



REGION 6
1445 ROSS AVENUE
DALLAS, TEXAS 75202-2733

NPDES Permit No NM0020150

**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"),

City of Belen
100 South Main Street
Belen, NM 87002

is authorized to discharge from a facility located at 1300 Conservancy Road, Belen, in Valencia County, New Mexico. The discharge will be to receiving waters named Bosque Drain, thence to the Rio Grande, in Segment No. 20.6.4.105 of the Rio Grande Basin,

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

Outfall 001: Latitude 34° 38' 32" North, Longitude 106° 46' 36" 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 shall become effective on

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

Issued on

Prepared by

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PART I – REQUIREMENTS FOR NPDES PERMITS

SECTION A. LIMITATIONS AND MONITORING REQUIREMENTS

1. Effluent Limits – 1.20 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 from Outfalls 001. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS	
		Standard Units				
POLLUTANT	MINIMUM	MAXIMUM		MEASUREMENT FREQUENCY	SAMPLE TYPE	
pH	6.6	9.0		Twice/Week	Grab	

EFFLUENT CHARACTERISTICS		DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
		lbs/day, unless noted		mg/l, unless noted			
POLLUTANT	30-DAY AVG	7-DAY AVG	30-DAY AVG	7-DAY AVG	DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	Report MGD	Report MGD	***	***	***	Continuous	Totalizing Meter
Biochemical Oxygen Demand, 5-day	300	450	30	45	N/A	3/Week	6-Hr Composite
BOD% Removal (*1)	≥85% (*1)	N/A	N/A	N/A	N/A	N/A	N/A
TSS% Removal	≥85% (*1)	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	300	450	30	45	N/A	3/Week	6-Hr Composite
E. Coli Bacteria (*2)	5.73X 10 ⁹ (*3)	Report (*2)	126	N/A	410	3/Week	Grab
Total Residual Chlorine	N/A	N/A	N/A	N/A	19 ug/l (*2)	Daily	Grab (*4)

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
WHOLE EFFLUENT TOXICITY TESTING (7-day Static Renewal)	30-DAY AVG MINIMUM	7-DAY MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
<i>Ceriodaphnia dubia</i> (Cd)	Report	Report	1/Quarter (*5)	24-Hr Composite
<i>Pimephales promelas</i> (Pp)	Report	Report	1/Quarter (*5)	24-Hr Composite

Footnotes:

- *1 Percent removal = $\{(\text{Avg. Influent concentration} - \text{Avg. effluent concentration}) / \text{Avg. Influent concentration}\} \times 100\}$
- *2 Colony forming units (cfu) per 100 ml.
- *3 Colony forming units (cfu) per day. Loading is calculated by multiplying the bacteria concentration (in cfu/100 mL) * flow (in MGD) * 3.79×10^7 [a conversion factor].
- *4 Instantaneous Grab. 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. TRC limitations will apply when chlorine is used in the treatment process, either alone, or in combination with ultraviolet light treatment.
- *5 Once per quarter. If the first full year of testing, four (4) quarterly tests pass, then the frequency maybe reduced to 1/6-months for Cd and 1/year for Pp. See Part II of the Permit for monitoring frequency reduction. If any test fails, testing frequency will continue at 1/quarter until the expiration date of the permit. Additionally, for this failure, TRE requirements, as defined in Part II, Section E, Whole Effluent Toxicity Testing Requirements, will be conducted. At the expiration date of this permit, until a renewal permit is issued, biomonitoring frequency monitoring reverts to 1/quarter until the permit is re-issued. See Part II, Section E of the permit.

A. 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. MONITORING AND REPORTING (MAJOR DISCHARGERS)

Monitoring information shall be as specified in Part III.D.4 of this permit and shall be submitted monthly.

- a. Reporting periods shall end on the last day of the 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. 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.
- d. 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.
- e. Other measurements of oxygen demand (e.g., TOC and COD) may be substituted for five-day Biochemical Oxygen Demand (BOD5) or for five-day Carbonaceous Biochemical Oxygen Demand (CBOD5), as applicable, where the permittee can demonstrate long-term correlation of the method with BOD5 or CBOD5 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.

C. OVERFLOW REPORTING

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).

Overflows that endanger health or the environment shall be orally reported to EPA at (214) 665-6595, and NMED Surface Water Quality Bureau at (505) 827-0187, within 24 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 and the NMED Surface Water Quality Bureau 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.

E. APPLICATION, DMR, AND COMPLIANCE STATUS REPORT

A duplicate copy of application for permit renewal, monthly Discharge Monitoring Report, and compliance status report, if there are any, shall be sent to New Mexico Environment Department (NMED) at the mailing address listed in Part III of this permit.