

Bio-Analytical Laboratories (BAL)
ADEQ Certificate #88-0630
Project X6168

Bio-Analytical Laboratories' Executive Summary

Permittee: Magnolia Wastewater System
P.O. Box 666
Magnolia, AR 71753

Project #: X6168

Outfall: 001 (treated municipal wastewater)

Permit #: AR0043613/ AFIN #14-00059

Contact: Russell Thomas

Dates: September 26 - October 4, 2016

Test Type: Chronic Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia* (EPA Method 1002.0)
Chronic Static Renewal Survival and Growth Test using *Pimephales promelas* (EPA Method 1000.0)

Results:

For *Ceriodaphnia dubia*:

1. If the NOEC for survival is less than the critical dilution (100.0%), enter a "1"; otherwise, enter a "0" for Parameter TLP3B - 0 -Pass ✓
2. If the NOEC for reproduction is less than the critical dilution (80.0%), enter a "1"; otherwise, enter a "0" for Parameter TGP3B - 0 - Pass ✓
3. Report the NOEC value for survival, Parameter TOP3B - 100.0%. ✓
4. Report the NOEC value for reproduction, Parameter TPP3B - 100.0%. ✓
5. Report the largest % coefficient of variation between the control and the critical dilution, Parameter TQP3B - 22.17%. ✓

For *Pimephales promelas*:

1. If the NOEC for survival is less than the critical dilution (100.0%), enter a "1"; otherwise, enter a "0" for Parameter TLP6C - 0 -Pass ✓
2. If the NOEC for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter TGP6C - 0 -Pass ✓
3. Report the NOEC value for survival, Parameter TOP6C - 100.0%. ✓
4. Report the NOEC value for growth, Parameter TPP6C - 100.0%. ✓
5. Report the largest % coefficient of variation between the control and the critical dilution, Parameter TQP6C - 18.72%.

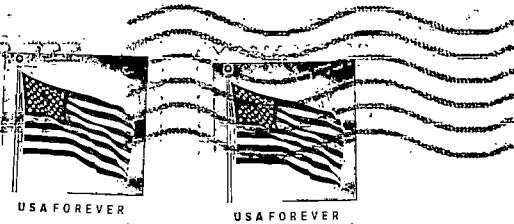
*Note: The PMSD biomass endpoint for the minnow test was 35.0%. This was probably due to the fact that a higher mean weight was achieved in the effluent than in the control.

This report contains a total of 51 pages, including this page. The results contained within pertains only to the samples listed on the chain of custody documents in Appendix A. The information meets the standards set forth by ADEQ. The chemical data in this report is for monitoring purposes only and should not be reported on discharge monitoring reports.

City of Magnolia Big Creek - WWTP
P.O. Box 666
Magnolia, AR 71754-0666
NPDES Permit No. AR0043613
AFIN No. 14-00059

LITTLE ROCK AR 722

24 OCT 2015 PM



ADEQ
Water Division
NPDES Enforcement Section
5301 North Shore Drive
North Little Rock, AR 72118-5317

72118-531799

