

MUNRO SOLVES THREE PROBLEMS FOR ARIZONA CITY

Problem

- The City of Surprise, AZ, pumps water from a pond for roadside irrigation. The irrigation system provides water to roughly 6 miles of roadway, including shoulders and medians. The pond contains canal water that is infested by mussels and snails, making it difficult to pump water without clogging the irrigation system piping.
- The irrigation system had a high flow and pressure demand that was not being met by the existing design.
- The city needed a replacement pump station that would be designed to meet specific requirements, including fit to an existing pump enclosure.



Invasive species of mussels and snails taking over pipe and filtration.

Munro was asked to supply a pump station that would assist in removing solids, mussels and snails from the water, would fit into an existing structure in place of an existing pumping station, while also meeting high flow and pressure demands.

Solution

- Munro designed a pump station to meet the city's requirements, which included fitting the replacement pump station to an existing pump enclosure.
- Extremely fine filters were provided in order to keep the water clean and free of mussels and snails.
- New plumbing was installed in order to meet all flow and pressure specifications.



Irrigation pond used for roadside irrigation system.



Flow and pressure restored to sprinkler system.

OUTCOME

Use of Munro stations has led to an overall more reliable pumping system by:

- Saving time and labor by installing self-cleaning filters.
- Providing an extremely tight pumping station that accommodates reuse of the infrastructure from the prior pump station, making operation smooth and efficient.
- Reducing overall water usage, as there is no water loss from unreliable plumbing.

**Implementing a Munro pump station costs less than you think, and will save time and money.
To get one customized to your needs, contact us today!**