

EXECUTIVE PROFILE

WATER RESOURCES EXPERIENCE

Mr. Delgado's experience in Water Resources includes working for the Coachella Valley Water District Sanitation and Waste Water Treatment Division (Associate Civil Engineer) and he also worked as a Chief Engineer for the Indian Wells Valley Water District.

His experience includes the Planning, Design, and Construction Management for Waste Water Treatment, Domestic Water, Water Quality and Distribution Systems. In addition, his experience includes the permit preparation for WQMP, NPDES and Recycled Water with the Department Health Services.

Mr. Delgado's experience in the Water, Waste Water Treatment and Recycled Water Systems includes the following projects:

DOMESTIC WATER SYSTEMS

As a Chief Engineer working for the Indian Wells Valley Water District, Mr. Delgado performed the following projects:

- Norma Avenue Pipeline (2,600'- 12" DI pipeline)
- Kendal Street Pipeline (3,000- 12" DI pipeline)
- Well No. 9A
- Well No. 34 (Design & construction management for a production well)
- South West Well Field (Monitoring groundwater recharging system)
- Groundwater Recharge Pilot Program
- Monitoring Wells (Water quality Reports)
- Vulnerability Assessment & Arsenic Treatment
- Hydrogeology Studies for the Water District Basin.
- Water Supply Enhancement & Water Management Plan Reports
- Reservoir Capacity Studies
- Hydraulic Water Systems Modeling (10,000 connections)



Mr. Manuel A. Delgado, P.E., C.S.E.



WASTE WATER TREATMENT:

- Mechanical Upgrade: Increased treatment plant capacity from 13.2 to 18.5 MGD, Construction Cost = \$ 4.5 M,)
- Head-works Improvements:
Chemical Odor Scrubbers: air system & L.S. 80-03 improvements, 12,000 cfm chemical odor scrubber, (Construction cost = \$ 500,000)
- Equalization Reservoirs: 140 K Cu.Yd. Grading for percolation ponds and 2 MG storage reservoirs for secondary & Tertiary Treated Water (Const. cost = \$ 1.3 millions)
- Aeration Tank Expansions: Water Reclamation Plant No. 7, Aeration Basin Phase 3 Expansion (Construction cost = \$ 4.1 millions)
- Thermal Force Main: (RR, Caltrans and County permits) (Construction Cost = \$ 300,000)
- Gerald Ford Sewer (Const. Cost = \$ 300,000)
- Parallel Sewer replacement along Fred Warring Drive, (Construction Cost = \$ 95,000)
- Vintage Club Lift Stations Upgrade, including coating, electrical & telemetry (Construction cost = \$ 110,000)
- WRP 10 Sewer Force Main to WRP 9 and Lift Station 80-17 w/ biofilter (Construction cost = \$ 3.1 million)
- Repairs of Lift Stations No. 55-01 & 81-05 (Construction cost = \$ 80,000)



RECYCLED WATER TREATMENT & DISTRIBUTION

- Tertiary Filter Media Replacement(Construction cost = \$ 90,000)
- Tertiary Filter Improvements: Tertiary Filter Actuators replacement and Chemical Building, (Elect. & Mech. Modif). (Const. cost = \$ 490,000)
- Tertiary Filter Expansion: 20 MGD Pump Station, and 5 MG Recycled Water Storage (Construction Cost = \$ 9.5 millions.)
- Recycled Water Reservoirs (Construction Cost = \$ 1.7 millions)
- LACSD, California UV Disinfection/RW Pump Station & Pipeline (Construction cost = \$ 7.5 & 1.5 millions) (2009 ASCE Award)



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