

**CITY OF CLINTON**  
**CLINTON WATER AND SEWER DEPARTMENT**  
P.O. BOX 277  
CLINTON, AR 72031  
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William Hinchey, Manager

Richard McCormac, Mayor

July 7, 2020

Gavin Gray  
Enforcement Analyst  
Division of Environmental Quality  
Office of Water Quality  
5301 Northshore Drive  
North Little Rock, AR 72118

Mr. Gray:

The Clinton Water and Sewer Department hired ESC, Inc. to do the testing for the Whole Effluent Toxicity (WET) Limitations for *P. promelas* chronic toxicity limits. Three composite samples of Outfall 001 were collected by ESC personnel on May 4, 6 and 8, 2020, at 0900 hours.

The fathead minnow test results can be found in the following Table. After seven days of exposure, 92.5 percent survival occurred in the control and 95.0 percent survival occurred in the 100.00 percent critical dilution. The average weight gained per minnow in the control and in the 100.0 percent critical dilution was 0.645 milligram (mg), and 0.625 mg, respectively. The NOEC for survival and growth in this test was 100.0 percent effluent (p=.05).


Results of the **Chronic** Definitive Fathead **Minnow Test**

Percent Effluent	Percent Survival	Sig.*	Mean Dry Weight (mg)	Sig.*
Control	92.5		0.645	
32.0	75.0		0.640	
42.0	92.5		0.680	
56.0	95.0		0.678	
75.0	85.0		0.583	
100.0	95.0		0.625	

\*significant when compared to the control (p=.05).

The three composite samples of Outfall 001 collected from the East Wastewater Treatment Facility serving the city of Clinton, Arkansas, on May 4, 6, and 8, 2020, were not found to be lethally toxic to the *Pimephales promelas* test organisms in the 100.0 percent critical dilution after seven days of exposure ( $p=.05$ ). Sub-lethal effects (i.e., lack of reproduction or growth) were not noted in the 100.0 percent critical dilution in either test ( $p=.05$ ).

Sincerely,

A handwritten signature in black ink that reads "Jackie William Hinchey, Jr." The signature is written in a cursive style with a large, prominent "J" at the beginning and a long, sweeping tail at the end.

Jackie William Hinchey, Jr., Manager  
Clinton Water and Sewer Department