



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

WHOLE EFFLUENT TOXICITY (WET) TEST REPORT

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)

PART A – TO BE COMPLETED IN FULL BY PERMITTEE	
FACILITY NAME _____	DATE AND TIME COLLECTED EFFLUENT _____ UPSTREAM _____
PERMIT NUMBER _____	PERMIT OUTFALL NUMBER _____
COLLECTOR'S NAME _____	
RECEIVING STREAM COLLECTION SITE AND DESCRIPTION _____	
PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC) _____	EFFLUENT SAMPLE TYPE (CHECK ONE) <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____
SAMPLE NUMBER EFFLUENT _____ UPSTREAM _____	UPSTREAM SAMPLE TYPE (CHECK ONE) <input type="checkbox"/> 24 HR COMPOSITE <input type="checkbox"/> GRAB <input type="checkbox"/> OTHER _____
PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR CHLORINE _____ mg/L	PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR AMMONIA _____ mg/L

PART B – TO BE COMPLETED IN FULL BY PERFORMING LABORATORY		
PERFORMING LABORATORY _____	TEST TYPE _____	
FINAL REPORT NUMBER _____	TEST DURATION _____	
DATE OF LAST REFERENCE TOXICANT TESTING _____	TEST METHOD _____	
DATE AND TIME SAMPLES RECEIVED AT LABORATORY _____	TEST START DATE AND TIME _____	TEST END DATE AND TIME _____
SAMPLE DECHLORINATED PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input type="checkbox"/> NO EFFLUENT _____ UPSTREAM _____	TEST ORGANISM #1 AND AGE _____	TEST ORGANISM #2 AND AGE _____
SAMPLE FILTERED ¹ PRIOR TO ANALYSIS? <input type="checkbox"/> YES <input type="checkbox"/> NO EFFLUENT _____ UPSTREAM _____	90 PERCENT OR GREATER SURVIVAL IN SYNTHETIC CONTROL? <input type="checkbox"/> YES <input type="checkbox"/> NO	DILUTION WATER USED TO ACHIEVE AEC _____
FILTER MESH SIEVE SIZE 2 _____	EFFLUENT ORGANISM #1 PERCENT MORTALITY AT AEC _____	EFFLUENT ORGANISM #2 PERCENT MORTALITY AT AEC _____
SAMPLE AERATED DURING TESTING? <input type="checkbox"/> YES <input type="checkbox"/> NO	UPSTREAM ORGANISM #1 PERCENT MORTALITY _____	UPSTREAM ORGANISM #2 PERCENT MORTALITY _____
pH ADJUSTED? <input type="checkbox"/> YES <input type="checkbox"/> NO EFFLUENT _____ UPSTREAM _____	TEST RESULT AT AEC FOR ORGANISM #1 <input type="checkbox"/> PASS <input type="checkbox"/> FAIL	TEST RESULT AT AEC FOR ORGANISM #2 <input type="checkbox"/> PASS <input type="checkbox"/> FAIL

PART A – TO BE COMPLETED IN FULL BY PERMITTEE			
PARAMETER	RESULT	METHOD	WHEN ANALYZED
Temperature °C			
pH Standard Units			
Conductance µMohs			
Dissolved Oxygen mg/L			
Total Residual Chlorine mg/L			
Unionized Ammonia mg/L			
* Total Alkalinity mg/L			
* Total Hardness mg/L			

* Recommended by EPA guidance, not a required analysis.

¹ Samples shall only be filtered if indigenous organisms are present that may be confused with, or attack the test organisms.

² Filters shall have a sieve size of 60 microns or greater.

WHOLE EFFLUENT TOXICITY (WET) TEST REPORT (Continued)

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)

MINIMUM REQUIRED ANALYTICAL RESULTS FOR THE 100 PERCENT UPSTREAM SAMPLE³

PARAMETER	RESULT	METHOD	WHEN ANALYZED
Temperature °C			
pH Standard Units			
Conductance µMohs			
Dissolved Oxygen mg/L			
Total Residual Chlorine mg/L			
Unionized Ammonia mg/L			
* Total Alkalinity mg/L			
* Total Hardness mg/L			

* Recommended by EPA guidance, not a required analysis.

PRELIMINARY TEST ACCEPTABILITY MATRIX (FOR USE BY PERMITTEE IN DETERMINING TEST VALIDITY)

MINIMUM REQUIRED ANALYTICAL RESULTS FOR THE 100 PERCENT UPSTREAM SAMPLE³

PERMIT ALLOWABLE EFFLUENT CONCENTRATION, or AEC: As indicated on permit. Test is invalid otherwise.

EFFLUENT SAMPLE TYPE: As indicated on permit. Test is invalid otherwise.

TEST TYPE: Acute Static Non-Renewal Test or other as indicated on permit. Test is invalid otherwise.

TEST DURATION: Forty-eight hours or as indicated on permit. Test is invalid otherwise.

TEST ORGANISMS: As indicated on permit. Test is invalid otherwise.

DILUTION WATER USED TO ACHIEVE AEC: Upstream receiving water required if available.

TEST METHOD: The only acceptable method is the **most current edition** of *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, or other as specifically assigned by EPA for determining National Pollutant Discharge Elimination System, or NPDES, compliance. Test is invalid otherwise.

TEST START DATE AND TIME: Unless otherwise specified in writing by EPA, if >36 hours lapse between collection and initiation, test is invalid.

FILTER MESH SIEVE SIZE: Unless otherwise specified in writing by EPA, if sieve size is smaller than 60 microns, test is invalid.

90 PERCENT OR GREATER SURVIVAL IN LABORATORY CONTROL(S) (Y/N): If no, test is invalid.

PARAMETER	RESULT	NOTES	WHEN ANALYZED
Temperature °C	0 – 6	Unless received by the laboratory on the same day as collected, values outside this range invalidate the test.	Upon receipt.

³ Where no upstream control is available, enter results from laboratory or synthetic control.