



PUBLIC MEETING

Phase 1: Bosque Water Reclamation Facility

Water Authority Project No. FY26-011
Funding Reference No. CWSRF/Water Trust Board (pending)

Albuquerque Bernalillo County Water Utility Authority

Date: September 1, 2026

Time: 5:30 to 7:00 p.m.

Place: Raymond Sanchez Community Center
9800 4th Street, NW
Albuquerque, NM 87114



Project Team

Albuquerque Bernalillo County Water Utility Authority (Water Authority)

David Laughlin, PE
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Carollo Engineers
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Easton Hamblin
Gary Peterson

SWCA
Andrea McArdle



Agenda

- Review Project Background and Purpose
- Summary of the Preliminary Engineering Report (PER)
- Summary of the Alternatives Evaluated
- Summary of the Scope and Environmental Review Process
- Overview of Applicable Laws and Regulations
- Review of Coordinating Agencies and Stakeholders
- Review of Project Schedule and Milestones
- Public Question and Answer and Comment



Project Background and Purpose

Providing a source of reuse to Albuquerque's westside is a Portfolio Priority 1 component of our long-term water resources management plan called *Water 2120: Securing our Water Future*.

Water 2120: Securing Our Water Future



Project Background and Purpose

- Reuse is permitted by NMED Groundwater Bureau and meets the permit standards.
- The Bosque Water Reclamation Facility and eventual westside reuse distribution system will provide a source of reuse water to Albuquerque's westside and diversify the Water Authority's supply portfolio.
- Reuse water produced at Bosque Water Reclamation Facility will be sufficient water quality for irrigation systems and turf.
- Reuse water is used for playing fields, city parks, and for landscaping in new commercial and housing developments.
- Reuse water helps conserve our drinking water resources and provides drought resiliency.



Project Background and Purpose

The Integrated Infrastructure Plan identified a need to provide capacity relief in the Albuquerque westside collection system. The Water Authority planning process assessed that the Bosque Water Reclamation Facility is the most cost-effective way to accomplish this need.



ABCWUA Integrated
Infrastructure Plan - Volume I
Methodology and Supporting Technical
Documentation

JULY 2020 | DRAFT



Bosque Water Reclamation Facility Overview

- The Bosque Water Reclamation Facility (Bosque WRF) will be a liquids only treatment plant that will:
 - Decrease collection interceptor flow, mitigate pipe replacement, and extend collection system service life
 - Provide high-quality treated water for discharge to the Rio Grande
- The Bosque WRF components include:
 - A flow split structure to convey collection water from the existing interceptor to the facility
 - Treatment will be accomplished using state-of-the-art Membrane Bioreactor technology, and treatment equipment will be in enclosed buildings or in covered tanks
 - A nature-based vegetated, earthen-lined channel through the bosque which will help protect and enhance habitat by returning a consistent source of flow to the Rio Grande



Program Implementation Phases



Implementation Stage 1: Construction of the Bosque WRF infrastructure for 10 million gallons per day (mgd) build-out treatment capacity and initially equip it to treat 5 mgd. The additional build-out equipment to treat 10 mgd will be incorporated based on system needs and budget capacity.

Implementation Stage 2: Design and construction of a reuse distribution system to include reuse conveyance piping, pump stations, etc. to allow the Water Authority to deliver reuse to parks, golf courses, and other large irrigation water users. This stage of the program may be implemented at any time, depending on budget capacity and/or external funding.



Summary of the PER

- Included:
 - Project Planning Area
 - Existing Facilities
 - Need for Project
 - Selection of Alternatives
 - Proposed Project
 - Conclusions
- Received Final NMED Approval – June 2026

Albuquerque Bernalillo County
Water Utility Authority

Westside Water Reuse Program



Preliminary Engineering Report

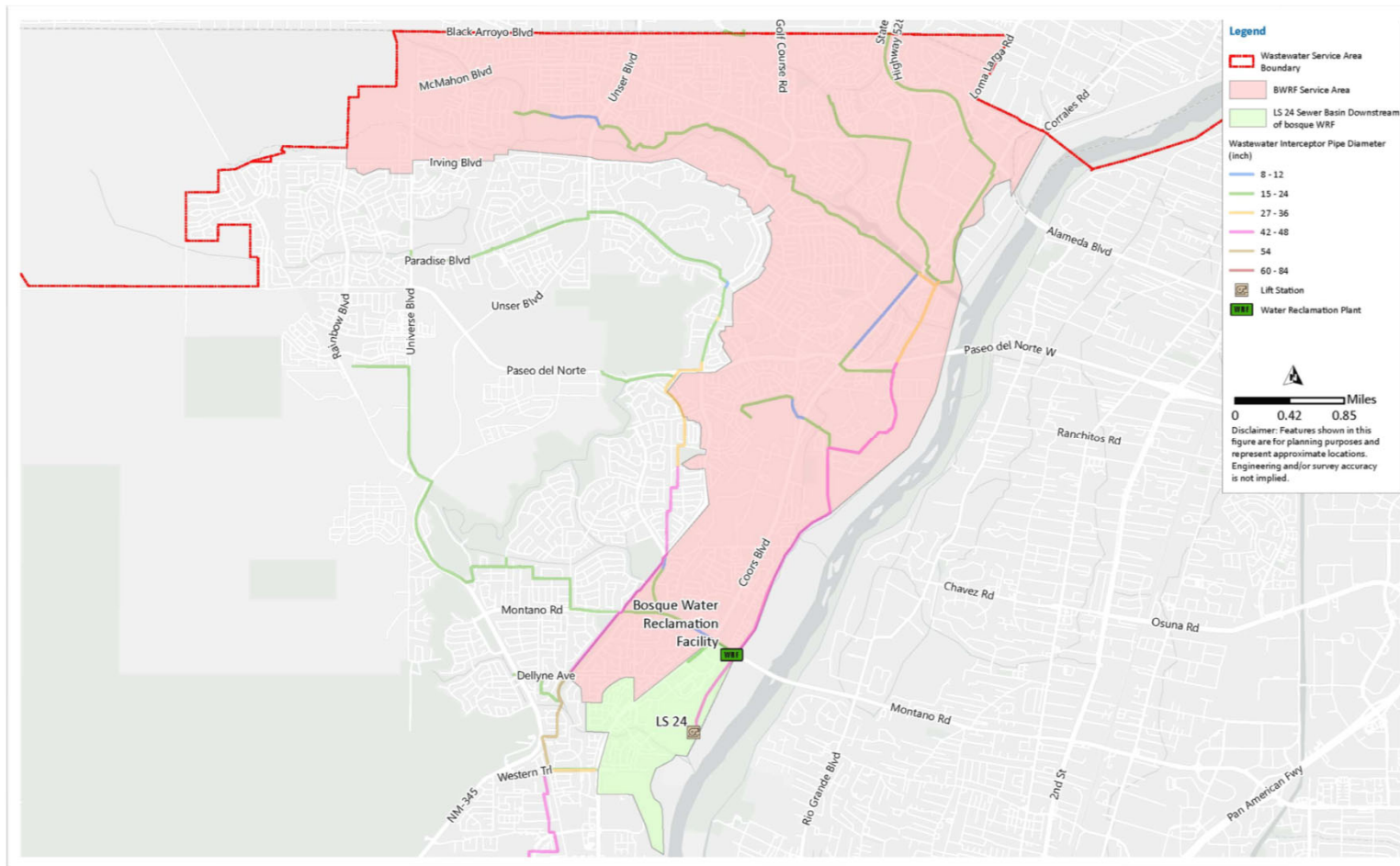
Project No. 02633.00

May 2026 / DRAFT

carollo



Project Planning Area

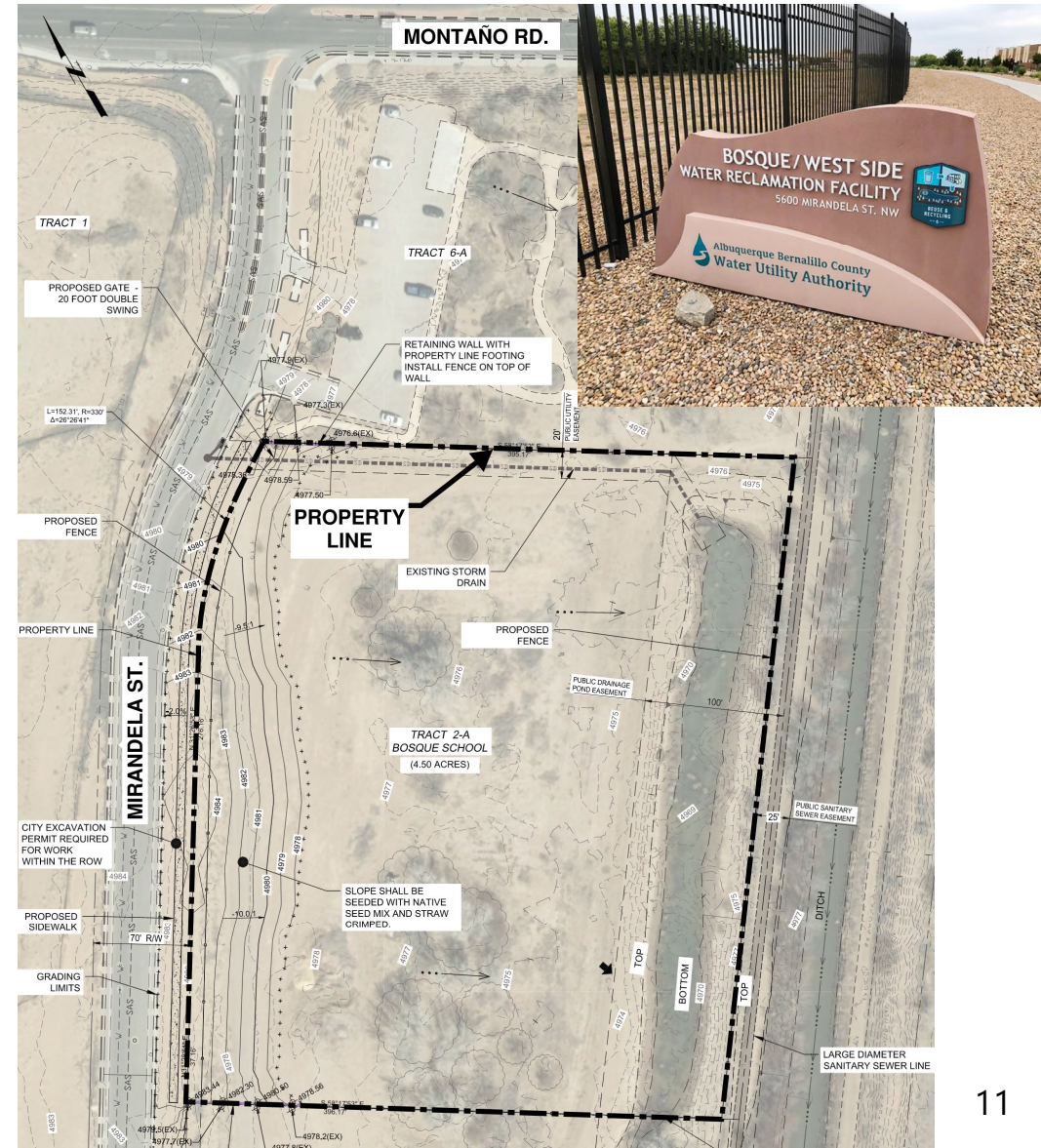


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Existing Facilities

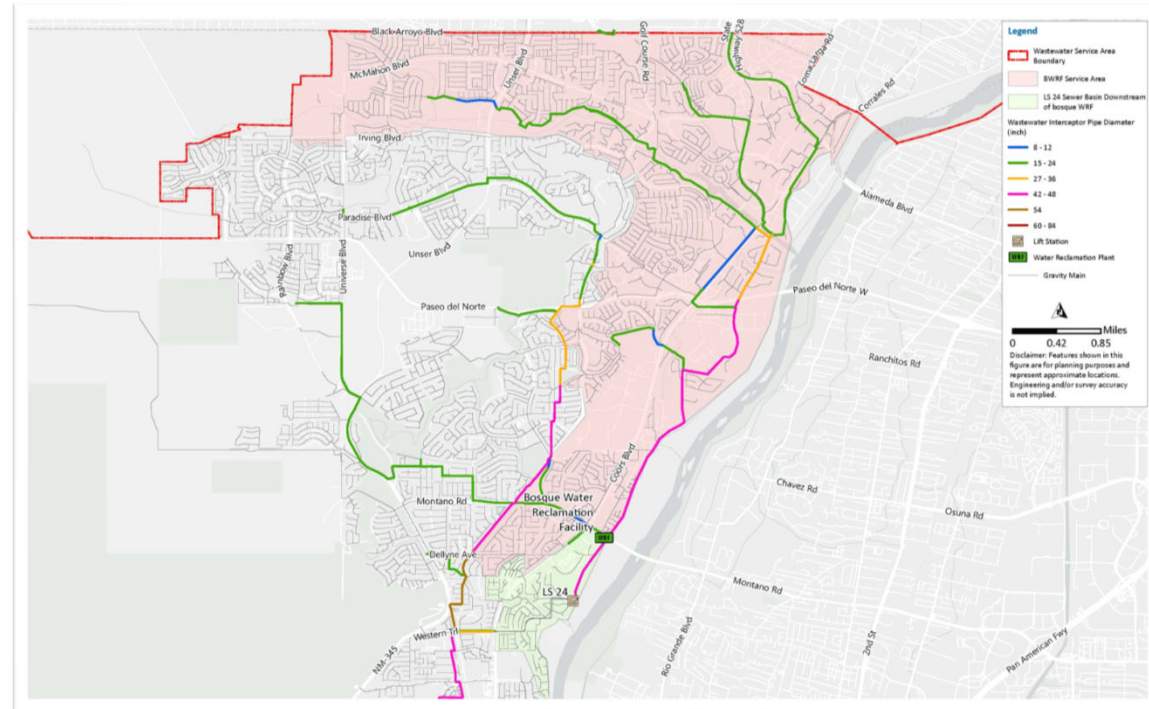
- Physical address of 5600 Mirandela St.
- Property is currently undeveloped, fenced property
- Existing onsite stormwater basin

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Existing Collection System Facilities - Westside

- System consists of existing pipelines and interceptors up to 84-inch that convey flows to the Water Authority's Southside Water Reclamation Plant
- Conveyance relies on key infrastructure including Lift Station 24



Evaluation and Selection of Alternatives

Water Authority and Design Team evaluated alternatives based on:

- Design Criteria
- Environmental Considerations
- Land Requirements
- Constructability Consideration
- Sustainability Consideration
- Cost Estimate, O&M, and Life Cycle Cost Analysis
- Advantages & Disadvantages



Summary of Alternatives Evaluated

Collection System Alternatives

- Alternative 1 – Upgrade Existing Collection System Infrastructure
- Alternative 2 – Construct Bosque Water Reclamation Facility
- Alternative 3 – No Action

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Alternative 1 – Upgrade Existing Collection System

Replace undersized pipe segments with larger diameter RCP Piping

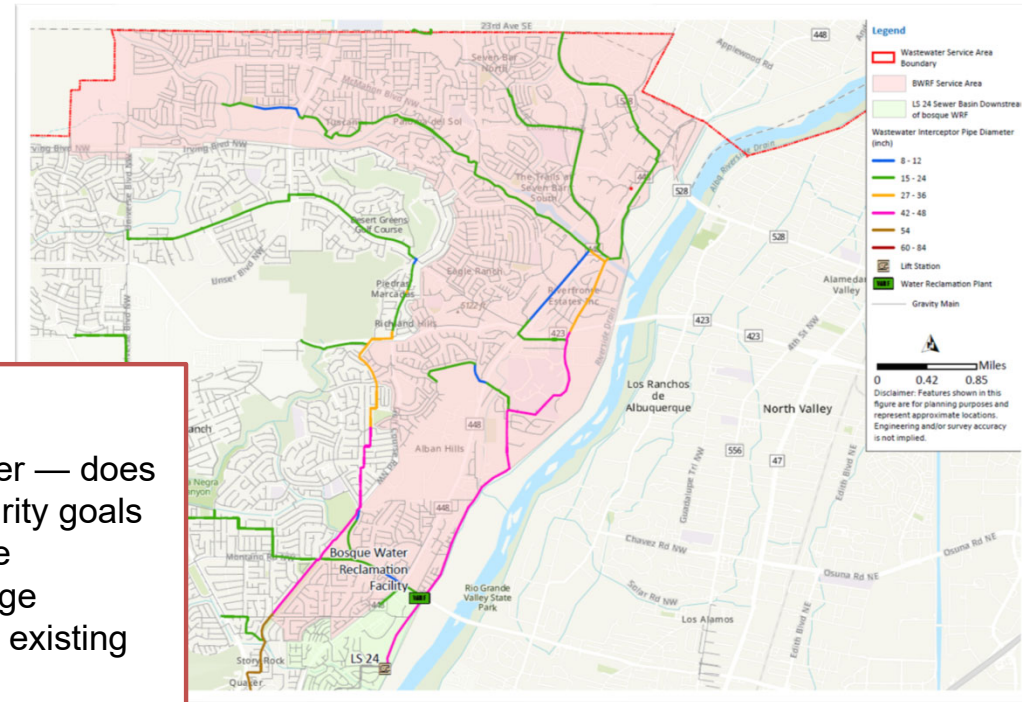
- Total Estimated Project Cost: \$642.6M
- Annual O&M \$1.8M
- 20- year Life Cycle Cost: \$683.9M

Advantages:

- ✓ Addresses capacity concerns within the Westside collection system
- ✓ Minimal O&M requirements — few mechanical components
- ✓ Complies with regulatory requirements
- ✓ Satisfies public and environmental concerns

Disadvantages:

- ✓ Provides no reuse water — does not support water security goals
- ✓ Complex and extensive construction across large geographic area within existing developments
- ✓ Public disruption to major traffic corridors
- ✓ Higher lifecycle cost than Alternative 2 — \$683.9M vs. \$547.4M



Alternative 2 – Construct Bosque Water Reclamation Facility

Construct 10 mgd MBR-based facility upstream of LS 24, Phase 1: 5 mgd treating flows from Corrales Interceptor

- Total Estimated Project Cost (Phase 1): \$351.2 M
- Annual O&M: \$8.5M
- 20- year Life Cycle Cost: \$547.4M

Advantages:

- ✓ Addresses collection system surcharging and meets future capacity demands
- ✓ Provides Class 1A reuse water — directly supports Water 2120 water security goals
- ✓ Simpler construction with fewer public impacts; avoids disruption to major traffic corridors
- ✓ Relieves treatment loads at SWRP and reduces pumping costs for reclaimed water
- ✓ Complies with applicable regulatory requirements

Disadvantages:

- ✓ Requires new staffing for facility operations and ongoing maintenance



Alt 3 – No Action

No Action is not technically feasible — *without system improvements, future flows will exceed collection system capacity and heighten surcharge risk.*

Advantages:

- ✓ No Capital cost Required

Disadvantages:

- ✓ Existing system cannot support future capacity demand
- ✓ Future population growth and anticipated industrial discharge increases will greatly increase interceptor surcharge potential
- ✓ Not in alignment with the Water 2120 Plan and the Water Authority's long-term water security goals



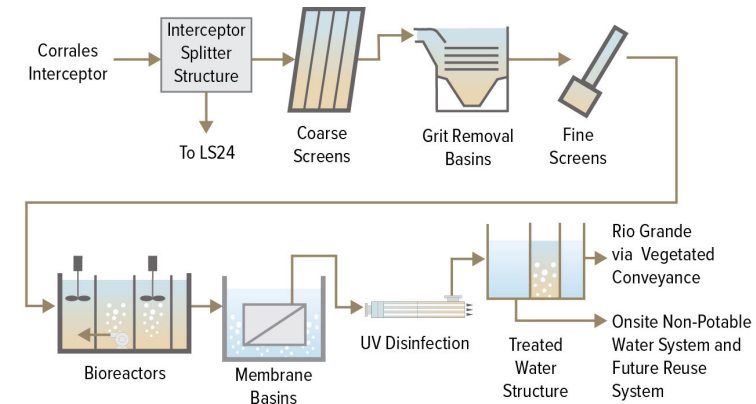
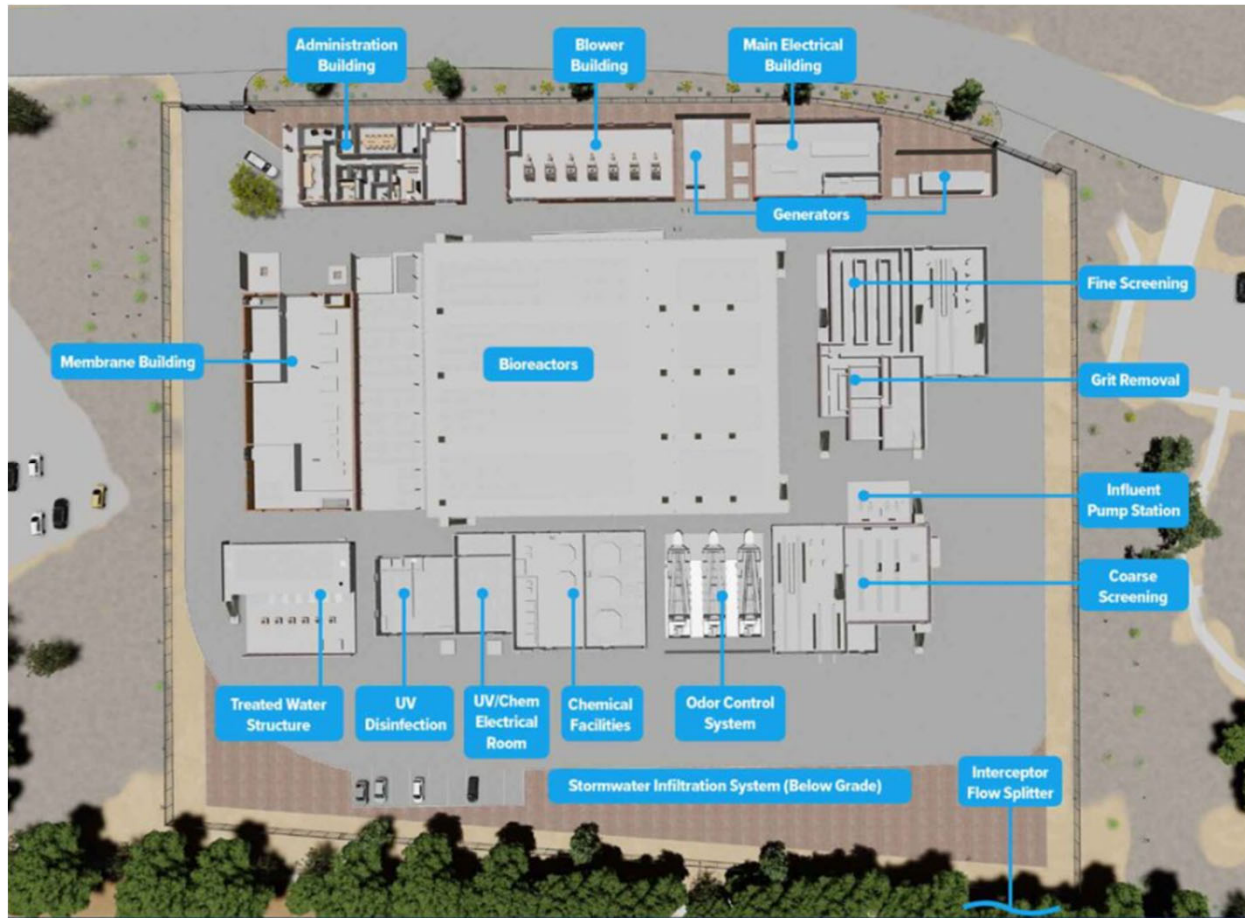
Proposed Project Components

- **Interceptor Flow Split Structure**
 - Convey collection system flow in existing Corrales interceptor to Bosque WRF
- **10 MGD Treatment Facility (initially equipped to 5 mgd)**
 - Membrane Bioreactor technology
 - Maximize treatment capacity in minimal footprint
 - Provide a consistent high-quality effluent
 - Buildings enclosed and tanks covered to provide maximum odor control
- **Treated Water Discharge Infrastructure**
 - Treated water pipe, outfall structure, and vegetated conveyance to Rio Grande



Proposed Project – Bosque WRF

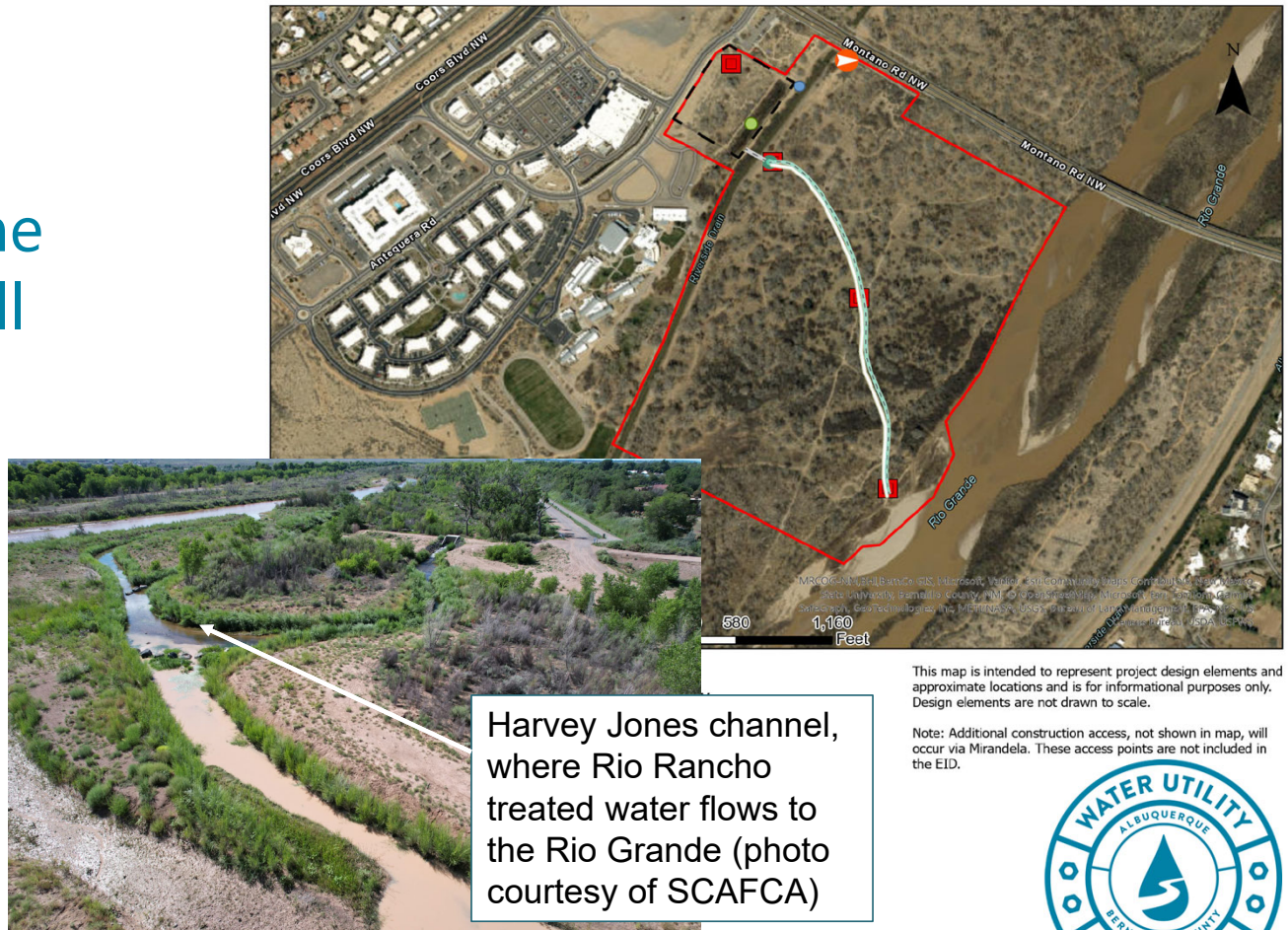
Treatment Facility



Bosque WRF Project Components

Treated water discharge infrastructure

- Treated water pipeline from facility to outfall in bosque
- Vegetated, earthen conveyance channel
- Return flows to Rio Grande



Summary of the Environmental Review Process

- Scoping of Environmental Review
- Coordination and consultation with agencies and tribes
- Analysis of impacts to environmental resources
- Identification of permitting required for project
- Draft Environmental Impact Document (EID)
- Public meeting to present findings of environmental analysis
- Final EID document submitted to NMED



Summary of the Environmental Review Process

Public Scoping: need to define Project Area to be inclusive of all impacts from the Project

- Construction of the Bosque WRF
- Construction of the Interceptor Flow Splitter
- Construction of treated water discharge pipeline and outfall to bosque
- Construction and maintenance of the nature-based, earthen conveyance channel





This map is intended to represent project design elements and approximate locations and is for informational purposes only. Design elements are not drawn to scale.

Note: Additional construction access, not shown in map, will occur via Mirandela. These access points are not included in the EID.

Environmental Review Scope

The EID process evaluates the following major environmental resources

1. Environmental Setting
2. Land Use
3. Floodplains
4. Wetlands
5. Water Resources
6. Air Quality
7. Biological Resources
8. Archeological, Cultural, and Historic Resources
9. Socioeconomic/ Environmental Justice
10. Noise
11. Cumulative Impacts



Environmental Review Scope

- **Floodplains** – review of FEMA and City of Albuquerque floodplain maps and regulations.
- **Wetlands** – complete aquatic survey across Project Area to identify jurisdictional wetlands and Waters of the U.S. in the Project Area.
- **Water Resources** – collection and analysis of groundwater data within the Project Area.
- **Air Quality** – review of construction activities with City of Albuquerque air quality regulations to identify permit requirements.
- **Archeological, Cultural, and Historic Resources** – complete field surveys across Project Area and coordinate with State Historic Preservation Office and formal consultation with tribes
- **Biological Resources** – complete field survey of biological resources and coordination with U.S. Fish and Wildlife Service and NM Department of Wildlife.



Overview of Applicable Laws and Regulations

- National Environmental Policy Act (NEPA)
- Archeological and Historic Preservation Act of 1974
- Clean Air Act
- Coastal Barrier Resources Act
- Endangered Species Act
- Environmental Justice Executive Order
- Floodplain Management, Executive Order
- Protection of Wetlands, Executive Order
- Farmland Protection Policy Act
- Fish and Wildlife Coordination Act
- National Historic Preservation Act
- Safe Drinking Water Act
- New Mexico Administrative Code for ground water and surface water resources
- City of Albuquerque Planning Ordinances and Codes
- Bernalillo County Planning Ordinances and Codes



CONSULTATION, COORDINATION, AND PUBLIC INVOLVEMENT

- Department of Interior, National Park Service
- Department of Interior, Fish and Wildlife Service
- U.S. Army Corps of Engineers
- U.S. Department of Agriculture
- EPA, Region VI, Air Planning Section
- EPA, Source Water Protection Branch/Groundwater Section
- Federal Emergency Management Agency (FEMA)
- New Mexico Department of Cultural Affairs
- New Mexico Game and Fish
- NMED Surface Water Quality Bureau
- NMED Ground Water Quality Bureau
- NMED Drinking Water Quality Bureau
- NMED Air Quality Bureau
- Tribes and Pueblos
- NMED Solid Waste Bureau
- NM Office of the State Engineer
- NM Department of Transportation
- NM Department of Agriculture
- Middle Rio Grande Conservancy District
- City Councilor Stephanie Telles
- County Commissioner Barbara Baca
- Albuquerque Metropolitan Arroyo Flood Control District
- City of Albuquerque, Planning Dept
- Bosque School



Review of Project Schedule and Milestones

Design Milestones*

- | | |
|-----------------------------------|--------------------------|
| • 30% Design | Completed September 2025 |
| • 60% Interim Design | Completed July 2026 |
| • Launch Public Outreach Campaign | September 1, 2026 |
| • 90% Design & Agency Review | March 2027 |
| • 100% Design | August 2027 |

Construction Milestones*

- | | |
|-----------------------------------|----------------------------|
| • Construction Notice to Proceed | November 2027 |
| • Below Grade Site Work | November 2027 - May 2029 |
| • Above Grade Construction | June 2029 - October 2030 |
| • Facility Commissioning/Start-up | November 2030 - March 2031 |

* Design Schedule and Construction NTP subject to change depending upon regulatory approval process



Public Question, Answer & Comment

Additional public input (comments and questions) on the EID scope will be accepted after the meeting until **October 1, 2026**. To share comments and questions:

Mail

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Phone

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Email

rstone@abcwua.org



To submit comments
or to receive updates
on the project,
**please click here
or scan with your
smartphone**

