

# The proven science behind the range.

In 2008 RNT Consulting Inc. was commissioned by U.S. Bureau of Reclamation (USBR) to conduct a scientific testing on the removal of Quagga mussel veligers from Lake Havasu. The test, conducted independent of Filtersafe®, specifically looked at the MSF-series' ability to remove veligers from the <200 micron range, preventing the bio-fouling epidemic affecting the region.

## Test Aim

Ready to settle veligers were in the 250 to 450 size range. In order to provide protection for the downstream piping and components, the filters would need to remove all veligers greater than 250 microns.

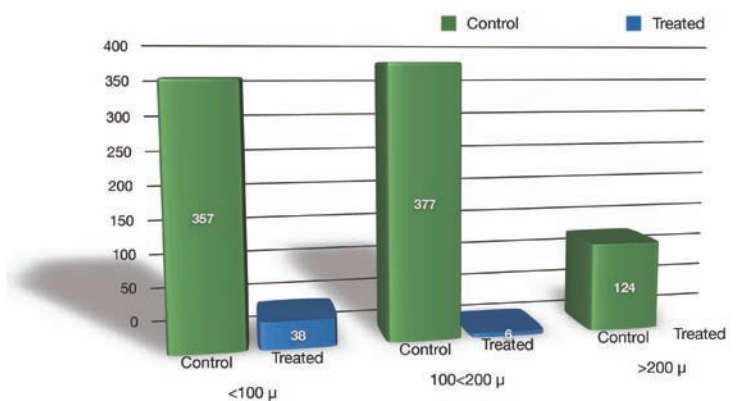
## Test Methodology

Veligers measured in 3 brackets;

- >100 micron, 100>200 micron & >200 micron.
- 25 sample sets taken over the course of 4 days.
- Pre-filtration: Control, Post-filtration: Treated.

*"The live adults would represent a serious fouling threat to downstream piping if the filter had not been installed."* RNT Consulting Inc.

## Overall 40 micron filtration tests Lake Havasu



## Conclusion

Based on veligers of size > 200 microns, **40 micron filter had 100% exclusion.**

Based on veligers of size > 100 microns **40 micron filter had 99.5% exclusion.**

Even in the 0 to 100 micron range, **the filter achieved 89% exclusion.**

