

Jacobs
ATTN: Ms. Donna McChristian
1400 North Fox Hunter Road
Fayetteville, AR 72701

Re: 7-day Renewal *Pimephales promelas* (Fathead minnow) and *Ceriodaphnia dubia*
Noland WR001 - Paul R. Noland WWTP
NPDES Permit No. AR0020010 AFIN 72-00781

Dear Ms. Donna McChristian:

This report is the analytical results and supporting information for the samples submitted to American Interplex Corporation (AIC). The following results are applicable only to the sample identified by the control number referenced above. Accurate assessment of the data requires access to the entire document. Each section of the report has been reviewed and approved by the Chief Operating Officer or qualified designee.

Testing procedures and Quality Assurance were in accordance with "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013, Fourth Edition, October 2002. Test results are summarized below:

The fathead minnow test concluded an interrupted concentration-response that appears to be related to pathogen interference.

Method 1000.0 Chronic *Pimephales promelas* (Fathead minnow) Survival and Growth Test: The No Observable Effects Concentration (NOEC) for survival occurred at 41 % effluent, which is below the critical dilution of 97 %. The NOEC for growth occurred at 41 % effluent, which is below the critical dilution of 97 %. **The sample, therefore, FAILED both lethal and sub-lethal effects for the Fathead minnow test.**

Method 1002.0 Chronic *Ceriodaphnia dubia* Survival and Reproduction Test: The No Observable Effects Concentration (NOEC) for survival occurred at 97 % effluent, which is equal to the critical dilution of 97 %. The NOEC for reproduction occurred at 73 % effluent, which is below the critical dilution of 97 %. **The sample PASSED lethal effects, however, FAILED sub-lethal effects for the *Ceriodaphnia dubia* test.**

AMERICAN INTERPLEX CORPORATION



John Overbey
Chief Operating Officer

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