NORTH AMERICAN DEVELOPMENT BANK

PROJECT CLOSEOUT FACT SHEET

Project:	Improvements and Expansion of the Water Supply and Wastewater Systems		
Location:	Roma, Texas	Certification Date:	September 30, 1999
Type:	Water and wastewater	Operation Startup:	August 12, 2009
Population Benefitted:	21,000	Closeout Date:	October 2020

Pre-project Conditions

Water service was available to all of city residents, although inadequate supply and pressure made the service less than reliable. The water system lacked sufficient treatment, storage and distribution capacity and failed to meet several state design criteria. The water treatment plant had a capacity of 1.50 million gallons per day (mgd). In addition, the city was cited for numerous monthly violations of total trihalomethane (TTHM) concentrations in finished water. Only about 30% of the city was connected to the wastewater collection system, while the remainder used substandard septic tanks or cesspools to dispose of their wastewater. These facilities posed a significant health risk to the community since most were built on undersized lots or areas with soil conditions unsuitable for septic systems. The existing treatment capacity at the wastewater treatment plant was 0.360 mgd, and it was operating at or near capacity. The facility was cited by the state environmental agency for failing to meet the minimum design standard for treatment capacity.

Project Objective

Improve the existing water system to provide adequate production, storage, and water quality in compliance with regulatory requirements. Improve the wastewater system to comply with regulatory requirements and expand it to address unserved areas, and thus eliminate risks for groundwater contamination and human exposure to untreated discharges.

Project Scope

Water system improvements consisted of installing 7,000 linear feet (lf) of 6” pipe, 26,800 lf of 8” pipe, 3,500 lf of 10” pipe and 15,300 lf of 12” pipe; building a 200,000-gallon elevated storage tank; improving a booster station and increasing treatment capacity to 5.15 mgd. Wastewater system improvements consisted of installing 240,660 lf of 6” sewer pipe, 99,800 lf of 8” sewer pipe, 8,610 lf of 10” sewer pipe, 5,650 lf of 12” sewer pipe, 4,130 lf of 15” sewer pipe and 700 lf of 18” sewer pipe; improving 22 lift stations and installing 96,900 lf of 3” to 20” force mains, and installing 3,688 new sewer connections, as well as increasing wastewater treatment capacity to 2.36 mgd in two phases, each of which would add 1.0 mgd.

Project Results

Output Indicators	Unit	Target in 1999 (certification)	Actual (2010)
Drinking Water System			
New or improved water treatment capacity	Million gallons a day (mgd)	3.65	3.65
Water distribution lines installed	Linear feet	52,600	237,600
New storage tanks	Number	1	1
New water storage capacity	Gallons	200,000	300,000
Wastewater System			
New or improved wastewater treatment capacity	mgd	2.00	2.00
Wastewater collection lines installed	Linear feet	456,450	475,200
New or improved wastewater lift stations	Number	22	22
Wastewater connections installed	Number	3,688	2,764

Following certification, the sponsor obtained additional funding from other sources and was able to expand the project scope to include additional water distribution and wastewater collection lines.

Outcome Indicators	Unit	Target in 1999 (certification)	Actual (2010)
Additional water treated	Million gallons per day (mgd)	3.65	3.65
New or improved water connections	Number	5,190	5,190
New or improved wastewater connections	Number	3,688	2,764
Additional wastewater treated	mgd	2.00	2.00

Upon construction completion in 2010, the sponsor reported 2,764 sewer connections had been installed, increasing service coverage from 29% to 81% of the 5,300 households. However, during a site visit in 2016, the sponsor reported having 5,751 sewer connections, surpassing the total number targeted at certification and increasing service coverage to 97%.

Project Financing
(USD)

Sources of Funding	Estimated at certification	Actual Amount
NADB BEIF construction assistance grant*	$ 4,207,900	$ 3,610,001
NADB BEIF transition assistance grant**	1,364,550	1,364,550
Other sources***	29,969,740	39,017,375
Total	$ 35,542,190	$ 43,991,926

* 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 loans and grants from the Texas Water Development Board (TWDB), as well as grants from the U.S. Department of Agriculture Rural Development (USDA-RD) and the Texas Department of Housing and Community Affairs.