



NORTH AMERICAN DEVELOPMENT BANK

## PROJECT CLOSEOUT FACT SHEET

Project:	Construction of a Wastewater Treatment Plant		
Location:	Somerton, Arizona	Certification Date:	June 19, 2003
Type:	Wastewater	Operation Startup:	June 30, 2009
Population Benefitted:	7,905	Closeout Date:	May 2021

### Pre-project Conditions

The existing wastewater treatment facility with an average capacity of 0.6 million gallon per day (mgd) did not provide adequate treatment to flows generated by the city of Somerton and was unable to meet Arizona Pollutant Discharge Elimination System (AZPDES) permit requirements consistently. Between January 1998 and July 2001, there were 12 AZPDES permit violations relative to concentrations of biochemical oxygen demand (BOD<sub>5</sub>) and total suspended solids (TSS) in the facility's effluent. Discharge permit violations resulted in several actions taken by the Arizona Department of Environmental Quality (ADEQ) against the City of Somerton, including notices of violation, orders for compliance, and a consent agreement.

### Project Objective

Address human health and environmental concerns by providing improved wastewater treatment in compliance with current state standards. Eliminate seepage of approximately 30,000 gallons per day (gpd) from the lagoons into the groundwater.

### Project Scope

The project consisted of constructing a sequencing batch reactor (SBR) wastewater treatment plant (WWTP) with a total capacity of 0.8 mgd, to replace the existing lagoon system.



## Project Results

Outputs	Indicator	Target in 2003 (at certification)	Actual (2010)
SBR wastewater treatment plant	Gallons per day	800,000	800,000

Outcomes	Indicator	Target in 2003 (at certification)	Actual (2010)
Wastewater discharges eliminated	Gallons per day	300,000	300,000
Institutional capacity strengthened	Compliance with applicable norms and regulations	100%	100%

### Significant Contribution of the Project

The new plant improved effluent discharges to the Yuma Drain Canal and the underlying groundwater aquifer by reducing the levels of BOD<sub>5</sub>, TSS and total nitrogen.

## Project Financing (USD)

Sources of Funding	Estimated	Actual
NADB BEIF construction assistance grant*	\$ 3,139,960	\$ 3,139,960
NADB BEIF transition assistance grant**	834,332	802,320
Other sources***	2,232,000	2,232,000
<b>Total</b>	<b>\$ 6,206,292</b>	<b>\$ 6,174,280</b>

\* Border Environment Infrastructure Fund (BEIF) funded by the U.S. Environmental Protection Agency (EPA) and administered by NADB

\*\* BEIF transition assistance is used to help pay system debt associated with the project, so that user fees can be raised gradually to the level required to make the system self-sustaining.

\*\*\* Other sources include a loan through the Water Infrastructure Finance Authority (WIFA) and equity from the City of Somerton.