



## Conestoga-Rovers & Associates Project Summary

### KEY PROJECT ELEMENTS

- Treatment Plant Rehabilitation
- Treatment Plant Operation
- Value Engineering
- Highest Possible Rating on a Federal Government Performance Review

## NOGALES WATER TREATMENT PLANT RIO RICO, ARIZONA



CLIENT: INTERNATIONAL BOUNDARY  
WATER COMMISSION  
DURATION: APR 2001 – FEB 2002  
COST: \$1.18 MILLION

CRA was retained by the International Boundary Water Commission (IBWC) to complete a traveling bridge sand filter rehabilitation project at the Nogales International Wastewater Treatment Plant in Rio Rico, Arizona. This facility provides sewage treatment primarily for the city of Nogales, Arizona, and its sister city, Nogales, Mexico.

The scope of work for this project included the rehabilitation of five traveling bridge sand filters at a wastewater treatment facility. Work activities included the following:

- Removal of existing treatment media and sludge (650 tons)
- Removal of Original Equipment Manufacturer (OEM) media support system (7520 square feet)
- Removal of 15 existing pumps and related piping
- Repairs to existing fiberglass cell dividers
- Modifications to existing skimmer hoods
- Value Engineering and installation of US Filter Gravisand™ system
- Installation of 15 new pumps and related piping
- Installation of new backwash shoe assembly at each of the five filters
- Placement of over 750 tons of new silica sand media
- Replacement of control panels with new PLC - based control panels
- New Festoon cable system at each of the five filters
- Start-up and commissioning of the new US Filter- based system

In addition to completing the work in a timely manner, CRA received the highest possible rating (A) on the contractor performance review by the IBWC's Contracting Officer Representative (COR).

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