Date:
December 5, 2008

Applicant:
U.S. Bureau of Reclamation – Yuma Area Office

Project Name:
U.S. Bureau of Reclamation - Level Monitoring Wells Project WDID No. 7B133018001

Receiving Water:
Colorado River

Location:
Site 1: A-7 backwater is located along the Colorado River's Palo Verde Division, at River Miles a120.3 and a118.7. Sections 21 and 28, T. 3 N., R. 22 W. (Long: 114° 32' 19.30"W Lat: 33° 35' 32.77"N)

Site 2: A-10 backwater is located along the Colorado River's Palo Verde Division, at River Miles a115.2 and a114.7. Sections 8 and 17, T. 2 N., R. 22 W. (Long:114° 33' 07.72"W Lat:33° 30' 05.44"N)

Site 3: C-5 backwater is located along the Colorado River's Palo Verde Division, at River Miles c118.9 and c117.3, Section 14, T. 7 S., R. 22 W. (Long: 114° 32' 19.89"W Lat: 33° 34' 23.22"N)

Site 4: C-10 backwater located along the Colorado River's Palo Verde Division, at River Miles c109.1 and c110.6. Sections 26 and 35, T. 2. N., R. 23 E. (Long: 114° 35' 58.36"W Lat: 33° 29' 08.02"N)

Project Description:
Reclamation proposes to install level monitoring wells (wells) in four backwater sites in order to measure water flow through permeable structures. Installation of the wells will consist of placing 3-inch diameter polyvinyl chloride (PVC) pipe along the mid section of the bankline, running down to the toe of the bank. In areas where the outlet area is open, the monitoring well would be placed directly in the water, along the shoreline. Once wells (PVC pipes) are installed, level monitors will be inserted inside the PVC pipes. Monitoring wells will enable the collection of river flow and elevation data that will be used to evaluate and assess the functionality of existing inlet and outlet backwater structures. Reclamation will collect data periodically and use this information to determine a future course of action regarding proposed improvements to the flow through structures.

In order to install the wells, a total of 4 cubic yards of riprap material will be removed (per site) from the existing armored bankline (permeable structure) from both the river and the backwater side. Once the PVC pipe is placed along the side of the permeable structure, 4 cubic yards per site will be used as fill to cover the PVC. All total approximately 25 cubic yards of material will be removed from the sites in order to install wells and same amount of material will be used as backfill. This action is expected to take 2 weeks to complete the installation of the wells. A total of 14 wells will be installed. Equipment used in this operation will be an excavator (long reach) to remove material and for backfilling. This equipment will operate along the top of the bankline road.

Action:
Pending

Water Board Contact:
Jay Mirpour, Water Resources Control Engineer
(760) 776-8981
jmirpour@waterboards.ca.gov