

Wiley  
Barnett

Bio-Analytical Laboratories (BAL)  
ADEQ Certificate #88-0630  
Project X5914

**Bio-Analytical Laboratories' Executive Summary**

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

**Project #:** X5914

**Outfall:** 001 (treated municipal wastewater)

**Permit #:** AR0043613/ AFIN #14-00059

**Contact:** Russell Thomas

**Dates:** December 14 - 22, 2015

**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, 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 - 20.41%.

**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 reproduction, Parameter TPP6C - 100.0%.
5. Report the largest % coefficient of variation between the control and the critical dilution, Parameter TQP6C - 16.31%.

This report contains a total of 44 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  
Permit # AR0043613  
AFIN # 1400059

ADEQ  
Water Division  
NPDES Enforcement Section  
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