B)	N/A	47 (*C)	47 (*C)	N/A	Daily	Grab
Ammonia Nitrogen (Total as N)	00610	634	951	N/A	1.0	1.5	N/A	Daily	24-Hour Composite
Total Inorganic Nitrogen (*N)	00630	9513	6342	N/A	10	15	N/A	Daily	24-Hour Composite
Dissolved Oxygen, minimum	00300	N/A	N/A	N/A	4 mg/l	N/A	N/A	Daily	Grab
Mercury, Total	71900	0.007	0.011	N/A	0.012 ug/l (*H)	0.017 ug/l (*H)	N/A	Once/week	24-Hour Composite
Total Residual Chlorine	50060	N/A	N/A	N/A	N/A	11 ug/l	N/A	Daily (*T)	Instantaneous Grab (*T)
PCBs (*G)	39516	N/A	Report (*G)	N/A	N/A	Report (*G)	N/A	Once (*G)	24-Hour Composite

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
		Standard Units			
POLLUTANT	STORET CODE	MINIMUM	MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH	00400	6.6	9.0	Daily	Grab

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
	30-DAY AVG MINIMUM	7-DAY MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
WHOLE EFFLUENT TOXICITY LIMITS (22414) (7-Day NOEC) (*W)	61%	61%		
Ceriodaphnia dubia	Report	Report	Once/Quarter	24-Hr Composite
Pimephales promelas	Report	Report	Once/Quarter	24-Hr Composite

ADDITIONAL REPORTING	ANNUAL PRETREATMENT REPORT
	MEASUREMENT FREQUENCY
Pretreatment Requirements (*P)	Annual

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING (*M)	MONITORING REQUIREMENTS	
		MEASUREMENT FREQUENCY	SAMPLE TYPE
Expanded Effluent Testing (*E)	Report	1 each in 2 <sup>nd</sup> , 3 <sup>rd</sup> , & 4 <sup>th</sup> years of the permit (*E)	24-Hr Composite (*S)

Footnotes:

- \*M See **Appendix A of Part II** of the permit for minimum quantification limits.
- \*R Percent removal is calculated using the following equation:  

$$[\text{average monthly influent concentration (mg/l)} - \text{average monthly effluent concentration (mg/l)}] \div \text{average monthly influent concentration (mg/l)}$$
- \*C Colony forming units (cfu) per 100 ml.
- \*B Billion ( $1.0 \times 10^9$ ) cfu/day. Loading limit calculated as follows;  $[\text{Flow in MGD} \times 47 \text{ cfu/100 ml} \times 3.79 \times 10^7]$
- \*N Total Inorganic Nitrogen (TIN) shall be calculated as the sum of: Ammonia (NH<sub>3</sub>) + Ammonium (NH<sub>4</sub>) + Nitrate (NO<sub>3</sub>) + Nitrite (NO<sub>2</sub>).
- \*T TRC shall be measured during periods when chlorine is used as either backup bacteria control, when disinfection of plant treatment equipment is required or when used for filamentaceous algae control. For permit reporting, when chlorine is not used in the treatment system the permittee may report N/A on the DMR. Regulations at 40 CFR Part 136 define "instantaneous grab" as analyzed within 15 minutes of collection. The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.

- \*H Mercury testing shall use Method 1631 specified in Footnote (\*2) of **Appendix A of Part II** of the permit.
- \*G PCB Testing shall be one time during the first 12-months after the permit effective date. Test shall use Method 1668A, as revised: Chlorinated Biphenyl Congeners in Water, Soil, Sediment and Tissue by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS).
- \*W Monitoring and reporting requirements begin on the effective date of this permit. See **Appendix B of Part II** of the permit for Whole Effluent Toxicity testing requirements for additional WET monitoring and reporting conditions.
- \*P See **Appendix C of Part II** of the permit for pretreatment requirements.
- \*E See NPDES Permit Application Form 2A; Tables A.12, B.6, and Part D for the list of pollutants to include in this testing. Samples are to be taken on the same day as the WET test event for that year. The permittee shall report the results as a separate attachment in tabular form sent to the Permits and Technical Assistance Section Chief of the Water Quality Protection Division within 60 days of receipt of the lab analysis.
- \*S 24-Hour composite samples are required for all except E. Coli bacteria, pH, TRC, DO and sulfite, which are grab samples.

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

All waters shall be free from objectionable oils, scum, foam, grease, and other floating materials and suspended substances of a persistent nature resulting from other than natural causes including but not limited to 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 from the discharge after the final treatment unit and prior to the receiving stream.

**B. SCHEDULE OF COMPLIANCE**

NONE

**C. MONITORING AND REPORTING (MAJOR DISCHARGES)**

1. The permittee shall effectively monitor the operation and efficiency of all treatment and control facilities and the quantity and quality of the treated discharge.
2. Monitoring information required shall be submitted on Discharge Monitoring Report Form EPA 3320-1 to EPA and NMED as required in Part III, D.4.
  - a. Reporting periods shall end on the last day of each month.
  - b. The permittee is required to submit regular monthly reports as described above postmarked no later than the 15th day of the month following each reporting period.
  - c. The annual sludge report required in Part IV of the permit is due on February 19 of each year and covers the previous calendar year from January 1 through December 31.
3. If any 30 day average, monthly average, 7 day average, weekly 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, monthly average, 7 day average, weekly 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 Pueblo of Isleta at (505) 869-5748 and to the U. S. Fish and Wildlife Service, Albuquerque Field office at (505) 761-4525, the EPA at (214) 665-6595 and the New Mexico Environment Department at (505) 827-0187 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, the New Mexico Environment Department, the Pueblo of Isleta and the U. S. Fish and Wildlife Service, Albuquerque Field office, within 5 days of the time the permittee becomes aware of the circumstance.

#### **D. 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.

## **PART II - OTHER CONDITIONS**

### **A. MINIMUM QUANTIFICATION LEVEL (MQL)**

See list of MQL's at **Appendix A of Part II** attached. For pollutants listed on Appendix A of Part II attached with MQL's, analyses must be performed to the listed MQL. If any individual analytical test result is less than the MQL listed, a value of zero (0) may be used for that pollutant result for the Discharge Monitoring Report (DMR) calculations and reporting requirements.

In addition, any additional pollutant sampling for purposes of this permit, including renewal applications or any other reporting, shall be tested to the MQL shown on the attached Appendix A of Part II. Results of analyses that are less than the listed MQL maybe reported as "non detect" (ND).

### **B. 24-HOUR ORAL REPORTING: DAILY MAXIMUM LIMITATION VIOLATIONS**

Under the provisions of Part III.D.7.b.(3) of this permit, violations of daily maximum limitations for the following pollutants shall be reported orally to EPA Region 6, Compliance and Assurance Division, Water Enforcement Branch (6EN-W), Dallas, Texas, NMED and the Pueblo of Isleta within 24 hours from the time the permittee becomes aware of the violation followed by a written report in 5 days.

- E. Coli Bacteria
- Total Residual Chlorine
- Ammonia, Nitrogen
- Total Inorganic Nitrogen
- Mercury

### **C. PERMIT MODIFICATION AND REOPENER**

In accordance with 40 CFR Part 122.44(d), the permit may be reopened and modified during the life of the permit if relevant portions of the New Mexico's Water Quality Standards for Interstate and Intrastate Streams and/or the Pueblo of Isleta Water Quality Standards are revised, established and/or remanded.

In accordance with 40 CFR Part 122.62(s)(2), the permit may be reopened and modified if new information is received that was not available at the time of permit issuance that would have justified the application of different permit conditions at the time of permit issuance. Permit modifications shall reflect the results of any of these actions and shall follow regulations listed at 40 CFR Part 124.5.

### **D. WHOLE EFFLUENT TOXICITY TESTING (WET)**

See requirements for WET testing at **Appendix B of Part II** attached.

**E. CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS**

See pretreatment requirements at **Appendix C of Part II** attached.