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Water & Environment Sector PROJECT PROFILE

Water & Wastewater Infrastructure

February 2011



Staff performing site sewer survey in Jerash to develop wastewater masterplan.

BACKGROUND

Water system coverage in the Kingdom of Jordan is comprehensive however water supplies are not always constant and excessive water system losses contribute to supply issues. Sewer systems and wastewater treatment plants (WWTPs) require expansion and upgrades to meet the demands of population growth and to allow for the beneficial reuse of wastewater for agricultural purposes.

In order to sustain improvements to water system infrastructure, water system managers – the Water Authority of Jordan (WAJ), the Aqaba Water Company and Miyahuna – must be well-positioned to respond to the vital needs of the Jordanian water sector now and well into the future.

The Water and Wastewater Infrastructure Project (WIP) seeks to improve utilization of limited water resources for the next 25 years by:

1. Delivering critically needed water infrastructure in priority locations
2. Providing training and capacity building to the WAJ and Jordanian water companies in order to support the water sector's development and execution of a comprehensive and responsive water strategy

ACTIVITIES

- Preparing water and wastewater master plans, implementing feasibility studies and studying cost recovery opportunities to plan new facilities
- Selecting sites for new water and wastewater facilities and designing water and wastewater facilities that meet all Jordanian standards, including effluent reuse standards
- Incorporating selected water sector agency staff from WAJ and Jordanian water companies into the project's on-the-job training activities to improve staffs' capacity and readiness to effectively and sustainably operate new water and wastewater infrastructure facilities
- Providing quality deliverables and designs
- Supporting quality construction, testing and start-up of new and upgraded water and wastewater facilities

PROJECT SNAPSHOT

Implemented by: CDM International Inc.

Duration: 2010 – 2015

Total Funding: \$34.1 million

Beneficiaries: Communities across Jordan

Geographic Coverage: Amman, Zarqa, Aqaba, Ma'an, Tafilah, and Jerash



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FROM THE AMERICAN PEOPLE



The existing Tafilah Wastewater Treatment Plant, viewed here, will be upgraded with USAID funding.

PROGRESS & ACHIEVEMENTS

- Established master training schedule and began formal training of WAJ and Miyahuna staff
- Acquired detailed information for water and wastewater systems through comprehensive and ongoing data collection
- Completed the Jerash Wastewater Hydraulic Model
- Completed the Jerash Area Geographic Information System (GIS)
- Presented WIP Technical Memoranda to Miyahuna regarding Population and Flow Forecasts

PARTNERS

- CDM International Inc.
- Ministry of Water and Irrigation
- Water Authority of Jordan
- Ministry of Environment
- Miyahuna
- Aqaba Water Company
- Hatch Mott MacDonald
- Consolidated Consultants for Engineering and Environment
- Consulting Engineering Center
- Training Resources Group
- Cardno Emerging Markets USA, Ltd.
- Al Mehwar Land Survey Office

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